Kami Mining Project

Champion Kami Partner Inc.

Wabush, NL

TSD X: Visual Aesthetics Impact Assessment

Environmental Impact Statement

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July 2025

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REPORT

Visual Aesthetics Impact Assessment

Kami Mining Project

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Acronym and Abbreviation List

Acronym or Abbreviation	Description
Alderon	Alderon Iron Ore Corporation
AOC	Areas of Concern
Champion	Champion Iron Limited
DSLR	Digital Single Lens Reflex
DEM	Digital Elevation Model
EA	Environmental Assessment
EIS	Environmental Impact Statement
ELC	Ecological Land Classification
FRI	Forest Resource Inventory
GIS	Geographic Information System
ITUM	Innu Takuaikan Uashat Mak Mani-Utenam
Kami	Kamistiatusset
KM	Kilometres
LSA	Local Study Area
LiDAR	Light Detection and Ranging
LI/IEMA	Landscape Institute, and Institute of Environmental Management and Assessment
NCC	NunatuKavut Community Council
NIMLJ	La Nation Innu Matimekush-Lac John
NL	Newfoundland and Labrador
NLDECC	Newfoundland and Labrador Department of Environment and Climate Change
NNK	Naskapi Nation of Kawawachikamach
Project	Kamistiatusset Iron Ore Mine Project
RFD	Reasonably Foreseeable Developments
ROW	Right of Way
RSA	Regional Study Area
SSA	Site Study Area
TMF	Tailings Management Facilities
USDI BLM	United States Department of the Interior Bureau of Land Management
VAIA	Visual Aesthetics Impact Assessment
VP	Viewpoint
VRM	Visual Resource Management
WSP	WSP Canada Inc.

Executive Summary

The Kamistiatusset (Kami) Iron Ore Mine Project is a proposed iron ore mine located in Labrador, Newfoundland and Labrador, approximately seven kilometres from Wabush, 10 kilometres from Labrador City, and five kilometres east of Ville de Fermont, Québec. The mine is expected to produce eight million tonnes of iron ore concentrate annually, transported by rail to the Pointe Noire port terminal in Ville de Sept-Îles, Québec, for international shipping.

The Environmental Impact Statement (EIS) Guidelines, issued on December 19, 2024, provide direction on visual aesthetics, including scenic outlooks, viewscapes, natural attractions, and the overall visual character of an area (Government of Newfoundland & Labrador, 2024). Champion has commissioned WSP to prepare a Visual Aesthetics Impact Assessment (VAIA) to support its EIS submission.

The EIS visual aesthetics requirements consider:

1) Land and Resource Use: Tourism-generating resources, recreational features, landscapes, viewscapes, and the extent of developed and undeveloped land.

2) Air Quality and Atmospheric Conditions: Impact on visual experiences, including haze or reduced visibility.

3) Effects on Indigenous Communities: Impact on culturally important landscapes and viewscapes.

4) Effects on Biophysical and Human Environment: Visual disturbances affecting scenic and recreational values.

5) Mitigation Measures: Strategies to address visual impacts on landscapes, viewscapes, or other aesthetic features.

6) Environmental Changes: Impact of severe weather or natural hazards on the Project's visual appearance.

This assessment predicts that temporary visual impacts can be minimized with mitigation measures, including dust management, and that the most significant effects will occur during the operations phase. Once the rehabilitation of tailings and stockpiles is complete, the transformed landscape will showcase three vegetated landforms that resemble the nearby hills. It will also include a mix of woodlands, grasslands, and wetlands, enhancing and complementing the existing natural, industrial, and developmental features of the area.

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1.0 INTRODUCTION

The Kamistiatusset (Kami) Iron Ore Mine Project (the Project) is a proposed iron ore mining and milling operation in the province of Newfoundland and Labrador (NL). The Project site is located approximately seven kilometres (km) southwest of the Town of Wabush, ten kms south of the Town of Labrador City, and five kilometres northeast of Ville de Fermont, Québec (Figure 1). The mine operation is expected to produce 8 million tonnes of iron ore concentrate annually, which will be transported by rail to the Pointe Noire port terminal in Ville de Sept-Îles, Québec, for international shipping.

The Project includes construction, operation, maintenance and closure/ of the following components and infrastructure (Figure 1):

- open pit (Rose Pit);
- overburden stockpile and mine rock stockpile;
- concentrator including crushing, grinding, spiral concentration, magnetic separation, and tailings thickening areas;
- tailings management facility (TMF);
- ancillary infrastructure to support the mine and process plant (gate and guardhouse, reclaim water pumphouse, truck wash bay and shop, electrical substation, explosives magazine storage, administration / office buildings, maintenance offices, warehouse area and employee facilities, conveyors, load-out silo, stockpiles, sewage and water treatment units and mobile equipment); and
- a rail transportation component that includes the construction of a spur line to connect the mine site to the Québec North Shore & Labrador Railway.

The Project is expected to be developed over a four-year period. The mine will operate for approximately 26 years. Closure of the site is expected to be 10 years in duration and will be followed by a period of environmental monitoring. The Project Schedule is as follows:

The temporal scope of the assessment focuses on the 40-year period from initial construction to the end of decommissioning and rehabilitation (i.e., closure) as defined by the following Project phases:

- **Construction Phase (referred to as Construction):** includes site preparation, mine, process plant and site infrastructure development, and commissioning the structures, systems, and components. The duration of the Construction Phase is expected to be four years.
- **Operations and Maintenance Phase (referred to as Operations)**: includes the mining and milling of iron ore, production and shipment of iron ore concentrate, tailings management, management of mine rock, waste management, water management, release of treated effluent, site maintenance and transportation of staff and materials to and from the site. The Operations Phase initiates with one year of pre-development mining (i.e., ramp-up) and concludes when processing is complete and is expected to extend over 26 years.
- **Decommissioning and Rehabilitation Phase (referred to as Closure)**: includes accelerated flooding of the Rose Pit, re-establishment of passive surface water drainage following the pit-flooding period, and recontouring and revegetating disturbed areas. Physical infrastructure that is not required during post-closure monitoring and for other activities required to achieve the Project's decommissioning criteria, and to return the Project site to a safe and stable condition, will be removed. The active Closure Phase is expected to be 10 years in length.

The Project was originally proposed by the Alderon Iron Ore Corporation (Alderon) and underwent a provincial and federal environmental impact assessment from 2011 to 2013, including a comprehensive baseline program that was completed in 2011 and 2012. The Project was released from the provincial and federal EA process in 2014. In 2021, Champion Iron Limited (now Kami Iron Mine Partnership), through its subsidiary 12364042 Canada Inc, completed the acquisition of the Project from Alderon. The results and recommended mitigation measures from visual aesthetics assessment on the 2012 Alderon report are discussed in this document. Please refer to Section 9.0 for a comparison of the Alderon EIS and the findings of this VAIA report.

Champion Kami Partner Inc. (Champion) is proposing several changes to the Project design proposed by Alderon through the previous Environmental Impact Statement (EIS). These proposed changes include optimizations to the Project's water management strategy and modernization of the proposed ore handling, conveyance, and processing. Champion's objective for the Kami Mining Project is to produce high purity (>67.5wq%) iron concentrate, which can be used as direct reduction pellet feed for electric arc furnaces in the green steel supply chain.

Champion submitted a Project Registration document to the NL Department of Environment and Climate Change (NLDECC) Environmental Assessment (EA) Division in April 2024 to restart the EA process for the Project. On June 13, 2024, the Minister of NL issued a Decision Letter to Champion concluding that an EIS would be required for the Project.

The EIS Guidelines for the Project, issued December 19, 2024, provide direction regarding visual aesthetics, which encompass the appearance and aesthetic quality of landscapes, including scenic outlooks, viewscapes, natural attractions, and the overall visual character of an area (Government of Newfoundland & Labrador, 2024). These requirements are outlined in various sections of the Guidelines, including:

Section 4 – Description of the Existing Environment

- 4.2.4 Land and Resource Use: The EIS must describe relevant land and resource use within the study area, including tourism-generating resources and recreational features such as scenic lookouts, natural attractions, and multi-use trails, as well as the presence of landscapes and viewscapes, and the extent of developed and undeveloped land.
  - *Accounted for in Section 6.0 Characterization of Existing Environment.*
- 4.3.1 Atmospheric Environment: The EIS must describe how local air quality and atmospheric conditions may impact the visual experiences of the landscape, including the potential effects of haze or reduced visibility of distant views.
  - *Accounted for in Sections 8.2.1 Potential Effects and 8.2.2 Mitigation Measures.*

Section 6 – Environmental Effects Assessment

- 6.1.9 Indigenous Peoples: The EIS must assess potential effects on Indigenous communities, including how the Project could affect culturally important landscapes and viewscapes, where visual changes may alter the experience or significance of those places.
  - *Accounted for in Section 7.0 Engagement Feedback.*

- 6.2 Predicted Environmental Effects: The EIS must describe the predicted effects of the Project on the biophysical and human environment, which includes consideration of potential visual disturbances that could affect scenic and recreational values, particularly in areas used by the public or valued by local communities.
    - *Accounted for in Section 8.0 Effects Assessment.*

Section 7 – Mitigation Measures

- 7.1 Mitigation: The EIS must identify proposed mitigation measures to address potential environmental effects, including those related to visual impacts on landscapes, viewscapes, or other valued aesthetic features.
    - *Accounted for in Section 8.3.5 Mitigation Measures.*

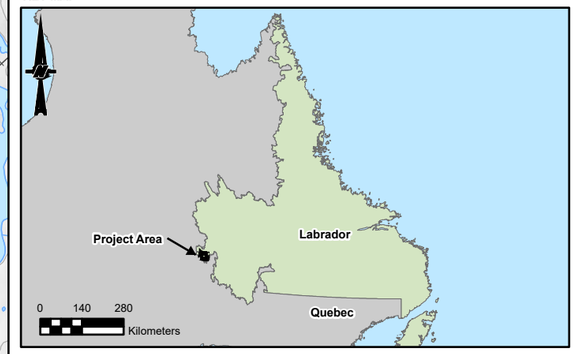
To address these requirements and to support Champion's EIS submission, Champion has commissioned the services of WSP to prepare this Visual Aesthetics Impact Assessment (VAIA).

Beyond fulfilling the EIS requirements, the purpose of the VAIA is to comprehensively evaluate the potential visual aesthetics impacts of the Project on the surrounding landscape and communities by:

1) Identifying and Assessing Visual Impacts: Analyze how the Project may alter the visual environment, including changes to landscapes and viewscapes.
2) Supporting Decision-Making: Provide information to regulators, stakeholders, and Indigenous Rightsholders to facilitate informed decisions regarding the Project's potential visual impacts.
3) Addressing Stakeholder Concerns: Consider feedback from local communities, Indigenous Rightsholders, and other stakeholders who may be affected by changes to the visual environment.
4) Developing Mitigation Measures: Propose strategies to minimize, offset, or manage visual disturbances, such as adjusting Project design, and monitoring and managing reclamation and revegetation activities.

Wabush Lake
Labrador City
Canning Lake
Harrie Lake
Little Wabush Lake
Flora Lake
Knoll Lake
Railway Line
Wabush
Access Road
Vern Lake
Jean Lake
Duley Lake Park
Duley Lake
Overburden Stockpile Collection Pond
Pike Lake
Emergency Ore Concentrate Stockpile
Low-grade Ore Stockpile
Concentrate Load-out
Emergency Ore Stockpile
Pike Lake Dike
Emulsion and Explosion Production Plant
Process Plant
Overburden Stockpile
Ore Stockpile
Freshwater Pumping Station
Primary Ore Crusher Station
Crushed Ore Stockpile
Riordan Lake
Mine Service Area
Mine Rock Stockpile Collection Ponds
Rose Pit
Wahnahnish Lake Public Water Supply
Rose Pit Collection Pond
Tailings Management Facility (TMF)
Mid Lake Dam
Telecommunications Service
Lac Daviault
Mills Lake
Mine Rock Stockpile Collection Pond
Mine Rock Stockpile
Molar Lake
Fermont

KEY MAP



SCALE 1:20,000,000

Legend

PROJECT DATA

- Proposed Project Infrastructure
- Proposed Sediment Pond
- Potential Access Road

BASEMAP INFORMATION

- Duley Lake Park
- Railway
- Watercourse
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 1,000 2,000 4,000
1:71,000 METRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE
PROJECT LOCATION AND SITE LAYOUT

CONSULTANT

wsp

YYYY-MM-DD	2025-07-04
DESIGNED	----
PREPARED	GM/MS
REVIEWED	BK
APPROVED	JM

PROJECT NO.	CONTROL	REV.	FIGURE
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2.0 RATIONALE AND OBJECTIVES

For the purposes of this report, visual aesthetics refers to the visual qualities of natural and cultural features that comprise the landscape within the Project study area.

This VAIA describes the existing conditions and assesses the potential effects to visual aesthetics by the construction, operation, and closure phases of the Project. Operations and closure are considered as having a similar visual impact due to the consideration of maximum extent / height of infrastructure period to evaluate these effects. Displaying the operations at the maximum extent in this report will provide a worst-case scenario for the visual impact assessment. Mitigation recommendations will be fundamental to returning the landscape to natural conditions at closure.

3.0 ASSESSMENT BOUNDARIES

3.1 Spatial Boundary

Viewing distance zones were measured outward from the Project footprint to help define the viewing distance at which the Project can be seen and to determine a visual aesthetics study area.

Viewing distance affects the visible level of detail in the landscape whereby visual elements of the landscape are more discernible and prominent the closer they are to the observer (USDI BLM 1986a). For the purposes of the visual effects assessment, three study area boundaries were defined as the Site Study Area (SSA), the Local Study Area (LSA) and the Regional Study Area (RSA). The SSA is defined as a 100m buffer area from any project infrastructure. The LSA describes foreground viewing distances where Project components are more discernible and prominent to viewers and is defined as the area within 1 km of the SSA. The RSA describes the background viewing distances that are 1 km to 5 km from the SSA where changes to the landscape may be visible but are less discernible and prominent than foreground viewing distances.

The visual aesthetics RSA encompasses a space of approximately 501 square kilometres (km^2), and the LSA encompasses a space of approximately 116 square kilometres (km^2), surrounding the proposed Project infrastructure. The Project is located near and overlaps with designated lands such as a provincial park reserve, Habitat Management Units, and municipal lands.

3.2 Temporal Boundary

The temporal scope of the assessment focuses on the 40-year period from initial construction to the end of decommissioning and rehabilitation (i.e., closure) as defined by the following Project phases:

- **Construction Phase (referred to as Construction):** includes site preparation, mine, process plant and site infrastructure development, and commissioning the structures, systems, and components. The duration of Construction is expected to be four years.
- **Operations and Maintenance Phase (referred to as Operations)**: includes the mining and milling of iron ore, production and shipment of iron ore concentrate, tailings management, management of mine rock, waste management, water management, release of treated effluent, site maintenance and transportation of staff and materials to and from the site. Operations initiates with one year of pre-development mining (i.e., ramp-up) and concludes when processing is complete and is expected to be 26 years.

- **Decommissioning and Rehabilitation Phase (referred to as Closure)**: includes accelerated flooding of the Rose Pit, re-establishment of passive surface water drainage following the pit-flooding period, and recontouring and revegetating disturbed areas. Physical infrastructure that is not required during post-closure monitoring and for other activities required to achieve the Project's decommissioning criteria and to return the Project site to a safe and stable condition will be removed. Closure is expected to be 10 years.

Upgrades to reinforce or rebuild portions of the Project may occur during the Operations phase to maintain its longevity and these may increase the visual effects and require further mitigation. Potential visual effects and mitigation measures to be identified during the EIS for the construction of the Project will likely equally apply to the removal of the Project infrastructure during the Closure phase.

Decommissioning of the Project is expected to have a positive residual effect on aesthetics criteria and indicators (e.g., returning areas that were cleared of vegetation to a natural state and removing structures that effect the visual landscape). Therefore, the Construction scenario assessed as part of the EIS is considered bounding and potential visual effects and mitigation measures for Closure are not identified separately in this EIS.

The scale and character of changes to the existing visual aesthetics would be cumulative and reach their full extent at the termination of operations. Therefore, the qualitative aesthetics assessment will primarily focus on the Project effects at the Operations phase as the visual disturbance during this period would represent the largest extent and long-term viewing conditions likely to be experienced by viewers. Project components and activities, however, may overlap in time for viewers. For example, following construction, temporary construction camps and some access roads may be decommissioned, and some reclamation and revegetation (human-facilitated and natural) will occur during the Operations phase. Therefore, the aesthetics assessment will consider the residual effects of the Project that occur during the Construction and Operations phases.

4.0 REGULATORY SETTING

This section describes the federal, provincial, and local regulations that govern visual aesthetics that must be considered in assessing the visual impacts of the Project.

Regulations governing visual aesthetics in the Project area are set by multiple levels of government. At the federal level, environmental and building codes provide overarching guidance. The Newfoundland and Labrador provincial government establishes planning and workplace safety regulations that influence visual impacts. Municipalities, including Town of Fermont, Town of Labrador City, and Town of Wabush, enforce zoning bylaws and development regulations that directly affect local visual aesthetics. Indigenous communities in the area may also have input relevant to visual considerations.

This Visual Impact Assessment has been prepared to support the Environmental Impact Statement (EIS; Champion, 2025) to meet the requirements of the *Environmental Assessment Regulations, 2003*, under the Newfoundland and Labrador *Environmental Protection Act* (NLEPA) as well as the EIS Guidelines issued by the NL Minister of the Environment and Climate Change on December 19, 2024.

Previously, an EIS was prepared for the same Project by Alderon in 2012 and the Project was released from the EA process in 2014 by the provincial and federal governments. The former provincial Minister of Environment and Conservation stated that under the authority of Section 67(3) (a) of the NLEPA, the Lieutenant-Governor in Council had released the Project, subject to several conditions, including adherence to all mitigation, monitoring and commitments identified in the previous EIS (Alderon, 2012). Champion optimized the project to reduced the impact previously assessed and has continued to implement these measures, when applicable. Some of those messures are maintain such has the movement of infrastructure to east of Mills Lake to address concerns of views for Fermont

residents, and other were optimized such as the progressive reclamation of the OBV stockpile and TMF during the operations and maintenance phase.Federal Regulations

At the federal level, visual aesthetics are not governed by a single dedicated regulation but are considered within broader environmental and building frameworks:

- Canadian Environmental Assessment Act, 2012: This legislation mandates environmental assessments for designated projects to evaluate potential adverse effects, including those related to visual aesthetics, where applicable (Government of Canada, 2019).
- National Building Code of Canada, 2020: This code includes provisions related to lighting and glare, particularly in workplace and industrial settings, to ensure safety and visual comfort (Government of Canada, 2020).

4.1 Provincial Regulations

Within Newfoundland and Labrador, visual aesthetics are addressed through various land use planning and environmental regulations:

- Urban and Rural Planning Act, 2000: This act establishes the legislative framework for municipal planning and development, enabling municipalities to develop zoning and aesthetic guidelines (Government of Newfoundland and Labrador, 2025).
- Occupational Health and Safety Regulations, 2012: These regulations include provisions related to workplace lighting and glare to prevent hazards and ensure adequate visibility (Government of Newfoundland and Labrador, 2023).

4.2 Municipal Regulations

At the municipal level, local governments establish regulations and planning policies that influence visual aesthetics within their jurisdictions. These regulations typically address aspects such as land use, building design, signage, and landscaping to maintain community character and minimize visual impacts.

Town of Labrador City

- Labrador City Development Regulations (2018-2028): These regulations govern land use and development within the town, including policies on building aesthetics, signage, and landscaping to maintain the town's visual character (Town of Labrador City, 2020). The regulations ensure that new developments and renovations align with the community's aesthetic standards and contribute to a cohesive urban environment (Town of Labrador City, 2020).

Town of Wabush

- Wabush Municipal Plan (2018-2028): This plan outlines policies for land use and development, including guidelines for building design, signage, and landscaping to ensure a cohesive and visually appealing urban environment (Town of Wabush, 2018). The plan includes specific provisions for different zones within the town, ensuring that development in each area meets the desired aesthetic and functional standards (Town of Wabush, 2018).

Town of Fermont

- As a municipality in Quebec, Fermont's visual aesthetic regulations are guided by Quebec's provincial legislation and local municipal planning policies. While specific regulatory details were not available at the time of desktop research, zoning bylaws and urban planning frameworks typically address the aesthetic qualities of buildings and landscapes.

4.3 Indigenous Communities

Champion has been engaging with potentially affected Indigenous groups and local community stakeholders since the acquisition of the Project in 2021 as part of the EIS (Champion, 2025). The following Indigenous groups have been engaged on the project:

- Innu Takuaikan Uashat mak Mani-Utenam (ITUM)
- La Nation Innu Matimekush-Lac John (NIMLJ)
- Innu Nation
- Naskapi Nation of Kawawachikamach (NNK)
- NunatuKavut Community Council (NCC)

The summary of engagement activities with Indigenous groups was reviewed to identify any concerns relevant to visual impacts associated with the Project. A concern related the accumulation of mine rock piles as this creates dust in the surrounding area was identified by ITUM, and a description of how this concern has been addressed in the VAIA is included in Section 7.0. Champion will continue to engage with Indigenous groups and the public, following the Kami Engagement Plan (KEP), which is included as Annex 5G of the EIS.

5.0 METHODS

This section describes the methods used to analyze the potential visual aesthetic effects from the Project, outlining the criteria and indicators used to characterize visual aesthetics, as well as the regulatory thresholds used to characterize visual effects. It covers the study area and receptors used in the analysis, and the methods employed to predict and characterize effects of Project-related changes to visual aesthetics. The visual impact assessment process employs systematic analysis to evaluate visual effects on landscapes and viewing opportunities, based on the potential for Project-related disturbances to alter the visual qualities and character of the existing visual aesthetics. The approach applied in this report uses a combination of professional methods to determine how the visual character of the Project would create a visual change in the landscape and effect the existing visual aesthetics. This report presents the predicted visual effects resulting from Project components and activities during construction, operations, maintenance, and closure.

Changes in the indicators defined in Section 5.2, below, were assessed relative to the existing or baseline characterization of the environment to understand potential Project-related visual effects, as follows:

- Visibility of the Project was estimated using viewshed analysis (visibility mapping) results to predict where the Project will be visible; and
- Visual effects were determined by qualitatively assessing the visual contrast of the Project with existing conditions using photo simulated images from potential receptor viewpoints.

Information and data sources for the visual aesthetics baseline characterization included:

- Inventories that aid in identifying natural land features and vegetation cover;
- The online Newfoundland Labrador Land Use Atlas (Newfoundland & Labrador, 2024) database information covering geographic, recreational resources, tourism resources;
- Documents that note land use for Indigenous groups;
- Relevant publicly available sources (e.g., community organization websites, business websites), including local and regional land and resource use planning documents;

- Management plans for relevant land and resource uses, such as Forest Management Units, parks and municipalities;
- Information from field surveys conducted by other disciplines (such as air quality, noise and natural environment assessments);
- GIS data from Champion; and
- Feedback from engagement from stakeholders and Indigenous Rightsholders (Section 7.0).

5.1 Criteria and Indicators

Criteria are components of the environment that are considered to have economic, social, biological, conservation, aesthetic, or ethical value, as described in Section 4.0. Indicators are an aspect or characteristic of a criterion that, if changed as a result of the Project, may demonstrate a physical, biological or socio-economic effect. The criteria and indicators selected for the assessment of potential Project effects on the visual aesthetics, and the rationale for their selection, are provided in Table 1.

Table 1: Potential Project Effects on Visual Aesthetics

Criterion	Rationale	Indicators	Measurement of Potential Effects
Visual Landscape (Aesthetics)	▪ Commitment to avoid or minimize adverse effects to existing scenic views and visual aesthetics.	Change to the visual landscape considering: ▪ Visibility of the Project from potential viewing locations that may be related to visual aesthetics. ▪ Anticipated visibility of the Project from key viewpoints. ▪ Visual contrast of the Project relative to the existing landscape from viewpoints.	▪ Qualitative assessment of the change to the visual landscape during construction. ▪ Qualitative and quantitative assessment of the change to the visual landscape during operations, maintenance, and closure.

Visual aesthetics was selected as the criterion on which to focus the assessment of potential effects of the Project on landscape views and visual aesthetics. Aesthetics is the visual character or condition of the visual resources (i.e., topography, water features, vegetation, cultural features) of a landscape area that is related to the landscape's ability to provide scenic appeal for viewers. The visual aesthetics of the environment has value to individuals, society, and the economy and particularly to persons involved in recreational, tourism and residential land use activities.

The indicators used to characterize changes for the visual aesthetics criterion are:

- Visibility of the Project from potential viewing locations that may be related to visual aesthetics: refers to locations that are related to visual aesthetics and have potential visibility of the Project. These locations are derived from GIS data, stakeholder engagement and publicly available information and identified through GIS visibility analysis.
- Anticipated visibility of the Project from viewpoints: Refers to the visible extent of the Project (determined through visibility analysis) from viewpoint locations that may have a scenic quality rating related to visual aesthetics.

- Visual contrast of the Project relative to the existing landscape from viewpoints: Refers to the visual character of the Project and the level of visual contrast between the Project components that were referenced in the EIS Guidelines for the Project and the existing landscape from viewpoints.

Project components that are included in this assessment and were mentioned in the EIS Guidelines include the following:

- Mine pits and access roads
- Process plant and other buildings, structures and infrastructure
- Tailings management facilities including dams
- Water management infrastructure
- Accommodations and infrastructure for workers
- Stockpiles
- Access roads and railway

5.2 Baseline Characterization Data Collection Methods

The baseline characterization data are a temporal snapshot that represents the existing condition of visual resources and reflects the visual aesthetics of the landscape in the RSA prior to Project construction. An inventory of visual resources was established to characterize the existing visual conditions of the landscape, including visual effects from previous and current land use activities, against which potential effects of the Project on visual aesthetics were assessed. This section describes the specific methods and standards used to collect data that represent the existing or baseline characterization environment.

The Provincial EIS Guidelines for the Kami Iron Ore Mine (Government of Newfoundland & Labrador, 2024) provides the requirement for describing viewscapes of the extent of developed and undeveloped land. However, the particular method for describing viewscapes is not provided by the EIS Guidelines. Accordingly, the approach used in this assessment follows established international guidance for best practices for visual impact assessment (LI/IEMA 2013) and adapts elements of the United States Department of the Interior Bureau of Land Management's (United States Department of the Interior Bureau of Land Management , 1985) Visual Resource Management (VRM) system and classes, which is a standardized method for visual inventory and assessment developed for a variety of resource management planning situations. Specifically, methods for the assessment of the baseline characterization were applied from the Visual Resource Inventory BLM Manual Handbook H 8410-1 (United States Department of the Interior Bureau of Land Management, 1986). These methods draw on landscape design principles and public perception research and use criteria that can be consistently identified and evaluated for assessing the character of existing visual settings and rating the visual effects of a project's features on the surrounding landscape. Application of this method allowed the assessment to be conducted consistently throughout the visual aesthetics RSA and reduced the subjectivity associated with assessing visual aesthetics.

The baseline characterization was developed through desktop review of existing information, including review of the regulatory and policy setting, classification of landscape character, visibility analysis, photographic field surveys and landscape analysis.

5.3 Landscape Characterization

Landscape character refers to the distinct and recognizable patterns resulting from a combination of physical elements (e.g., landform, water, vegetation) and cultural elements (e.g., land use patterns, cultural modification, and historic features) for different areas in a landscape (Horner + Maclennan and Envision, 2006). The character of the landscape within the RSA varies relative to combinations in the landscape's biogeoclimatic, terrain, and land use settings. To assess the general qualities of the landscape context, the LSA and RSA were classified into distinct units of landscape character based on intersecting ecosystem classification units defined in the ecological land classification systems. For the assessment of baseline characterization visual aesthetics, the description of these units was used in combination with observations from available photographic field surveys to inform an understanding of the visual character.

5.4 Viewshed Analysis

Viewshed analysis using Geographic Information System (GIS) identifies areas across a landscape that can be seen from one or more viewpoints. This method was used to map the visible areas with potential line-of-sight to the Project components. The viewshed analysis utilized 3D points that represented the top of proposed project components, such as building corners, tops of transmission towers, peaks of stockpiles and mine rock. The viewshed analysis from the 3D project points was conducted with a Digital Elevation Model (DEM) that contains topographic elevation data within the LSA and RSA. The DEM was primarily created from LiDAR data that was supplied by Champion. Where LiDAR data was not available, Natural Resources Canada (NRCan, 2022) DEM data was used. All the DEM datasets were combined into a 5 m resolution surface model and used for the visibility modelling.

Considering the resolution of the spatial data used and the potential for additional limitations to natural visibility (e.g., atmospheric conditions, etc.), the visibility analysis results reflect a conservative estimation of the visibility of the Project.

The GIS data within the LSA and RSA that may be related to visual aesthetics was compiled based on the potential for Project viewing opportunities that were identified through the viewshed analysis. The GIS data was compiled from the following stakeholder or publicly available sources:

- Inventories that aid in identifying natural land features and cover;
- Newfoundland Labrador Land Use Atlas (Newfoundland & Labrador, 2024) database information covering geographic, recreational resources, tourism resources;
- Documents that note land use for Indigenous groups;
- Relevant publicly available sources (e.g., community organization websites, business websites), including local and regional land and resource use planning documents;
- Management plans for relevant land and resource uses, such as Forest Management Units, parks and municipalities; and
- Information from field surveys conducted by other disciplines (such as air quality, noise and natural environment assessments).

5.5 Photographic Field Survey

A photographic field survey was conducted between September 12 and September 15, 2024, to capture baseline landscape photographs, geographic information, and observations from a number of representative viewpoints to document existing viewing conditions within the LSA and RSA. Photographs were taken from the viewpoints in the direction of the Project with a professional quality Digital Single Lens Reflex (DSLR) camera mounted on a tripod. GPS coordinates were also collected at each camera location to be used during the effects assessment to align with the photo simulations. For this assessment, panoramic images were captured to present a wide field of view that depicts the full extent of the Project that an observer could experience from each viewpoint location. Each camera location is identified by a unique viewpoint (VP) identification number as shown in Figure 2.

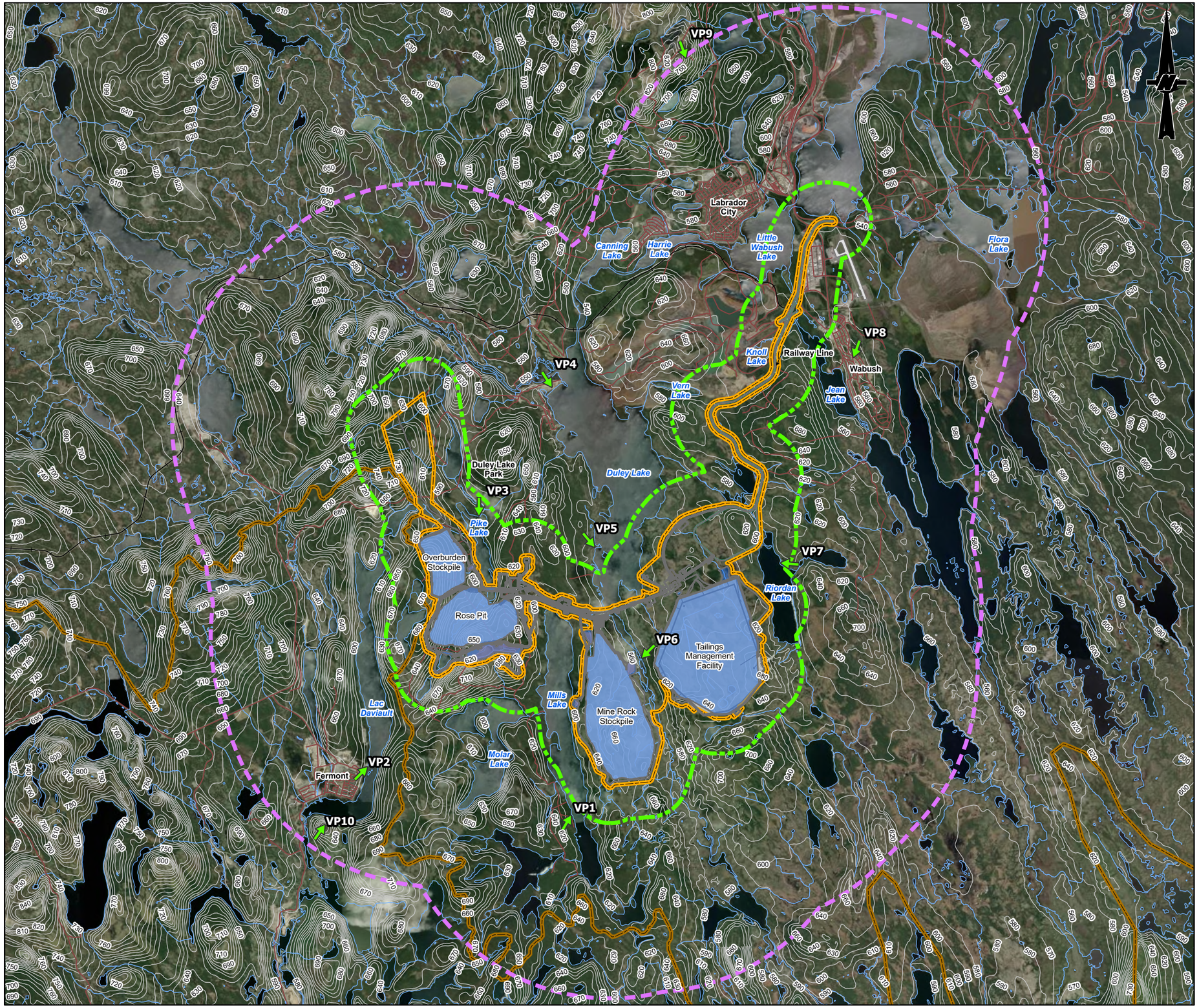
Given the large number of potential viewing locations within the LSA and RSA, it was not feasible to visit all potential viewing opportunities that may be affected by the Project. Considering this, it was necessary to select a subset of representative viewpoint locations to characterize the baseline landscape. The selection of the representative viewpoints to conduct photographic field surveys was based on the following visual aesthetics criteria (LI/IEMA 2013, USDI BLM 1986a):

1) Proximity to features that provide publicly accessible viewing, including roads, trails, waterbodies, parks, and recreation amenities near residential areas;

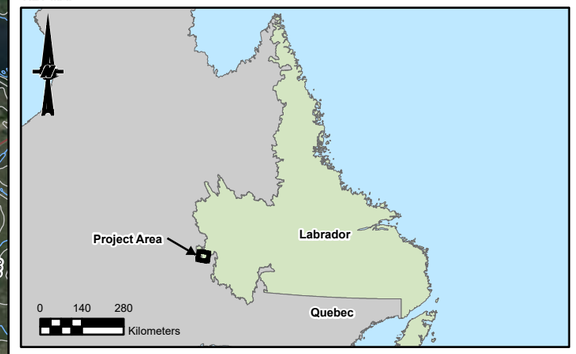
2) Ease of access and use by a range of viewers and user groups, including recreational users, tourists, motorists, and residents;

3) Representation of a range of viewing angles and distances; and

4) The potential for unobstructed views of the Project.



KEY MAP



SCALE 1:20,000,000

LEGEND

- Viewpoint Location and Direction
- Proposed Project Infrastructure (Linear)
- Potential Access Road
- Proposed Access Road and Railway Corridor
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Proposed Project Infrastructure
- Proposed Sedimentation Pond
- Site Study Area (SSA)
- Local Study Area (LSA)
- Regional Study Area (RSA)
- Labrador/Quebec Boundary
- PRojectFootprint_Dissolve

0 1 2 4
1:110,000 KILOMETRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. IMAGERY CREDITS: WORLD IMAGERY: EARTHSTAR GEOGRAPHICS
2. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE
VIEWPOINT LOCATIONS FOR POTENTIAL RECEPTORS

CONSULTANT

wsp

YYYY-MM-DD	2025-07-04
DESIGNED	----
PREPARED	JMA/PJM
REVIEWED	BK
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	0	2

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5.6 Landscape Analysis

Determining the value of the landscape's existing visual quality incorporated input from engagement and consultation with residents, indigenous and land user groups regarding visual quality, results from the landscape characterization analysis describing the context of the Project area, results from the photographic field surveys from viewpoints, and systematic ratings based on dimensions of scenic quality, and viewing distance from criteria established in the USDI BLM VRM system.

Visually referencing the photographic survey images from viewpoints, the scenic quality of the existing landscape was described and classified based on factors related to the characteristics of landscape features (e.g., landform, vegetation, water). A combination of these values, along with the delineation of viewing distance, provided an overall landscape rating to determine the value of the existing landscape visual quality and support the analysis of Project-related visual effects.

5.7 Scenic Quality Rating

The baseline scenic quality assessment is an evaluation of the overall existing scenic appeal of a view, as determined by its visual characteristics and the relationship of its natural and cultural features. Once established, the baseline scenic quality is compared with the Project to determine the level of visual contrast as described in Section 8.2.3. The analysis of scenic quality is based on established research in perceptual psychology and the premise that all landscapes have some scenic value, but those with visual diversity, with harmonious composition, and/or that contain distinct features have the greatest potential for high scenic quality (USDI BLM, 1986a). The dimension of scenic quality of the landscape was described and classified based on factors related to landscape features and visual design elements by reviewing topographic, landcover, cultural feature spatial data, results from the landscape unit character analysis, and available orthographic and photographic images for each viewpoint. Ratings of scenic quality uses information such as adjacent scenery, colour, cultural modifications, landform, scarcity or uniqueness. Scenic quality for viewpoints was characterized using the following descriptive categories:

- High – views are generally strongly visually composed, containing a diverse arrangement of landscape features; alterations may fundamentally alter the visual character of the landscape.
- Moderate – views that have some distinct dimension or character; landscape features may demonstrate a degree of visual composition and a moderate amount of visual diversity; landscape alterations may be evident.
- Low – views that are typically uniformly composed with limited visual diversity and few or no prominent landscape features; landscape alterations may be prominent.

5.8 Potential Project Environment Interactions

Potential Project-environment interactions were identified through a review of the Project description and existing environmental conditions. Interactions between Project components described in Section 5.1 and activities and potential visual aesthetic effects are identified in Table 2.

Table 2: Project–Environment Interactions for Visual Aesthetics

Criteria	Indicator	Project Stage Construction(**)	Project Stage Operation and Maintenance	Closure	Description of Potential Project Environment Interaction
Visual Landscape (Aesthetics)	Change to the visual landscape considering: Visibility of the Project from potential viewing locations that may be related to visual aesthetics. Anticipated visibility of the Project from viewpoints. Visual contrast of the Project relative to the existing landscape from viewpoints.	*	*	*	▪ Change to the visual landscape during construction ▪ Change to the visual landscape during operations, maintenance, and closure.

* = A potential Project-environment interaction could result in an environmental or socio-economic effect.

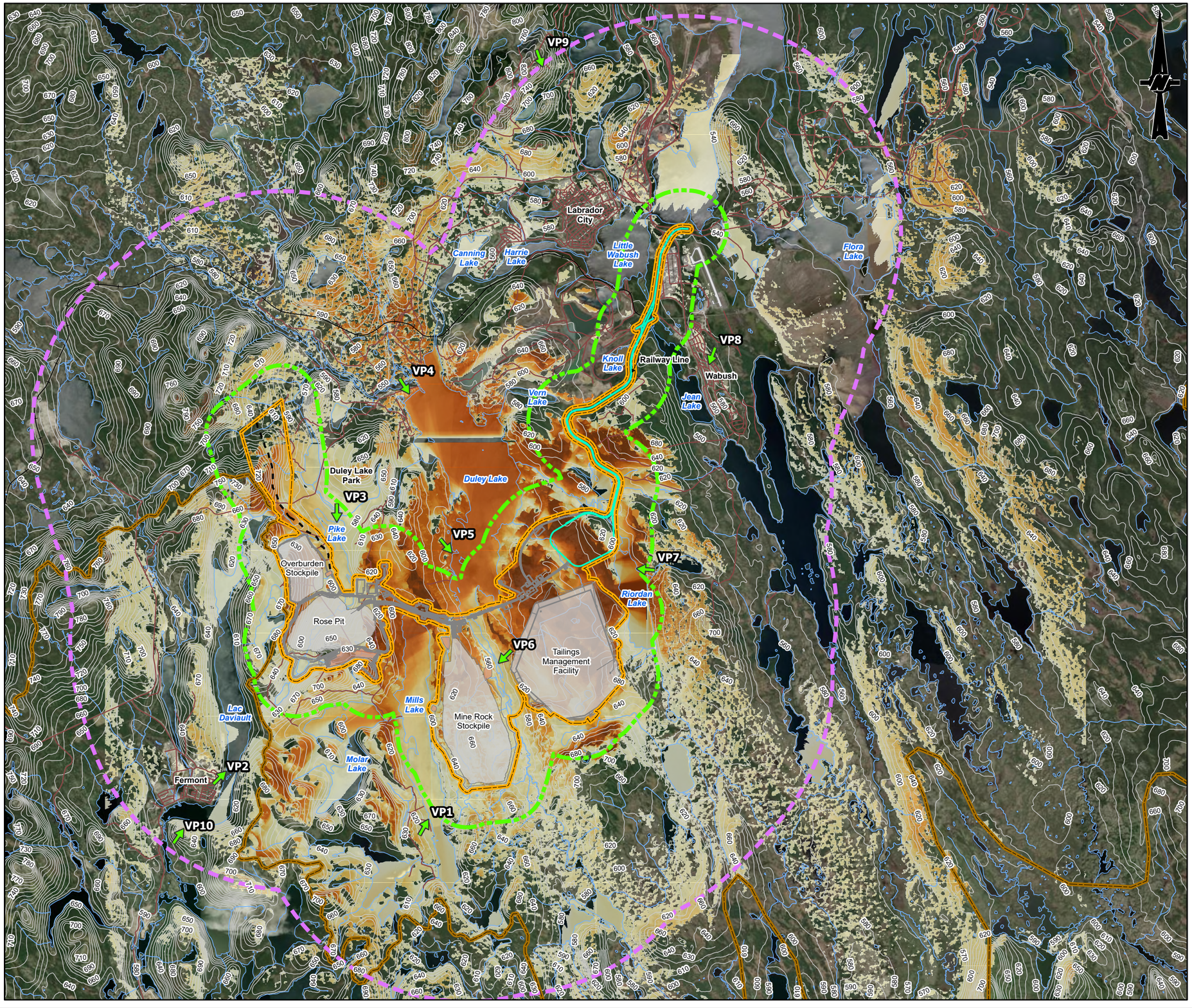
** = As described in Section 8.2.1, the construction scenario assessed as part of the EA is considered bounding and potential and mitigation measures for retirement are not identified separately in this EA.

5.9 Project Visibility

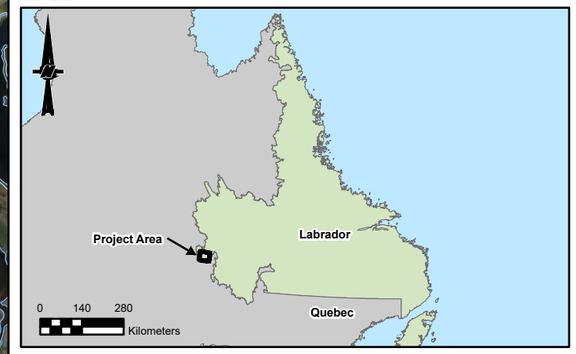
Visibility of Project Components

Changes in visibility were characterized using results from the preliminary visibility analysis conducted and described in Section 5.9 and observations of the predicted viewing conditions to quantitatively measure and describe the visibility of Project features. Viewing distance zones (i.e., foreground, middle-ground, and background) for the Project are presented in Figure 3. This figure shows the locations where the Project facilities would be highly visible (dark orange) to low visibility (light orange).

The results are illustrated by the shading scale, which describes the relative visibility of the surrounding landscape from 3D point locations on the top of Project components (i.e., building corners, peaks and ridge lines of stockpiles and mine rock). The darker shading on the scale indicates areas of the landscape that will have higher visibility of Project features and are generally closer to the Project features. The lighter shading indicates areas of the landscape that would have lower visibility of Project features. For example, someone standing on the shoreline of Duley lake may have a higher visibility of buildings stockpiles and tailings. Whereas viewers standing at Mont Daviault Lookout would have a lower visibility of only two stockpiles far off in the distance.



KEY MAP



SCALE 1:20,000,000

- Viewpoint Location and Direction
- Proposed Project Infrastructure (Linear)
- Potential Access Road
- Proposed Access Road and Railway Corridor
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Proposed Project Infrastructure
- Proposed Sedimentation Pond
- Site Study Area (SSA)
- Local Study Area (LSA)
- Regional Study Area (RSA)
- Labrador/Quebec Boundary

Visibility of Project Infrastructure

- High Visibility
- Low Visibility

0 1 2 4
1:110,000 KILOMETRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. IMAGERY CREDITS: WORLD IMAGERY: EARTHSTAR GEOGRAPHICS
2. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE
PROJECT VISIBILITY

CONSULTANT

YYYY-MM-DD	2025-07-04
DESIGNED	----
PREPARED	JMA/PJM
REVIEWED	BK
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
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5.10 Visual Assessment

5.10.1 Landscape Modelling

Simulated views of the baseline characterization and residual effects from the viewpoints were created using Autodesk 3D Studio Max (3ds Max 2021) software for landscape modelling. 3ds Max allows spatial data to be incorporated into a data driven 3D landscape model that simulates the terrain surface, vegetated landcover, built features, and atmospheric conditions of the landscape. Topography and vegetation features were imported into 3ds Max from base mapping, digital elevation model and DEM data. 3D Project components, including structures and lines with design specifications were also incorporated into 3ds Max from 3D AutoCAD files (reference). Images from the viewpoint locations were rendered from 3ds Max and photo simulations were created by compositing the render images of the Project components with the photographs to illustrate the potential visual effects from the viewpoints Simulated images from each viewpoint of the baseline characterization and residual effects landscapes supported evaluation of the incremental change in visual character by determining a level of visual contrast of the Project.

5.10.2 Visual Contrast

Characterization and rating of the level of visual contrast introduced by the Project was used to determine the overall visual character of the Project in comparison to the baseline characterization setting and to determine the level of visual impact to the existing visual aesthetics. This assessment was carried out following the USDI BLM's Visual Resource Contrast Rating system (USDI BLM, 1986a). The USDI BLM visual contrast rating system is a systematic process used to analyze potential visual effects of proposed projects and activities. The premise of the system is that the degree to which a proposed project or activity will affect the visual aesthetics of a landscape depends on the visual contrast created between the Project footprint and the existing landscape. Contrast can be assessed qualitatively by comparing the Project components with the major features in the existing landscape. Specific methods were applied from the Visual Resource Inventory BLM Manual Handbook H-8431-1.

The degree of contrast visible from viewpoints was determined by describing the Project components related to landform and water, vegetation and built structures using the visual dimensions of colour, form, line, and texture and comparing these to the baseline characterization landscape conditions. Assessment results for each visual dimension were combined into an overall rating of contrast for Project related disturbances to the baseline characterization. The rating classes for overall visual contrast are characterized as follows:

- None – the element contrast is not visible or perceived.
- Weak – the element contrast can be seen but does not attract attention.
- Moderate – the element contrast begins to attract attention and begins to dominate the characteristic landscape.
- Strong – the element contrast demands attention, will not be overlooked, and is dominant in the landscape

These ratings and definitions were used to describe the level of contrast presented by the visual character of the Project within the baseline characterization viewing conditions.

5.10.3 Detailed Visual Impact Assessment from Viewpoints

A visual impact assessment was completed for each viewpoint to determine how the predicted level of visual contrast from the Project is related to assessed scenic quality. This was conducted as a qualitative assessment of the level of visual impact that the Project-related disturbances are predicted to have on the existing visual aesthetics and character. This assessment considered the visual contrast rating (Section 8.2.3) which describes the predicted level of visual contrast of the Project components.

The contrast ratings were compared to the scenic quality ratings to determine the level of visual impact of Project for each viewpoint. The resulting ratings of visual impacts are defined as follows:

- **Negligible**: a very minor loss or alteration to one or more key elements/features of the existing landscape.
- **Low**: minor loss or alteration to one or more key elements/features of the existing landscape and/or introduction of elements that may be characteristic within the existing landscape.
- **Moderate**: partial loss or alteration to one or more key elements/features of the existing landscape and/or introduction of elements that may be prominent and may partially change the existing landscape character.
- **High**: a loss of or major alteration to key elements/features of the existing landscape and/or introduction of elements considered to change in the existing landscape.

Table 3 shows the combination of the scenic quality ratings and the visual contrast ratings, which describe the predicted level of visual contrast of the Project features, and the resulting overall visual impact ratings. Table 4 provides a summary of the spatial boundaries for the VAIA.

Table 3: Visual Impact Rating System

		Visual Contrast Rating				
		None	Weak	Moderate	Strong	Severe
Scenic Quality	Low	Negligible	Low	Low	Moderate	Moderate
	Medium	Negligible	Low	Moderate	Moderate	High
	High	Low	Moderate	Moderate	High	High

Note: based on the Guidelines for Landscape and Visual Impact Assessment (LI/IEMA, 2002)

Table 4: Summary of Visual Aesthetics Spatial Boundaries

Spatial Boundary	Area (ha)	Description	Rationale
Project footprint	1972	The Project footprint includes: ▪ Access roads (improved existing roads and new); ▪ Proposed project infrastructure, including buildings, explosion production plant, process plant, crusher station, pumping station, collection ponds; ▪ Temporary supportive infrastructure associated with construction including fly yards, construction/stringing pads, laydown areas, construction camps, and helicopter pads; and ▪ Pits, stockpiles and tailings.	To capture the potential direct effects of the physical footprint of the Project.
Local study area	11577	▪ Includes the Project footprint and: ▪ A 1 km buffer on the Project footprint	To capture potential local direct and indirect effects of the Project on the visual aesthetics criteria that may extend beyond the Project footprint. This area is established to assess the potential effects of the Project from foreground (1 km from the footprint) viewing distances. Where visual details are most easily discernible by viewers.

Table 4: Summary of Visual Aesthetics Spatial Boundaries

Spatial Boundary	Area (ha)	Description	Rationale
Regional study area	50098	▪ Includes a 5 km buffer on the local study area	To provide a regional landscape context to assess the cumulative and regional effects on the visual aesthetics criteria. This area is established to assess the potential effects of the Project from middle ground (1 to 6 km from the Project footprint) viewing distances where changes to the landscape may be visible, but are less discernible than foreground viewing distances.

ROW = right-of-way; TS = Transformer Station.

6.0 CHARACTERIZATION OF EXISTING ENVIRONMENT

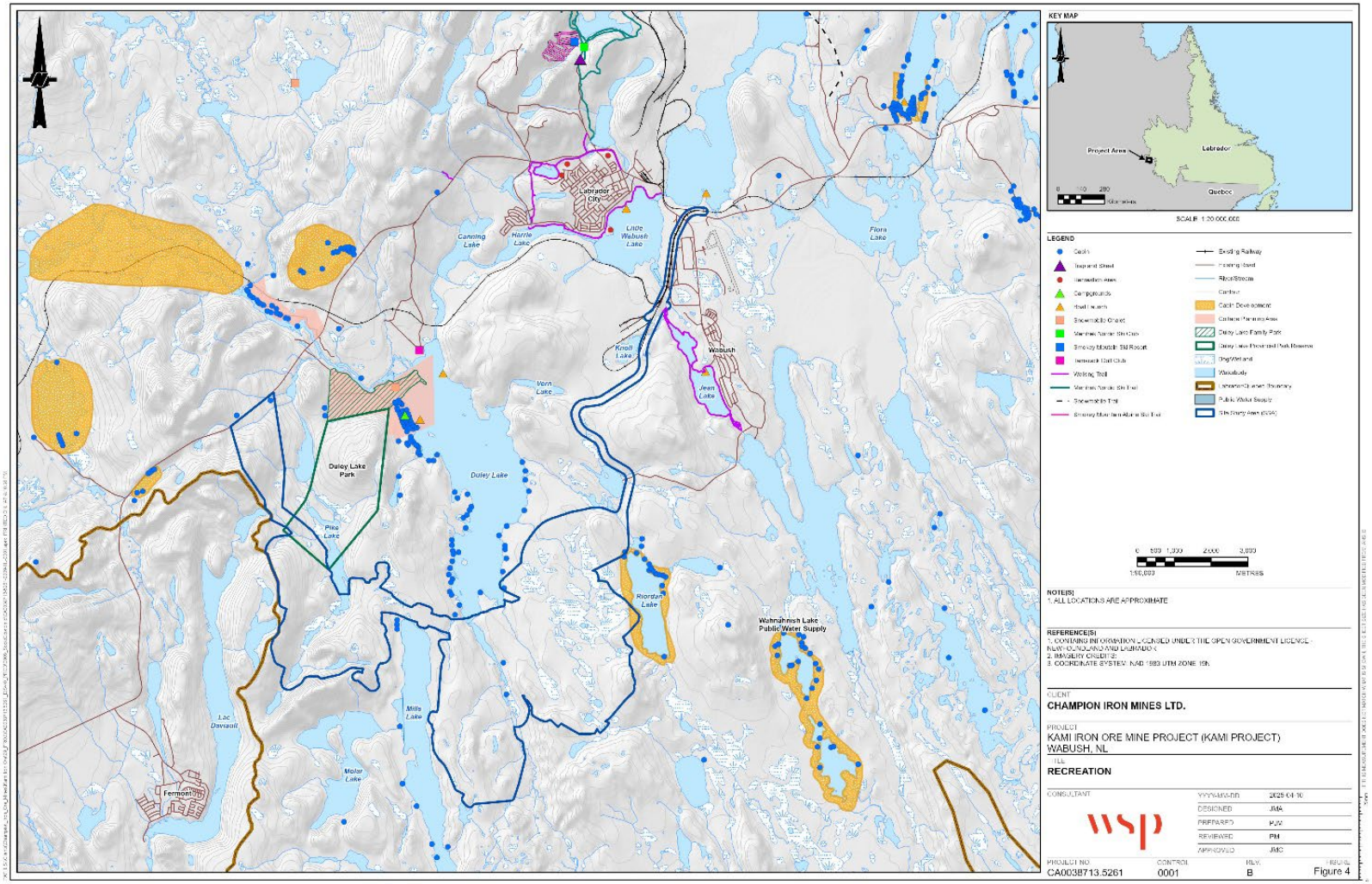
6.1 Landscape Characterization and Analysis

The LSA and RSA are primarily characterized by natural landscapes with some built industrial, development, and settlement features. The Project is located in an environment that is not visually pristine. There are currently two existing open pit mining operations in the LSA, each with tailings management and mine rock areas. Developed lands tend to occur nearer to roads and existing mining operations (Alderon, 2012). There are cottages, lodges and commercial accommodations located in the LSA and RSA around bodies of water such as Duley Lake and Riordan Lake as illustrated in Figure 4. Several viewpoints that were selected coincide with cottage and recreational locations such as the marina, ski areas, water users, campgrounds and provincial park, illustrated in Figure 4.

The LSA and RSA lies within the Boreal Shield Ecozone and the Wabush Ecodistrict that is underlaid with a rolling plain of ancient Precambrian granite and gneiss bedrock with glacially carved striations. The district's uplands are bedrock-controlled, while the rest of the landscape is blanketed with gravel, sand and other glacial deposits (Nature Conservancy of Canada). The many poorly drained depressions left behind, as well as natural faults in the bedrock running in multiple directions, now form the millions of lakes, ponds and wetlands that give this ecozone its distinctive character and charm (Ecological Framework of Canada). The predominant habitat within the LSA and RSA is boreal forest that includes lakes, rivers and wetlands (Natural Resources Canada, 2024). The LSA and RSA contains mature black spruce (Picea mariana) forest with a mix of eastern larch (Larix laricina). There are areas with post-fire habitat with low (<2 m) black spruce, willow species (Salicaceae spp.), dwarf birch (Betula spp.) and heath vegetation (sheep laurel and Labrador tea [Ledum groenlandicum]). Some areas contain jack pine (Pinus banksiana) plantation. There are also open fen/peat bog vegetation areas with low density stunted black spruce and eastern larch as well as wetland bordered by alder (Alnus incana) (Newfoundland & Labrador Canada, 2024) and willow thickets.

Labrador City, Wabush and Fermont share a history of being communities that started out as camps to house mining workers in the mid-twentieth century (WSP, 2023). Due to the proximity of the Project to Labrador City and Wabush, recreational land use in this area is extensive. Labrador City is the second-largest population centre in Labrador with a population of 7,415 (WSP, 2023). Labrador City has several recreational sites and services including an arena, softball fields, and a ski and curling club (WSP, 2023). Wabush is located close to the Québec border in western Labrador, on the shores of Jean Lake, five kilometres south of the Labrador City. Wabush has a population of 1,965 people. Figure 4 illustrates recreational facilities located around the Project such as cabins, trap and skeet areas, campgrounds, boat launches, snowmobile chalets, ski clubs, a golf club, and trails. Duley Lake Park is illustrated in Figure 1. The Town of Wabush and Town of Labrador City each have Municipal Plans for 2018-2028 that define their municipal planning areas, guide growth and development within the planning areas and direct future growth to use municipal services and land resources efficiently, while considering aspects of land development such as safety, aesthetics, and environmental protection (Town of Labrador City, 2018; Town of Wabush, 2018). The other municipality in the area is the Ville de Fermont in Québec where there are also several recreational sites and services geared for residents and visitors. Fermont features a semi-Olympic pool, gymnasium, skating arena, and public library (WSP, 2023).

Figure 4: Recreational Facilities



6.2 Viewshed Analysis and Viewpoint Identification

Based on the results of the desktop visibility analysis shown in Figure 3, the GIS data with representative viewing opportunities within the visible areas were extracted to identify the types of visible areas within the LSA and RSA to support the selection of the representative viewpoints for further analysis.

Preliminary visibility analysis and viewpoint selection criteria described in Section 5.9 identified numerous potential viewing locations for the Project. These included land-based and water-based viewing locations representing travel routes, residential, recreational and commercial tourism use areas, and locations identified for Indigenous use and/or interest.

Given the large number of locations visited in the LSA and RSA during the photographic field survey, it was not feasible or necessary to create photo simulations from all the viewpoints. The effects of the Project become repetitive after a certain number of photo simulations are created and are not necessary to establish the residual effects. Therefore, key viewpoints were identified from a select number of photo viewpoint locations with representative viewing opportunities in photo simulations surrounding the Project for the visual effects assessment. The range of viewing scenarios that were considered include:

- Viewpoints with scenic landscape settings (i.e., lookouts, expansive views, lakes).
- Viewpoints that have a high significance to Indigenous Communities based on their input and feedback.
- Viewpoints with potential for high visibility of the Project based on visibility analysis displayed in Figure 3 such as vantage points very close to the Project with very little vegetative screening or from higher elevations.
- Viewpoints further away from the Project to depict the Project from longer distances with a less discernible level of detail.
- Viewpoints with potential for a large number of receptors that would have a view of the Project (i.e., transportation corridors, tourists, recreation users, campgrounds, and large settlements).
- Viewpoints with viewing opportunities of the Project that are easily accessible to the public.
- Viewpoints with high potential effects (worst case scenario) to be conservative for the visual effects assessment.
- Viewpoints selected based on criteria from visual guidelines (LI/IEMA, 2013; USDI BLM, 1986a).

Based on the above, Table 5 identifies the key viewpoints that were selected, the type of receptor to be expected and the rational for choosing each key viewpoint.

Table 5: Rationale for Key Viewpoint Selection

Viewpoint (VP)	Name	Type of Receptor	Rationale for Key Viewpoint Selection
VP1	Mills Lake	Cottage residents	Represents view from a foreground viewing distance at a cottage residence where the Project may be visible east and south of Mills Lake.
VP2	Fermont Shoreline	Residents of Fermont, recreational water users, float plane passengers and pilots.	Represents a view from a background viewing distance at a popular marina and air base with views over the water that may have visibility of the Project on the horizon.
VP3	Pike Lake	Cottage residents	Represents a view from a foreground viewing distance at a cottage residence where the Project may be visible west and south of Pike Lake.
VP4	Duley Lake Provincial Park	Campground users, recreational water users	Represents view from a background viewing distance at a popular tourism and recreational site with views over the water that may have visibility of the Project on the horizon.
VP5	Duley Lake	Cottage residents	Represents view from a background viewing distance at a beach that is adjacent to local cottage residents where the Project may be visible on the east side of Duley Lake.
VP6	Waldorf River	Cottage residents	Represents view from a foreground viewing distance at a cottage residence where the Project may be visible east of the Waldorf River.
VP7	Riordan Lake	Cottage residents	Represents view from a foreground viewing distance at a cottage residence where the Project may be visible east of Riordan Lake.
VP8	Wabush, Our Lady of Assumption Catholic Church	Residents in Wabush, attendees at place of worship	Represents view from a background viewing distance at a place of worship that is surrounded by many residences that may have visibility of the Project.
VP9	Smokey Mountain	Recreational skiers	Represents an elevated view from a background viewing distance at a popular recreation destination (top of Smokey Mountain Ski Hill) where the Project will be visible in the distance.
VP10	Mont Daviault Lookout	Recreational site users, hikers, picnic	Represents an elevated view from a background viewing distance at a popular lookout and recreation destination where the Project will be visible in the distance.

The high number of receptors and historical importance of Fermont, Labrador City and Wabush established the need to investigate viewing locations from these towns. Through the viewshed analysis, field reconnaissance and referring to the 2012 Alderon report, it was established that the Project would likely not be visible from Labrador City and a potential viewpoint from this area was eliminated. It was estimated that the Project would not be visible from Fermont and Wabush however, photo simulations from these towns to establish visibility were created. The majority of the other Photographs were taken from the recreational areas, Smokey Mountain, Duley Lake Provincial Park, and lake shorelines near cottage residents. Two locations were chosen on the shoreline of Duley Lake, where there is a high concentration of potential visual receptors with expansive views across the lake towards the Project.

6.3 Baseline Scenic Quality Assessment

Dimensions of scenic quality were assessed for each of the eight key viewpoints and combined into a rating describing the existing level of scenic quality at each location. The results of this assessment are summarized in Table 6. The locations of key viewpoints are presented on Figure 2.

Table 6: Viewpoint Scenic Quality Rating Summary

Viewpoint (VP)	Name	Scenic Quality Rating	Description	Scenic Quality Rationale
VP1	Mills Lake	High	View over Mills Lake from a cottage on the western shoreline, approximately 1.3 km from the Project footprint. Evidence of previous forest clearing can be seen on eastern shore of Mills Lake. Existing power line structures are slightly visible on the horizon.	Scenic quality rational include: ▪ Panoramic, expansive view; ▪ Dominant waterbody; ▪ Variety of forest vegetation types; ▪ Topographic variation; ▪ Evidence of previous forest clearing is visible however, regrowth is evident; and ▪ Power line structures are slightly visible on the horizon however, no other manmade structures are perceivable in the view;
VP2	Fermont Shoreline	High	View over Lac Daviault from western shoreline, approximately 3.2 km from the Project footprint.	Scenic quality rational include: ▪ Panoramic, expansive view; ▪ Dominant waterbody; ▪ Variety of forest vegetation types; ▪ Topographic variation; and ▪ Clearing for seasonal roads may be evident east of Lac Daviault, no other manmade structures are perceivable in the view.
VP3	Pike Lake	High	View over Pike Lake from a cottage residence on the north shoreline, approximately 0.6 km from the Project footprint.	Scenic quality rational include: ▪ Panoramic, expansive view; ▪ Dominant waterbody; ▪ Variety of forest vegetation types; ▪ Topographic variation; and ▪ Clearing for seasonal roads may be evident surrounding Pike Lake and manmade structures such as cottages and power line structures may be perceivable in the view.

Table 6: Viewpoint Scenic Quality Rating Summary

Viewpoint (VP)	Name	Scenic Quality Rating	Description	Scenic Quality Rationale
VP4	Duley Lake Provincial Park	High	View from beach at Duley Lake Provincial Park, approximately 5.2 km from the Project footprint.	Scenic quality rational include: ▪ Panoramic, expansive view; ▪ Recreational beach ▪ Dominant waterbody; ▪ Variety of forest vegetation types; ▪ Topographic variation; and ▪ Clearing for roads surrounding Duley Lake may be evident and manmade structures such as cottages are visible in the view.
VP5	Duley Lake	High	View from beach on west shore of Duley Lake, approximately 1.5 km from the Project footprint.	Scenic quality rational include: ▪ Panoramic, expansive view; ▪ Recreational beach; ▪ Dominant waterbody; ▪ Variety of forest vegetation types; ▪ Topographic variation; and ▪ Clearing for roads surrounding Duley Lake may be evident and manmade structures such as cottages are visible in the view.
VP6	Waldorf River	High	View from cottage on east shore of Waldorf River, within the Project footprint.	Scenic quality rational include: ▪ Scenic setting; ▪ Recreational beach ▪ Waterbody; ▪ Variety of forest vegetation types; ▪ Topographic variation; and ▪ Clearing for roads surrounding Duley Lake may be evident and manmade structures such as cottages are visible in the view.
VP7	Riordan Lake	High	View over Riordan Lake from a cottage residence on the east shoreline, approximately 0.8 km from the Project footprint.	Scenic quality rational include: ▪ Panoramic, expansive view; ▪ Dominant waterbody; ▪ Variety of forest vegetation types; ▪ Topographic variation; and ▪ Clearing for roads surrounding Riordan Lake may be evident and manmade structures such as cottages are visible in the view.

Table 6: Viewpoint Scenic Quality Rating Summary

Viewpoint (VP)	Name	Scenic Quality Rating	Description	Scenic Quality Rationale
VP8	Wabush, Our Lady of Assumption Catholic Church	Moderate	View looking west Our Lady of Assumption Catholic Church in the town of Wabush, approximately 2.0 km from the Project footprint. Surrounding neighbourhood is predominately residential with many roads. Existing mining operations and stockpiles are visible north west of Wabush.	Scenic quality rational include: ▪ Cultural significance. ▪ Evident industrial mining development and infrastructure; ▪ Visible waterbody in the distance; ▪ Topographic variation; and ▪ Variety of forest vegetation types on west side of Jean Lake.
VP9	Smokey Mountain	High	Looking south from an elevated location at the top of Smokey Mountain Ski Club. A gravel road leads to the top of ski lifts, clearing of vegetation for ski runs. Ski lift infrastructure, lighting on poles and power lines on poles. Existing mining operations and stockpiles are visible south of Labrador City.	Scenic quality rational include: ▪ Panoramic, expansive view; ▪ Evident recreational facility development and infrastructure; ▪ Evident industrial mining development and infrastructure; ▪ Visible waterbodies in the distance; ▪ Topographic variation; and ▪ Variety of forest vegetation.
VP10	Mont Daviault Lookout	High	Looking south from an elevated location at Mont Daviault Lookout. The town of Fermont is visible on the shoreline of Lac Daviault.	Scenic quality rational include: ▪ Panoramic, expansive view; ▪ Scenic lookout; ▪ Evident residential, commercial development and infrastructure; ▪ Recreational development; ▪ Visible waterbody; ▪ Topographic variation; and ▪ Variety of forest vegetation.

7.0 ENGAGEMENT FEEDBACK

Issues and concerns related to visual aesthetics raised by Indigenous groups, public stakeholders and other interested parties and how these issues and concerns were addressed through the assessment are summarized in EIS **Chapter 22: Engagement**. Chapter 22 also cross references to where comments were considered or addressed in other EIS chapters.

Initial location of the mine rock stockpile prior to the previous EIS filing in 2012 was closer to the town of Fermont and the design was much higher in elevation with steeper side slopes. During engagement activities, the Town of Fermont expressed the importance of minimizing visual impacts from the proposed development of the Rose Pit and mine rock stockpile. Champion acknowledged this input and noted that visual modeling was underway to provide a clearer picture of the Project's appearance and invited Town of Fermont representatives to share further suggestions to address the potential effects. Champion's Project design has retained the relocated mine rock stockpile location as a continued design improvement to minimize visual impacts to the Town of Fermont. The mine rock stockpile was further redesigned to be lower in height and moved further east; these changes will result in no to negligible visual effects for the town of Fermont.

Champion has been engaging with potentially affected Indigenous groups and local community stakeholders since the acquisition of the Project in 2021.

Cabin owners expressed concern about dust effects. In particular, Riordan Lake Cabin Owners Association expressed interest in visual impacts related to the height of the mine rock stockpile, tailings and other infrastructure. Fermont showed concern about visual impacts of the Rose Pit, generally, of light, dust and brown snow impacts. Innu Takuaikan Uashat mak Mani-Utenam was also concerned about dust due to mine rock. Wabush raised concerns about dust mitigation measures, the need for a better visual understanding of tailings management, and the visual impacts related to the height of the mine rock stockpile, tailings, and other infrastructure. A summary of issues and concerns related to visual aesthetics is provided in Table 7.

Table 7 : Summary of Issues and Concerns Related to Visual Aesthetics by Indigenous Groups and Local Stakeholders

Indigenous Group or Local Stakeholder	Comment Theme	How it is Addressed in the Assessment	Where it was Addressed in the Assessment
Duley Lake Cabin Owners Association	Cabin owners expressed concern about the effects of dust. The Duley Lake area has limited exposure to dust from other mining activities. Cabin owners were concerned that the new mine would bring more dust and have an effect on air quality.	This assessment provides a better understanding of the potential visual and dust effects from the Project and recommends mitigation measures to address them.	Section 8.0 of the visual aesthetics report addresses the visual and dust mitigation measures.
Town of Fermont	Fermont's town council shared that their concern with the Rose Pit and the overburden stockpile would be for l visual, noise, and dust impacts for the people of Fermont.	This assessment provides a better understanding of the potential visual and dust effects from the Project and recommends mitigation measures to address them.	Section 8.0 of the visual aesthetics report addresses the visual and dust mitigation measures.
Fermont citizens	Concerns have been raised about dust accumulation creating brown snow that could be visible on the trails of the mountains near Lake Daviault and near the lakes at the border of Newfoundland and Labrador. Citizens shared concerns that this could impact local attractiveness that Fermont is known for due to nearby nature opportunities.	This assessment provides a better understanding of the potential visual and dust effects from the Project and recommends mitigation measures to address them.	Section 8.0 of the visual aesthetics report addresses the visual and dust mitigation measures.

Table 7 : Summary of Issues and Concerns Related to Visual Aesthetics by Indigenous Groups and Local Stakeholders

Indigenous Group or Local Stakeholder	Comment Theme	How it is Addressed in the Assessment	Where it was Addressed in the Assessment
Fermont citizens	Citizens of Fermont shared concerns about visual impacts regarding the Project's infrastructure or light pollution from the Project.	The effects of light from the Project and related mitigation measures are discussed in the Noise, Vibration and Light chapter of the EIS.	**Chapter 6.0, Noise, Vibration and Light** of the EIS (Champion, 2025) report addresses light effects mitigation measures.
Fermont citizens	Concerns have been raised about the potential visual, dust, noise and vibration effects during the construction phase around the excavation of the Rose pit.	This assessment provides a better understanding of the potential visual and dust effects from the Project and recommends mitigation measures to address them.	Section 8.0 of the visual aesthetics report addresses the visual and dust effects mitigation measures.
Innu Takuaikan Uashat Mak Mani-Utenam (ITUM)	ITUM showed concern about the accumulation of mine rock piles as this creates dust in the surrounding area.	This assessment provides a better understanding of the potential visual and dust effects from the Project and recommends mitigation measures to address them.	Section 8.0 of the visual aesthetics report addresses the visual and dust mitigation measures.
Kami Working Group	A working group member identified that dust is a major concern for local residents as well as tailings in a hill formation.	This assessment provides a better understanding of the potential visual and dust effects from the Project and recommends mitigation measures to address them.	Section 8.0 of the visual aesthetics report addresses the visual and dust mitigation measures.
Kami Working Group	A working group member expressed interest in visual impacts of the height of mine rock stockpile, tailings and other infrastructure.	This assessment provides a better understanding of the potential visual effects from the mine rock stockpile, tailings and other infrastructure and recommends mitigation measures to address them.	Section 8.0 of the visual aesthetics report addresses the visual effects and mitigation measures for the mine rock stockpile, tailings and other infrastructure.
Town of Wabush	Wabush's town council raised concerns about dust mitigation measures, the need for a better visual understanding of tailings management, and the visual impacts related to the height of the mine rock stockpile, tailings, and other infrastructure.	This assessment provides a better understanding of the potential visual and dust effects from the Project and recommends mitigation measures to address them.	Section 8.0 of the visual aesthetics report addresses the visual and dust mitigation measures for the mine rock stockpile, tailings and other infrastructure.

8.0 EFFECTS ASSESSMENT

This section provides the potential effects, appropriate mitigation measures and predicted residual Project effects for visual aesthetics.

8.1 Change to the Visual Landscape During Construction

8.1.1 Potential Effects

A general overview of the construction activities is provided in Section 8.0. Visual disturbances are expected to begin during the construction phase and continue incrementally towards the commencement of the operations and maintenance stage.

Construction activities related to the transportation and distribution of personnel, equipment, and materials along access roads and trails, rail line, or generally within the Project footprint will create temporary changes in visual aesthetics within the LSA and RSA.

Construction activity related to surveying and flagging, clearing and grubbing, topsoil stripping, grading, and surfacing will involve crews working progressively in localized areas along the ROW routes, access roads, and construction sites within the Project footprint. Dust control may be required for the access roads which will minimize the potential visual effect from the movement and operation of construction equipment and vehicles. Most of these construction activities and components would likely be visible only to those viewers adjacent to the sites and may be short in duration depending on the complexity of build.

New access roads will produce a disturbance in forested areas resulting from vegetation removal, grading and gravel surfacing. Changes will likely be most evident where they are visible in foreground viewing distances. The upgrade of existing access roads (e.g., widening, surface hardening) will also result in limited vegetation removal. In areas of flat terrain, roads will not be easily seen due to vegetation screening, unless viewed from a high angle viewing location.

Overall, construction activities, supporting facilities and vegetation clearing will add evidence of built industrial features that will contrast with the predominantly natural character of the LSA and RSA. However, the local setting currently includes existing disturbance patterns from roadway infrastructure, existing transmission structures, and past mining operations which will reduce the visual contrast of the Project components.

8.1.2 Mitigation Measures

Mitigation measures for effects to visual aesthetics during construction have been incorporated into the Project design and will be established to minimize negative effects. Mitigation measures considered in the potential effects analysis for visual aesthetics included the following:

- Avoiding new Project footprint disturbances, to the extent practicable, such as using existing roads and trails, and disturbed areas (e.g., area of alteration related to forestry cutblocks, utility corridors).
- Retaining existing vegetation and landforms, to the extent practicable, to provide screening of activity and Project components.
- Selection and location of structures to minimize visibility and visual contrast with the existing conditions.

- Implementation of mitigation measures and suppressants (e.g., water and/or calcium chloride) to manage fugitive dust emissions during construction activities and situations that have an increased potential to generate airborne dust. This was a mitigation measure in the Alderon EIS Change in Air Quality section that has been carried forward to this report.
- Air emissions related to the Project, as detailed in section 5.5.2.1 of the Air Quality report, will consist of fugitive releases of dust from blasting, material handling, and traffic on unpaved roads; therefore, a number of mitigation measures to control the releases of air emissions during the Construction phase of the Project have been proposed. The measures will be described in a Dust Management Plan included in the Project-specific Environmental Protection Plan (Annex 5D) and will include the following:
- Water and/or dust suppressants will be applied to unpaved roads and stockpiles during activities or temporal periods that have an increased potential to generate dust.
- Dust suppressants that minimize environmental risk and are government approved will be used.
- Vehicle speed on unpaved roads will be limited to reduce fugitive dust.
- Idling of vehicles and equipment will be limited to the extent practicable.
- Mobile mining equipment and vehicles will be maintained, and the equipment will be operated within the parameters for engine exhaust system design.
- A Project-specific Environmental Monitoring Plan that includes ambient air monitoring will be implemented.
- Exposed dust sources will be revegetated and progressive rehabilitation will be completed whenever appropriate.

The following mitigation measures and environmental design features specific to the construction phase will be employed:

- use of electric drills and shovels to reduce diesel exhaust emissions from the mining fleet;
- use of covered conveyors when required to reduce fugitive releases of dust;
- use of pollution control technology at material transfer points; and,
- maintenance of pollution control equipment (dust collectors and bin vents).

8.2 Change to the Visual Landscape During Operations, Maintenance and Closure

8.2.1 Potential Effects

The following key operation components and activities are relevant to the assessment of potential Project visual effects:

- Operation, inspection and maintenance of the rail line on a continuous basis;
- Operation, inspection and maintenance of all built structures within the Project footprint on a continuous basis;
- Mechanical vegetation management will take place periodically along all access roads, rail line ROW and adjacent to any built structures.

Maintenance activities will occur on a regular or as needed basis and visibility will be limited to viewers intermittently seeing vehicles, equipment, and maintenance personnel along access roads, rail line ROW or generally within the Project footprint. Similar to construction, these activities will be temporary and will have a localized effect on visual aesthetics. Dust control may be required for the access roads which will minimize the potential visual effect from the movement and operation of construction equipment and vehicles.

8.2.2 Project Visibility

Further visibility of the Project features was determined by counting the Project features that are visible in the photo simulations, shown in Section 8.2.3. A summary of the visible buildings (structures), stockpiles and tailings within the Project footprint from the key viewpoints is provided in Table 8. This table does not include visible mining infrastructure from existing mining operations in the LSA.

Table 8: Project Visibility from the Key Viewpoints

Viewpoint	Name	Number of Visible Structures	Number of Visible Stockpiles/Tailings
VP1	Mills Lake	0	1
VP2	Fermont Shoreline	0	0
VP3	Pike Lake	0	2
VP4	Duley Lake Provincial Park	~5	2
VP5	Duley Lake	0	2
VP6	Waldorf River	0	1
VP7	Riordan Lake	~2	2
VP8	Wabush, Our Lady of Assumption Catholic Church	0	0
VP9	Smokey Mountain	~5	2
VP10	Mont Daviault Lookout	0	2

8.2.3 Visual Contrast of Project Components

Changes in visual aesthetics were characterized by qualitatively evaluating the Project components from key viewpoints that were determined to have a view of the Project to determine the potential level of contrast of the Project within the baseline characterization environment. Simulated images of the Project elements visible from each key viewpoint were used to illustrate and evaluate the predicted visual contrast using the methods detailed in Section 8.2.3. An overall contrast rating was assigned for each key viewpoint. A summary of the visual contrast ratings is provided in Table 9, along with a rationale for the rating of each viewpoint used in the evaluation. Simulations characterizing the visual effects of the Project are shown on Figures 5 through to Figure 23.

Table 9: Visual Contrast Ratings for the Key Viewpoints

Viewpoint	Name	Visual Contrast Rating	Rationale
VP1	Mills Lake	Strong	The smooth, broad and horizontally oriented mine rock stockpile contrasts with the existing forested shoreline. The elevated height and massive scale in relation to the surrounding topography makes the mine rock stockpile visually prominent. The linear, evenly contoured slope of the landform contrasts with the undulating and irregular existing landscape. The stockpile's dark, even tone and fine textured rock surface pattern contrasts with the surrounding varied forest vegetation and is dominant within the view.

Table 9: Visual Contrast Ratings for the Key Viewpoints

Viewpoint	Name	Visual Contrast Rating	Rationale
VP2	Fermont Shoreline	None	The Project is not visible from the Fermont shoreline.
VP3	Pike Lake	Moderate	The smooth, broad and horizontally oriented mine rock and overburden stockpiles contrasts with the existing forested shoreline. The elevated height and substantial scale of the overburden stockpile in relation to the surrounding topography makes visually prominent. The linear, evenly contoured slope of the overburden stockpile contrasts with the undulating and irregular existing landscape. The overburden stockpile's dark, even tone and fine textured rock surface pattern contrasts with the surrounding varied forest vegetation and begins to attract attention within the view. The mine rock stockpile is slightly visible above the existing tree line and small within the setting.
VP4	Duley Lake Provincial Park	Moderate	The smooth, broad and horizontally oriented mine rock and tailings management facility contrasts with the existing forested landscape. The elevated height and scale of the overburden stockpile and tailings management facility in relation to the surrounding topography begins to attract attention but are small within the setting. The linear, evenly contoured slope of the overburden stockpile and tailings management facility contrasts with the undulating and irregular existing landscape. The overburden stockpile and tailings management facility dark, even tone and fine textured rock surface pattern contrasts with the surrounding varied forest vegetation. The vertically oriented buildings contrast with landforms and vegetation but are small within the setting.
VP5	Duley Lake	Strong	The smooth, broad and horizontally oriented mine rock and tailings management facility contrasts with the existing forested landscape. The elevated height and massive scale in relation to the surrounding topography makes the mine rock stockpile and tailings management facility visually prominent. The linear, evenly contoured slope of the overburden stockpile and tailings management facility contrasts with the undulating and irregular existing landscape. The tailings management facility and mine rock stockpile's dark, even tone and fine textured rock surface pattern contrasts with the surrounding varied forest vegetation and is dominant within the view.
VP6	Waldorf River	Strong	The smooth, broad and horizontally oriented mine rock stockpile contrasts with the existing forested shoreline. The elevated height and massive scale in relation to the surrounding topography makes the mine rock stockpile visually prominent. The linear, evenly contoured slope of the landform contrasts with the undulating and irregular existing landscape. The stockpile's dark, even tone and fine textured rock surface pattern contrasts with the surrounding varied forest vegetation and is dominant within the view.

Table 9: Visual Contrast Ratings for the Key Viewpoints

Viewpoint	Name	Visual Contrast Rating	Rationale
VP7	Riordan Lake	Moderate	The smooth, broad and horizontally oriented tailings management facility contrasts with the existing forested landscape. The elevated height and scale of the tailings management facility in relation to the surrounding topography begins to attract attention within the setting. The linear, evenly contoured slope of the tailings management facility contrasts with the undulating and irregular existing landscape. The tailings management facility dark, even tone and fine textured rock surface pattern contrasts with the surrounding varied forest vegetation. The vertically oriented buildings contrast with landforms and vegetation but are small within the setting. The elevated height and scale of the overburden stockpile in relation to the surrounding topography begins to attract attention but is small within the setting.
VP8	Wabush, Our Lady of Assumption Catholic Church	None	The Project is not visible from the Lady of Assumption Catholic Church in Wabush.
VP9	Smokey Mountain	Moderate	The smooth, broad and horizontally oriented tailings management facility and mine rock stockpile contrasts with the existing forested landscape however, existing disturbances from mining activity, roadways and built structures in the RSA will reduce the visual contrast. The elevated height and scale in relation to the surrounding topography makes the mine rock stockpile visually prominent. The linear, evenly contoured slope of the landforms contrasts with the undulating and irregular existing landscape. The tailings management facility, pit and stockpile's dark, even tone and fine textured rock surface pattern contrasts with the surrounding varied forest vegetation and begins to attract attention within the view.
VP10	Mont Daviault Lookout	Moderate	The smooth, broad and horizontally oriented overburden stockpile and mine rock stockpile contrasts with the existing forested landscape however, existing disturbances from mining activity, roadways and built structures in the RSA will reduce the visual contrast. The elevated height and scale in relation to the surrounding topography makes the mine rock stockpile visually prominent. The linear, evenly contoured slope of the landforms contrasts with the undulating and irregular existing landscape. The stockpile's dark, even tone and fine textured rock surface pattern contrasts with the surrounding varied forest vegetation however, previous forest clearing within the RSA will reduce the visual contrast. The stockpiles begin to attract attention within the view.

Figure 5: Viewpoint 1, Mills Lake, Existing Conditions



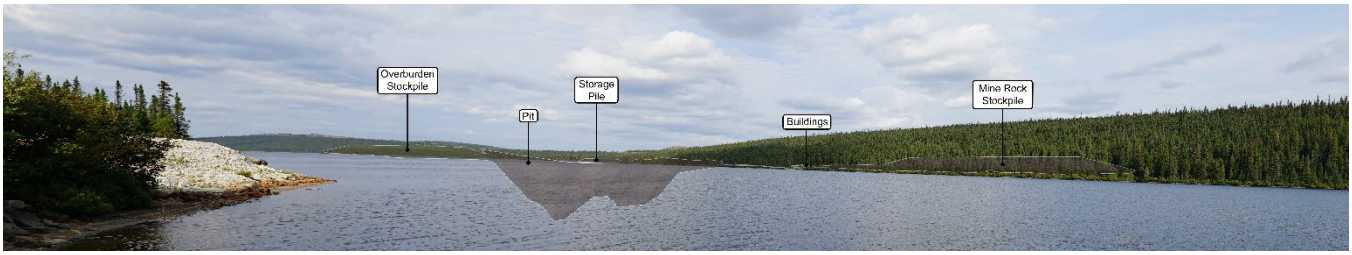
Figure 6: Viewpoint 1, Mills Lake, Operations Maintenance



Figure 7: Viewpoint 2, Fermont Shoreline, Existing Conditions



Figure 7: Viewpoint 2, Fermont Shoreline, Operations Maintenance



Note: A white outline in the simulations indicates where the Project features are positioned in the landscape behind the existing landscape topography.

Figure 8: Viewpoint 3, Pike Lake, Existing Conditions



Figure 9: Viewpoint 3, Pike Lake, Operations Maintenance



Figure 10: Viewpoint 4, Duley Lake Provincial Park, Existing Conditions



Figure 11: Viewpoint 4, Duley Lake Provincial Park, Operations Maintenance

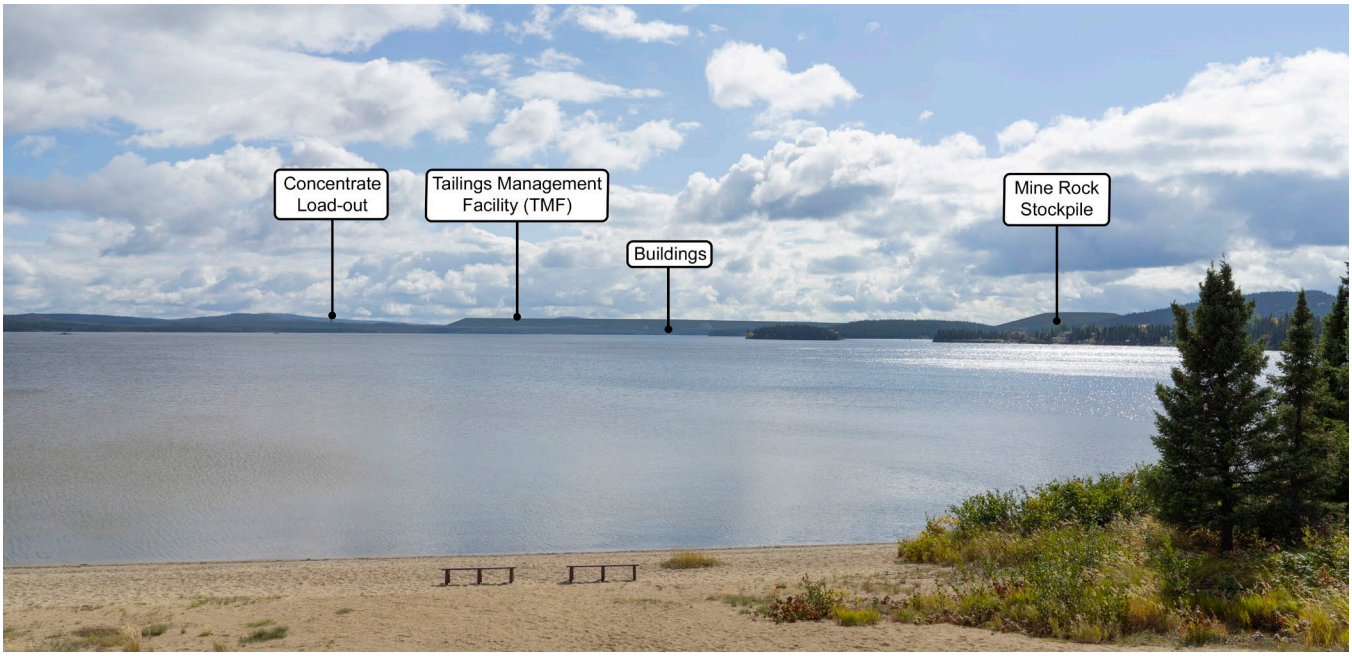


Figure 12: Viewpoint 5, Duley Lake, Existing Conditions



Figure 13: Viewpoint 5, Duley Lake, Operations Maintenance



Figure 14: Viewpoint 6, Waldorf River, Existing Conditions



Figure 15: Viewpoint 6, Waldorf River, Operations Maintenance

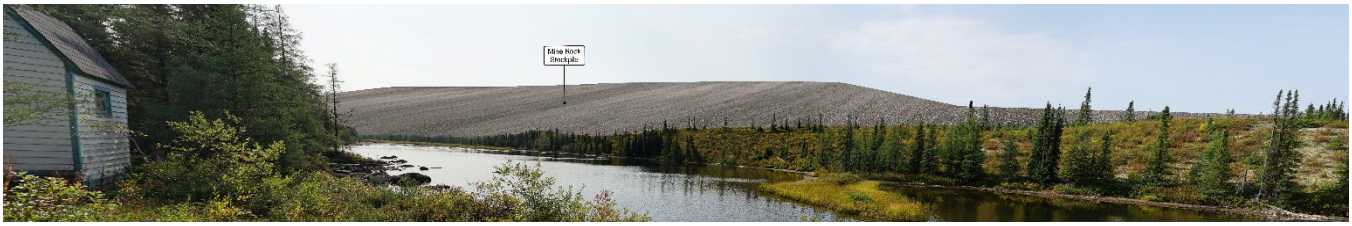


Figure 16: Viewpoint 7, Riordan Lake, Existing Conditions



Figure 17: Viewpoint 7, Riordan Lake, Operations Maintenance



Figure 18: Viewpoint 8, Wabush, Our Lady of Assumption Catholic Church, Existing Conditions



Figure 19: Viewpoint 8, Wabush, Our Lady of Assumption Catholic Church, Operations Maintenance



Note: A white outline in the simulations indicates where the Project features are positioned in the landscape behind the existing landscape topography.

Figure 20: Viewpoint 9, Smokey Mountain, Existing Conditions



Figure 21: Viewpoint 9, Smokey Mountain, Operations Maintenance

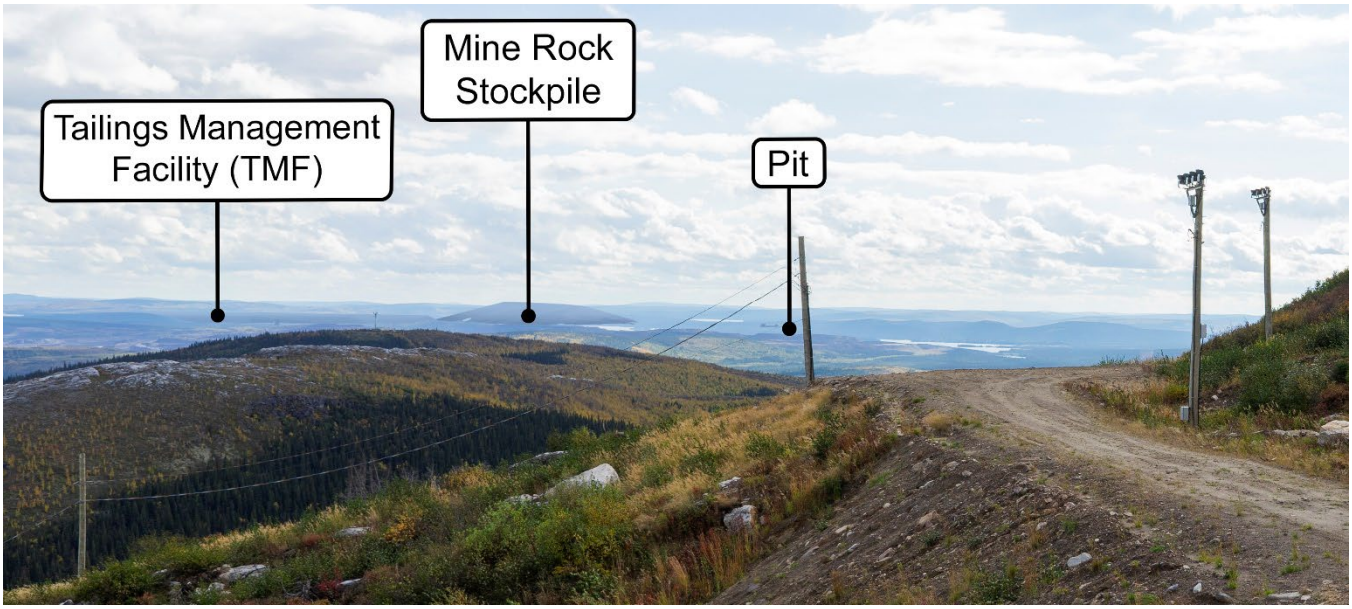


Figure 22: Viewpoint 10, Mont Daviault Lookout, Existing Conditions



Figure 23: Viewpoint 10, Mont Daviault Lookout, Operations Maintenance



8.2.4 Visual Impact of the Project

Results for visual impact ratings for each key viewpoint are summarized in Table 10.

The landscape, as viewed from VP1, VP5 and VP6, have high scenic qualities that are in strong visual contrast to the Mine Rock Stockpile that dominates the scene, resulting in a high visual impact rating.

The landscape, as viewed from Fermont at VP2 and VP8 will be unchanged with no visibility of the Project features from these locations resulting in a negligible visual impact rating. A white outline in the simulations indicates where the Project features are positioned in the landscape behind the existing landscape topography.

The landscape as viewed form VP3, VP4, VP7, and VP10 will have infrastructure that are predicted to be distant elements within the broad, panoramic view. Some Project elements, such as buildings, may be noticeable but subordinate or inconspicuous elements within the view resulting in a moderate visual impact rating.

The landscape as viewed form VP9 is already modified due to the existing mining operations, roads and built structures. Viewers at this location will experience moderate visual effects The Project's clearing of vegetation and infrastructure will result in additional alterations that may be noticeable but will be subordinate elements within the view from the outer boundary of the RSA.

Table 10: Visual Impact Ratings for the Key Viewpoints

Viewpoint	Name	Scenic Quality	Visual Contrast	Visual Impact Rating	Rationale for Impact Rating
VP1	Mills Lake	High	Strong	High	Alteration to the existing landscape through the introduction of Project components that are very evident and will partially change the existing landscape character for viewers at this location.
VP2	Fermont Shoreline	High	None	Negligible	Project will not be visible from this location.
VP3	Pike Lake	High	Moderate	Moderate	Alteration to the existing landscape through the introduction of Project components that are evident and may partially change the existing landscape character for viewers at this location
VP4	Duley Lake Provincial Park	High	Moderate	Moderate	Alteration to the existing landscape through the introduction of Project components that are evident and may partially change the existing landscape character for viewers at this location
VP5	Duley Lake	High	Strong	High	Alteration to the existing landscape through the introduction of Project components that are very evident and will partially change the existing landscape character for viewers at this location.
VP6	Waldorf River	High	Strong	High	Alteration to the existing landscape through the introduction of Project components that are very evident and will partially change the existing landscape character for viewers at this location.
VP7	Riordan Lake	High	Moderate	Moderate	Alteration to the existing landscape through the introduction of Project components that are evident and may partially change the existing landscape character for viewers at this location
VP8	Wabush, Our Lady of Assumption Catholic Church	High	None	Negligible	Project will not be visible from this location.
VP9	Smokey Mountain	High	Moderate	Moderate	Alteration to the existing landscape through the introduction of Project components that are evident and may partially change the existing landscape character for viewers at this location
VP10	Mont Daviault Lookout	High	Moderate	Moderate	Alteration to the existing landscape through the introduction of Project components that are evident and may partially change the existing landscape character for viewers at this location

8.2.5 Mitigation Measures

Mitigation measures for effects to visual aesthetics during the operations, maintenance, and closure stages have been incorporated into the Project design and will be established to minimize negative effects. Mitigation measures considered in the potential effects analysis for visual aesthetics include the following:

- Removing unnecessary facilities, and reclaiming temporary access roads and water crossings, temporary construction areas, and revegetation with native plant species to reduce contrast with the surrounding landscape throughout all phases.
- Planting on the tailings and stockpile side slopes will begin during the operations phase, to stabilize slopes, and to allow sufficient time for growth to mitigate contrast with the surrounding landscape.
- Monitor and manage reclamation activities to address potential visual effects, including soil erosion and revegetation.
- Application of water and/or suppressants should be applied to site roads and access roads as necessary.
- Use dust suppressants that minimize environmental risk and are government approved.
- Apply water sprays to stockpiles or areas that have visible dust, as necessary.
- The original location of the mine rock disposal facility was changed following consultation and concerns raised by the residents of Fermont (Alderon, 2012). This has resulted in decreased visibility of the mine rock disposal facility from the Town of Fermont.
- The power line was relocated along the road/rail right-of-way to limit visual effects from the Jean Lake hiking trail after concerns were raised by the residents of Wabush (Alderon, 2012).
- Implementation of mitigation measures and suppressants (e.g., water and/or calcium chloride) to manage fugitive dust emissions during mining activities and situations that have an increased potential to generate airborne dust. This was a mitigation measure in the Alderon EIS Change in Air Quality section that has been carried forward to the 2025 EIS.
- Air emissions related to the Project, as detailed in Section 5.5.2.1 of the Air Quality report, will consist of fugitive releases of dust from blasting, material handling, and traffic on unpaved roads; therefore, a number of mitigation measures to control the releases of air emissions during the Operations, Maintenance and Closure phases of the Project have been proposed. The measures will be described in a Dust Management Plan included in the Annex 5D of the EIS and will include the following:
  - Water and/or dust suppressants will be applied to unpaved roads and stockpiles during activities or temporal periods that have an increased potential to generate dust.
  - Dust suppressants that minimize environmental risk and are government approved will be used.
  - Vehicle speed on unpaved roads will be limited to reduce fugitive dust.
  - Idling of vehicles and equipment will be limited to the extent practicable.
  - Mobile mining equipment and vehicles will be maintained, and the equipment will be operated within the parameters for engine exhaust system design.

- A Project-specific Environmental Effects Monitoring Program (Annex 5E of the EIS) that includes ambient air monitoring will be implemented.
- Exposed dust sources will be revegetated and progressive rehabilitation will be completed whenever appropriate.

The following mitigation measures and environmental design features specific to the Operations phase will be employed:

- Use of electric drills and shovels to reduce diesel exhaust emissions from the mining fleet;
- Use of covered conveyors when required to reduce fugitive releases of dust;
- Use of pollution control technology at material transfer points; and
- Maintenance of pollution control equipment (dust collectors and bin vents).

8.2.6 Residual Effects

The effects assessment approach followed the general process described in this section.

Results from the visual impact assessment rating were used to determine the magnitude of residual effects on visual aesthetics as this rating provides an indication of the predicted intensity of the residual effect as described in Table 11.

Table 11: Magnitude Effect Levels for Visual Aesthetics

Residual Effect	Negligible	Low	Moderate	High
Residual change to the visual landscape from existing conditions	Effect is not visible and/or the visual impact is assessed as predominately negligible; there is no discernable negative change compared to baseline.	Effect has limited or no visibility and/or visual impact is low; there is minimal visual change compared to baseline	Effect is visible and/or visual impact is moderate; there is evident visual change compared to baseline.	Effect is highly visible and/or visual impact is high; there is a substantial visual change compared to baseline.

Construction of the Project will require use of land for temporary activities related to construction camps, access roads and related temporary facilities, some of which may be reclaimed following construction resulting in a continual residual effect with a short-term duration. Disturbance related to vegetation clearing for stockpiles, tailings, building infrastructure, road and rail access will be long-term and reclaimed following operations. Construction of the stockpiles and tailings management facility will persist for the life of the Project and will be reclaimed after operations phase. The proposed mitigation measures will partially address potential visual effects associated with the Project. For most viewing locations of the Project during the construction stage, the negative effect would be of low magnitude as visibility would be partially or fully obstructed by surrounding vegetation and topography. Locations closer to the Project footprint may experience greater visual effects; however, considering the presence of previous mining operations on the landscape, the residual effects are expected to be moderate. The geographic extent of the residual effect would be limited to viewing opportunities in the RSA; however, the Project effects would be most discernible within the LSA. Overall, the residual effects of the Project during construction are expected to have a low magnitude.

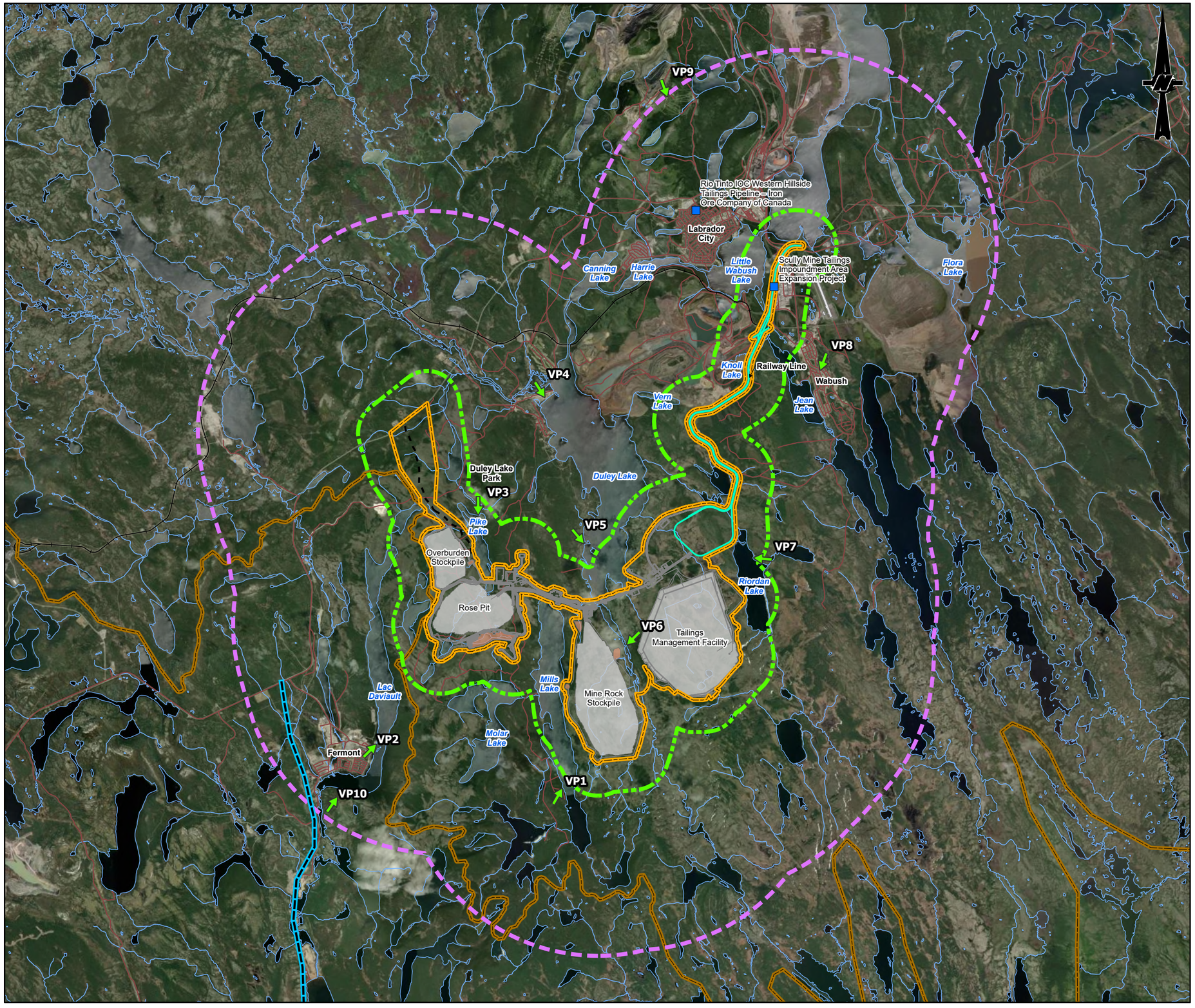
Operation, maintenance and closure of the Project will result in long-term and continual changes to the landscape related to the presence of vegetation clearing, infrastructure, roads, rail, stockpiles and tailings within the SSA. The proposed mitigation measures will partially address potential visual effects associated with the Project. The visual impact rating for the ten key viewpoints includes three viewpoints with a high visual impact rating, five with a moderate visual impact rating, and two with a low visual impact rating, which represent the range of different types of viewpoints available in the RSA. The visual impacts from areas with the RSA are expected to be high to low magnitude depending on the proximity of the area to the Project and considering the presence of previous mining operations on the landscape. For most other viewing locations outside the RSA that are not identified as key viewpoints, the residual effect would be of negligible to low magnitude as visibility of the Project would be partially or fully obstructed by surrounding vegetation or the visible Project components would blend readily into the disturbance patterns such forest harvesting. The geographic extent of the residual effect during Operation, maintenance and closure would be limited to viewing opportunities in the RSA; however, the Project effects would be most discernible within the LSA. Overall, the residual effects of the Project during operations and maintenance are expected to have a moderate magnitude.

8.2.7 Cumulative Effects Assessment

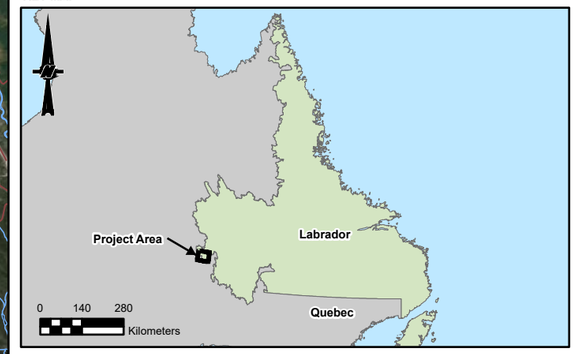
In addition to assessing the residual effects of the Project, this assessment also evaluates and assesses the cumulative effects of the Project that interact temporally and spatially with other existing or reasonably foreseeable developments (RFDs) in the RSA, since the combined effects may differ in nature or extent from the effects of individual Project activities. Where information is available, the cumulative effects assessment estimates or predicts the contribution of effects from the Project and other developments in the RSA, in the context of natural changes in the environment. For purposes of this assessment, the residual effect of change to the visual landscape from existing conditions was carried forward to a cumulative effects assessment if spatial and temporal overlap exists with other RFDs.

The cumulative effects assessment for visual aesthetics is primarily qualitative and presents a reasoned narrative describing the outcomes of interacting cumulative effects for visual aesthetics criteria. Three projects were identified to have a spatial and temporal overlap with the Project and therefore have the potential to contribute to the cumulative effects. The three RFDs are listed below and their spatial overlap with the visual aesthetics spatial boundaries is presented in Figure 24:

- Route 389 Improvement Project between Fire Lake and Fermont
- Rio Tinto IOC Western Hillside Tailings Pipeline – Iron Ore Company of Canada; and
- Scully Mine Tailings Impoundment Area Expansion Project



KEY MAP



SCALE 1:20,000,000

Legend

- Reasonably Foreseeable Developments
- Viewpoint Location and Direction
- Proposed Road 389 Between Fermont and Fire Lake
- Proposed Project Infrastructure (Linear)
- Potential Access Road
- Proposed Access Road and Railway Corridor
- Existing Railway
- Existing Road
- River/Stream
- Proposed Project Infrastructure
- Proposed Sedimentation Pond
- Site Study Area (SSA)
- Local Study Area (LSA)
- Regional Study Area (RSA)
- Labrador/Quebec Boundary

0 1 2 4
1:120,000 KILOMETRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. IMAGERY CREDITS: WORLD IMAGERY: EARTHSTAR GEOGRAPHICS
2. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE
REASONABLY FORESEEABLE DEVELOPMENTS

CONSULTANT

YYYY-MM-DD	2025-07-04
DESIGNED	----
PREPARED	PJM/MS
REVIEWED	BK
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	0	24

PATH: S:\Clients\Champion_Iron_Ore_Mines\Kami Iron Ore\99_PROJ\CA0038713.5261_EIS\40_PROD\0001_Visual\CA0038713-5261-0001-XV-0000.aprx PRINTED ON: AT: 10:33:50 AM
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The Route 389 Improvement Project between Fire Lake and Fermont is a road construction project that is expected to be constructed prior to the construction of the Kami Mining Project. The project could result in additional public receptor visibility of the Kami Mining Project from the new road alignment, as well as provide new access to recreational areas where the Project may be visible. However, due to the existing terrain that prevents visibility of the Project from Fermont and distance between the two Projects, the likelihood of new infrastructure or disturbance from the two Projects being visible at the same time from any given location and in turn cumulative effects, between the two Projects are not anticipated.

The Scully Mine Tailings Impoundment Area Expansion Project is expected to overlap with the Kami construction and operation phases and within the RSA. There is potential for cumulative visual effects within the LSA and RSA from construction and operation activities of both projects, including vegetation clearing, dust generation and visibility of project infrastructure. However, due to the visual disturbance from the existing Scully Mine Tailings Impoundment facility and the likelihood of new infrastructure or disturbance from the two Projects being visible at the same time from any given location, no additional cumulative effects are anticipated, and the residual cumulative effects are predicted to similar to the Project-related residual effects (i.e., moderate magnitude).

The Rio Tinto IOC Western Hillside Tailings Pipeline project is expected to overlap with the Kami construction and operation phases and within the RSA. There is potential for cumulative visual effects within the RSA from construction and operation activities of both projects, including vegetation clearing, dust generation and visibility of project infrastructure. However, due to the visual disturbance from the existing Rio Tinto IOC mining operations and the likelihood of new infrastructure or disturbance from the two Projects being visible at the same time from any given location, no additional cumulative effects are anticipated, and the residual cumulative effects are predicted to similar to the Project-related residual effects (i.e., moderate magnitude).

Table 12 summarizes the RFD projects and their potential interaction with the Kami Mining Project.

Table 12: Projects and Activities Considered in the Cumulative Effects Assessment

Project Name or Physical Activity	Description of Project	Approximate Direct Distance to Kami Mining Project Site	Status/Timing	Interaction with Residual Effects on Wildlife from Kami Mining Project
Route 389 Improvement Project between Fire Lake and Fermont	Improving Route 389 between Fire Lake and Fermont (kilometres 478 to 564) to increase the flow and safety of the road and, in addition, improve the link with Newfoundland and Labrador as well as facilitate access to natural resources. The project is divided into three sections: ■ Segment 1 – between kilometres 478 and 496: new alignment; ■ Segment 2 – between kilometres 496 and 507: major road rehabilitation; ■ Section 3 – between kilometres 507 and 566: new 45-kilometre route.	6 to 93 km	■ Environmental Assessment approved in 2019 ■ Construction began 2023, to continue to 2028	Deforestation of road right-of-way, construction disturbance (e.g., industrial traffic, dust), potential public receptor visibility of the Kami Mining Project from the new road alignment and modified access to new recreation areas. Due to the timing of the two projects and existing terrain preventing visibility of the Kami Mining Project, no additional cumulative effects are anticipated.
Rio Tinto IOC Western Hillside Tailings Pipeline – Iron Ore Company of Canada	New tailings management plan that would include optimizing available space of the existing Wabush Lake tailings storage facility and utilizing the Western Hillside. The Project would include the development of an access road and pipeline alignment, transmission lines, pumps and pumphouses, and a modified strategy for deposition of tailings into Wabush Lake.	15 km	■ Minister announced the project is released from an Environmental Assessment on May 17, 2024. ■ Work anticipated to start in 2024 and continue into 2033.	There is potential for cumulative visual effects within the RSA from construction and operation activities of both projects, including vegetation clearing, dust generation and visibility of project infrastructure. However, due to the visual disturbance from the existing Rio Tinto IOC mining operations and the likelihood of new infrastructure or disturbance from the two Projects being visible at the same time from any given location, no additional cumulative effects are anticipated, and the residual cumulative effects are predicted to similar to the Project-related residual effects (i.e., moderate magnitude).

Table 12: Projects and Activities Considered in the Cumulative Effects Assessment

Project Name or Physical Activity	Description of Project	Approximate Direct Distance to Kami Mining Project Site	Status/Timing	Interaction with Residual Effects on Wildlife from Kami Mining Project
Scully Mine Tailings Impoundment Area Expansion Project	TACORA Resources Inc. is proposing to expand the tailings impoundment area of the Scully Mine, an iron ore mine located in Wabush, Newfoundland and Labrador. As proposed, the Scully Mine Tailings Impoundment Area Expansion Project would expand the existing tailings impoundment area by up to 1,411 hectares, allowing for the full use of the mine's ore reserves and for operations to continue until 2047. The existing tailings impoundment area is expected to reach full capacity around 2025.	13 km	▪ The minister announced that the project was approved under the provincial Environmental Assessment on March 31, 2022. ▪ Anticipated start in 2025 and expand operations by 22 years	There is potential for cumulative visual effects within the LSA and RSA from construction and operation activities of both projects, including vegetation clearing, dust generation and visibility of project infrastructure. However, due to the visual disturbance from the existing Scully Mine Tailings Impoundment facility and the likelihood of new infrastructure or disturbance from the two Projects being visible at the same time from any given location, no additional cumulative effects are anticipated, and the residual cumulative effects are predicted to similar to the Project-related residual effects (i.e., moderate magnitude).

9.0 SUMMARY OF POTENTIAL EFFECTS, MITIGATION MEASURES, AND PREDICTED RESIDUAL EFFECTS

The visual effects assessment completed for the 2012 Alderon EIS and this report reached many of the same conclusions and recommendations with regards to potential effects, mitigation measures and residual effects, including the following:

- Most of the adverse visual effects would occur during the construction, operations and maintenance phases.
- The effects will be continuous throughout the construction, operations and maintenance phases of the project.
- The project will not be a unique feature on the landscape as there are existing and previous mining operations in the RSA.
- The project would most likely not be visible from the towns of Fermont, Labrador City and Wabush.
- The visual effects of the mine rock stockpile was mitigated by moving the stockpile to the east of Mills Lake where it is not visible from the Town of Fermont, as shown in the photo simulations from the Lac Daviault shoreline in the 2012 Alderon EIS and this report.
- Starting to rehabilitate the Tailings Management Facility during the operations phase.
- Most of the visual effects can be reversed through rehabilitation.

Given the findings in Section 8.2.4, this assessment predicts that temporary visual impacts can be minimized by implementing the identified mitigation measures. Upon the implementation of the recommendations in Section 8.2.5 of this report, the Project may still have some unacceptable visual impacts from the tailings and stockpiles on surrounding land uses. Project visibility, from the majority of viewing locations, will be predominately limited to the establishment of vegetation on the tailings and stockpiles to help mitigate the visibility of the tailings and stockpiles. The end goal will be to have the tailings and stockpiles resemble the rolling vegetated hills in the surrounding landscape. At higher elevations, such as from Smokey Mountain, viewers will see much more of the Project site, including the pit and areas that are cleared for infrastructure. Reclamation activities should begin during the operations phase. After the final rehabilitation of tailings and stockpiles is complete, the resulting natural landscape will feature three vegetated landforms that resemble the surrounding hills and a mosaic of woodlands, grasslands and wetlands that will complement and enhance the current natural, industrial, and development patterns landscape aesthetic.

10.0 DATA LIMITATIONS AND ASSUMPTIONS STUDY RESULTS

This Visual Aesthetics Desktop Baseline Study and Assessment was prepared for Champion Iron by WSP Canada Limited. The quality of information, conclusions and scheduling estimates contained herein is consistent with the level of effort involved in WSP's services and based on: i) information available at the time of preparation; ii) data supplied by outside sources; and iii) the assumptions, conditions and qualifications set forth in this report.

At the time of writing this visual impact report, digital surface model (DSM) data that includes ground surface topography as well as surface features such as trees, vegetation, buildings, etc., was not available. When a viewshed analysis is conducted with a DSM, surface features act as a screen for visibility. Therefore, for the purposes of this report, ground surface topography was used for the viewshed analysis, depicted in Figure 3, which is a more conservative approach since there are no surface features to screen visibility and greater areas of the landscape will show as visible, such as areas around the towns of Fermont, Labrador City and Wabush. The photo simulations from Wabush show that the Project is not visible, and field staff verified that the Project would not be visible from the Labrador City. The visual impact of the Project on the town of Fermont is negligible since the Project is not visible from the shoreline, as discussed in Section 8.2.4. However, if there are locations within the Town of Fermont that have visibility of the Project, we expect the visual impact to be low based on the viewing distance and local topography. Photographs from additional viewpoints would likely produce similar simulations to those already created for the existing key viewpoints and would not change the overall visual impact rating of moderate.

Signature Page

WSP Canada Inc.



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VRM/PM/LH/JMC

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Kami Mining Project

Champion Kami Partner Inc.

Wabush, NL

TSD XI: Human Health Risk Assessment Modelling Report

Environmental Impact Statement

Document Number: CA00387135261-R-Rev0-TSD_XI_Human Health Risk Assessment Modelling Report

June 2025

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REPORT

Human Health Risk Assessment

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June 2025



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Executive Summary

This technical supporting document presents the Human Health Risk Assessment (HHRA) for the Kamistiatusset (Kami) Iron Ore Mine Project (the Project), a proposed iron ore mine in Labrador West, in the province of Newfoundland and Labrador (NL). The objective of the HHRA was to assess potential human health risks associated with changes in environmental quality due to contaminant releases from the Project.

The HHRA evaluated the potential risks to human health from inhalation exposure and from multi- media exposure (i.e., ingestion and dermal contact), with the following objectives:

- The objective of the inhalation HHRA was to evaluate the potential risks to human health from exposure to contaminants emitted to air from the Project, which may pose a potential health risk following short-term or acute exposure (e.g., 1-hour and 24-hour averaging period) and long-term or chronic exposure (e.g., annual averaging period).
- The objective of the multi-pathway HHRA was to evaluate the potential risks to human health from exposure to contaminants that are released from the Project to soil due to aerial deposition and to surface water due water discharges, which may pose a potential health risk following long-term or chronic exposure from ingestion of soil, surface water, and country foods, and from dermal contact with soil and surface water.

The following types of contaminants that may be emitted into the environment from the Project were assessed in the HHRA:

- Criteria air contaminants (CACs);
- Metals and Metalloids;
- Polycyclic aromatic hydrocarbons (PAHs); and
- Major ions, nutrients, total dissolved solids (TDS).

Health risks from these contaminants were assessed for human receptors at sensitive areas (receptor locations) throughout the local study area (LSA; a 40 km by 40 km boundary from the centre of the Project) by comparing health risks associated with the predicted Project-related changes to the environment to the existing (or baseline) environment. The HHRA evaluated potential health risks to the following receptors

- **Cabin Resident – Permanent and Seasonal**—Based on knowledge of the area, the cabin resident included individuals who reside in the cabins within the LSA, consume local country foods, obtain drinking water from lakes, and engage in recreational activities such as swimming and hiking. The cabin resident could be exposed to Project-related impacts to air, soil, surface water, fish, wild game, berries, Traditional plants, and backyard garden produce. Both a permanent and seasonal cabin resident were evaluated to understand a potential upper and lower limit of exposure. The permanent cabin resident was assumed to be exposed to Project-related impacts every day and have a high reliance on country foods as part of their diet, whereas the seasonal cabin resident was assumed to be present in the LSA seasonally and have a moderate reliance on country foods.
- **Urban Resident**—The urban resident included individuals who permanently reside in the communities within the LSA, including in Wabush, Labrador City, and Fermont. These receptors could be exposed to Project-related impacts to air, soil, and garden produce every day.

- **Recreational/Land User**—The recreational/land user included individuals who may seasonally engage in recreational or land use activities (i.e., swimming, hiking, camping, fishing, hunting, gathering) within the LSA. These receptors could include any life stage and were assumed to be ocassionally exposed to Project-related impacts to air.
- **Commercial User**—The commercial user included individuals who attend institutional facilities (i.e., schools and hospitals) within the LSA, and could be exposed to Project-related impacts to air and soil.
- **Indigenous Persons—**Indigenous persons may use the LSA for Traditional purposes. However, the Indigenous communities and core areas for Traditional land use are outside of the LSA. Therefore, it was assumed that the Indigenous person is an individual who may visit Traditional land use areas within the LSA (i.e., trapping routes, cabins, and camp sites) for hunting and gathering activities occasionally/seasonally. For the HHRA, the permanent cabin resident would be present in the LSA year-round and thus represents the worst-case scenario for the evaluation of exposure pathways common to both the Indigenous person and permanent cabin resident (e.g., air inhalation, direct contact with soil and surface water, and consumption of country foods). As a result, exposures and risks estimated for the permanent cabin resident would represent a bounding scenario for the Indigenous person, who has less frequent exposure.

For the assessment of inhalation exposures, predicted changes to air quality during the Project were modelled by the air quality discipline for 1-hour, 24-hour, and annual averaging periods. Comparison of the maximum predicted air concentrations to health-based criteria indicated that most chemicals met their respective criteria or acceptable risk estimates except for the following:

- nitrogen dioxide, aluminum, manganese, crystalline silica for the 1-hour averaging period;
- particulate matter less than 2.5 µm in diameter ($PM_{2.5}$), aluminum and manganese for the 24-hour averaging period; and
- nitrogen dioxide, manganese, crystalline silica and diesel particulate matter (DPM) for the annual averaging period.

Overall, potential health risks from inhalation were negligible in consideration of:

- the low likelihood of people being present at the exact location and exact time of the predicted exceedances of the acute (1-hour and 24-hour) health-based exposure limits;
- the average (rather than 95th percentile) concentrations of metals and metalloids, as it is unlikely that people will be continuously exposed to upper limit concentrations over the duration of the Project (initial risk estimates applied the 95th percentile concentration of metals and metalloids in ore rock to be mined consistent with Chapter 5, Air Quality and Climate of the Environmental Impact Statement [EIS], but this is an overly conservative assumption that overestimates the potential exposure concentrations to receptors);
- the intermittent presence of people at recreational land use areas close to the Project where predicted concentrations were the highest;
- the concentration of toxicologically relevant respirable fraction of metals and metalloids associated with particulate matter that can enter the respiratory tract; and,
- the conservative assumptions underlying the predicted air concentrations (outlined in Section 8) resulting in overestimated potential exposures.

For the multi-pathway assessment, predicted changes to soil quality (i.e., due to aerial deposition of dust) and water quality (i.e., due to effluent discharge) were modelled by the air quality and water quality disciplines. Predicted changes to country food concentrations (e.g., berries, wild game, and fish) were also modelled based on the changes to soil and air quality or water quality. Comparison of the predicted concentrations to health-based criteria or comparison of estimated exposure doses from all potential exposure pathways to toxicological thresholds indicated that all chemicals met their respective criteria and/or were associated with acceptable risk estimates.

The conclusions of the HHRA were consistent with those of the HHRA prepared by Alderon (2012). The Alderon HHRA concluded that no adverse effects upon the physical health of humans within the LSA were expected during any phase of the Project.

Although negligible health risks were identified in the HHRA, air and water monitoring, as outlined in the Environmental Effects Monitoring Program (EEMP; Annex 5E of the EIS) is recommended to confirm the predictions considered in the HHRA and verify if future air and water concentrations reflect predicted concentrations and therefore by extension predicted health risks.

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1.0 INTRODUCTION

This technical supporting document presents the HHRA for the Kamistiatusset (Kami) Iron Ore Mine Project (the Project), a proposed iron ore mine in Labrador West, in the province of NL. The objective of the HHRA is to assess potential human health risks associated with changes in environmental quality due to contaminant releases from the Project.

The Project was originally proposed by the Alderon Iron Ore Corporation (Alderon) and underwent a provincial and federal environmental impact assessment from 2011 to 2013, including a comprehensive baseline program that was completed in 2011 and 2012 (Alderon 2012). The Project was released from the provincial and federal Environmental Assessment process in 2014. In 2021, Champion Iron Mines Ltd. (Champion) completed the acquisition of the Project from Alderon.

The purpose of this HHRA is to fulfill the environmental assessment scope outlined in the *Environmental Impact Statement Guidelines for Kami Iron Ore Mine, Labrador West, NL, Champion Iron Mines Ltd.* (EIS Guidelines) issued by the NL Minister of Environment and Climate Change (the Minister) (Government of Newfoundland and Labrador 2024). Specifically, Section 6.2 (e.) of the EIS Guidelines states that the EIS shall contain a comprehensive analysis of the predicted environmental effects of the Project on:

"Communities – Effects of all phases of the Project on human health and quality of life, including, but not limited to, the following: i) …noise emissions and noise levels…, iii) dust and air emissions, including atmospheric dispersion modelling of air emissions from the project and the results compared to acceptable standards…, v. private, semi-private and public drinking water systems."

While HHRA is not mentioned directly in the EIS Guidelines, HHRA is the accepted approach to quantitatively assess physical effects on human health. As a result, this HHRA has focused on air quality, soil quality, potential contamination of country foods (e.g., berries, fish, and wild game), and drinking water quality. On-site worker health and safety will be protected through compliance with appropriate workplace practices following requirements defined in NL regulations and other regulatory instruments; therefore, on-site workers were not evaluated in the HHRA. Noise exposure is evaluated in Chapter 6 (Noise, Vibration and Light) of the EIS (Champion 2025).

The use of a HHRA to evaluate risks to human health is a scientific approach endorsed by Health Canada. However, it is acknowledged that the definition of health can encompass more than the physical aspect of health, which is the focus of an HHRA. It is also acknowledged that the perception of potential risks to health by people can incorporate aspects such as psychological stress, a sense of wellbeing and other non-physical indicators of health. Although these aspects are important in an overall evaluation of impact to the human environment, they cannot be evaluated using a scientific approach such as an HHRA. These aspects will be evaluated in Chapter 17 (Community Health and Well-Being) of the EIS (Champion 2025).

The outline of the HHRA is as follows:

- **Section 2.0 Human Health Risk Assessment Framework and Approach:** provides an overview of the HHRA process, the applicable regulatory guidance and environmental quality criteria, and discusses how the HHRA will be conducted.
- **Section 3.0 Site Characterization:** describes the hydrological and geological aspects in and around the Project, defines the areas that will be assessed from Project-related impacts, provides an overview of the various Project phases and durations, and discusses the associated contaminants.

- **Section 4.0 Problem Formulation:** presents the receptor and exposure pathway selection, and screening of contaminants of potential concern for the inhalation and multi-pathway assessments. This information is summarized in a conceptual site model for the HHRA.
- **Section 5.0 Exposure Assessment:** provides the assumptions used to characterize human exposure to contaminants of potential concern (COPCs) in environmental media and provides exposure estimates for the inhalation and multi-pathway assessments.
- **Section 6.0 Toxicity Assessment:** presents the determination of the dose to which a receptor can be exposed to without experiencing adverse health effects and presents the toxicity reference values used in the inhalation and multi-pathway assessments.
- **Section 7.0 Risk Characterization:** provides the interpretations of potential risks to human health from inhalation exposure because of Project-related changes to air quality, and from cumulative exposures because of Project-related changes to soil and water quality**,** as well as changes to country foods (i.e., fish, wild game, berries, Traditional plants, garden produce) as a result of soil and water quality.
- **Section 8.0 Uncertainties:** Describes the uncertainties in the inhalation and multi-pathway assessments.
- **Section 9.0 Conclusions:** summarizes the outcomes of the inhalation and multi-pathway assessments.

2.0 HUMAN HEALTH RISK ASSESSMENT FRAMEWORK AND APPROACH

2.1 Framework

Potential effects on human health from physical stressors (i.e., contaminants) were determined through a HHRA consistent with the risk assessment framework and methodology endorsed by federal and provincial regulatory agencies, including:

- Health Canada, Preliminary Qualitative Risk Assessment (2024)
- Health Canada, Detailed Qualitative Risk Assessment (2010a)
- Health Canada Guidance for Evaluating Human Health Effects in Impact Assessment: Air Quality (2023a), Drinking and Recreational Water Quality (2023b), and Human Health Risk Assessment (2023c)
- Health Canada, Supplemental Guidance on Human Health Risk Assessment for Country Foods (2010b)

Risk assessment is a scientific tool used to characterize the nature and magnitude of potential risks, if any, associated with the exposure of receptors (i.e., humans, terrestrial wildlife, aquatic life) to contaminants. For there to be a potential risk, the following three conditions must be met:

- A contaminant must be present at levels that could be harmful (referred to as a contaminant of potential concern in this report);
- A receptor must be present; and,
- There must be an exposure pathway by which the receptor can contact the contaminant.

These three conditions are illustrated in Figure 1, where risk is anticipated to occur when the three necessary conditions are met.

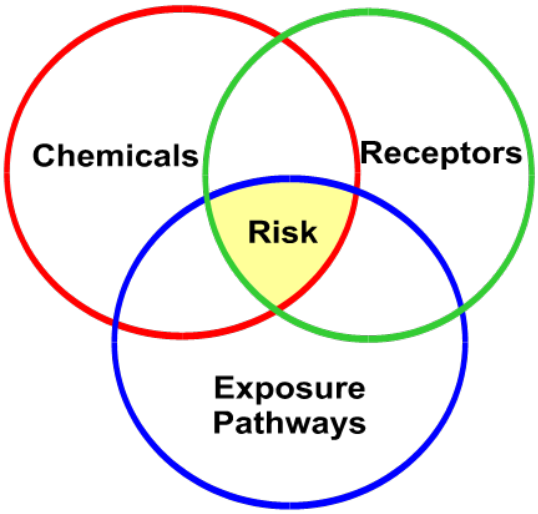


Figure 1: Venn Diagram Showing the Three Conditions that must Exist for there to be a Potential Risk to Ecological or Human Health (modified from CCME 1996)

The risk assessment framework includes four components:

- **Problem Formulation:** The problem formulation identifies the environmental stressors (contaminants) emitted by the Project that may be present at levels harmful to people (receptors) located near the Project and the pathways by which receptors may be exposed to environmental stressors released by the Project. The information from the problem formulation is summarized in a conceptual site model (CSM), which illustrates how receptors can potentially encounter environmental stressors emitted by the Project.
- **Exposure Assessment:** The exposure assessment involves characterizing the degree to which receptors are exposed to environmental stressors for the COPCs and exposure pathways retained for further evaluation following the problem formulation.
- **Toxicity Assessment:** The toxicity assessment provides the basis for assessing what is an acceptable exposure and what level of exposure may adversely affect the health of receptors. This involves the identification of the potentially toxic effects of a COPC (i.e., toxicity classification) and determination of the concentration or dose to which a receptor can be exposed without experiencing adverse health effects (i.e., dose-response analysis). This value is called a benchmark or toxicity reference value (TRV). Consideration is given to both non-carcinogenic and carcinogenic effects when deriving TRVs.
- **Risk Characterization:** The risk characterization determines the potential for adverse health effects on receptors to occur. This is assessed by comparing the estimated exposures (i.e., from the exposure assessment) with those exposures that are associated with no adverse health effects (i.e., from the toxicity assessment). The characterization of health risks includes consideration of the uncertainty and conservatism in the risk assessment.

2.2 Approach

Given that this HHRA was completed as part of an EIS, the objective of the HHRA is to evaluate the potential risks to human health from the Project.

The HHRA provided here evaluated the potential risks to human health from inhalation exposure and from multi-media exposure (i.e., ingestion and dermal contact). The inhalation assessment evaluated exposure to contaminants and particulate matter that are emitted to air from the Project, which may pose a potential health risk following short-term or acute exposure (e.g., 1-hour and 24-hour averaging period) and long-term or chronic exposure (e.g., annual averaging period). The multi-pathway assessment evaluated exposure to contaminants that are released from the Project to soil and surface water due to aerial deposition and water discharges, which may pose a health risk following long-term or chronic exposure.

The following assessment cases were evaluated in the HHRA to evaluate the risks associated with changes to environmental quality due to the Project:

- The Base Case evaluates potential human health risks from contaminant concentrations in the existing environment (i.e., measured ambient air concentrations and water concentrations prior to implementation of the Project).
- The Project Alone Case evaluates potential human health risks from predicted incremental changes to contaminant concentrations in the environment associated with the Project, including Operations and Closure phases and Post-closure period (i.e., concentrations that do not consider the contribution that Base Case concentrations make to overall exposure).
- The Base + Project Case evaluates potential human health risks from contaminant concentrations in the existing environment in addition to predicted incremental changes to contaminant concentrations in the environment associated with the Project. For surface water exposures, the Base + Project Case represents the predicted surface water concentrations within Duley Lake during the Project (as described in Section 4.3.2.2).

3.0 SITE CHARACTERIZATION

3.1 Regional Setting

The Project site is located entirely in Labrador, approximately 7 km from the Town of Wabush, 10 km south of the Town of Labrador City, and 5 km east of Town of Fermont, Québec (Figure 2).

The Project area overlies rocks from the Paleoproterozoic Era. Surficial materials are dominated by till (moraine) followed by organic accumulations. Soils are generally Brunisols and Podzols, with some areas of organic soils. The soils have very low pH values (<3.5) in the upper soil horizons and very high coarse fragment content. Mineral soils were generally classified to be at a moderate risk for wind erosion, very low risk for water erosion, and low risk for soil compaction. Over half of the area is classified as well drained and less than a quarter of the area is very poorly drained. The remaining area is mapped as either imperfectly to poorly drained due to fluctuating water tables, inundation, or seepage.

The drainage pattern within the vicinity of the Project is directed north and east through a network of watercourses, lakes, and wetlands that are part of the Churchill River watershed headwaters. The west portion of the proposed Project site drains into Pike Lake, which then is collected by several lakes and streams connected to the Walsh River and discharging into Duley Lake from the north. The south portion of the proposed Project site follows an in-line lake pattern in the following order: Molar Lake, Mills Lake, and Duley Lake. The Waldorf River and several

streams from the south and southeast drain into Duley Lake. One of these streams in the east connects Riordan Lake into Duley Lake. Finally, Duley Lake drains into Canning Lake and Harrie Lake on the northwest. The major surface water features around the Project are shown in Figure 3.

Groundwater flow direction from the Project site generally follows topography from upland territories to valleys. Detailed information on groundwater flow direction is provided in Chapter 7 (Groundwater) of the EIS (Section 7.4.4; Champion 2025).

There are several cabins located around the lakes adjacent to the Project area, particularly Duley Lake, Riordan Lake, and Mills Lake. Duley Lake Provincial Park and the Duley Lake Provincial Nature Reserve are located north of the Project near Duley Lake.

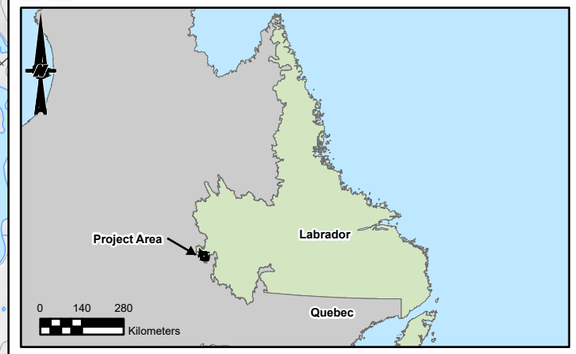
Recreational land use areas have also been identified around the Project that include snowmobile trails, trapping routes, and camping locations for hunting and gathering activities.

The surrounding municipalities of Fermont, Labrador City, and Wabush use surface water resources as their drinking water supply; no municipal groundwater supplies are found within the regional study area (RSA). Specific drinking water sources for each municipality include Beverly Lake (Beverly Lake Watershed) for Labrador City, Wahnahnish Lake (Wahnahnish Lake Watershed) for Wabush, and Lake Perchard for Fermont.

There are also several private wells present within the RSA; however, only one well falls within the LSA where impacts to groundwater are measurable and anticipated (e.g., on the southwest shore of Duley Lake) as detailed in Chapter 7 of the EIS (Section 7.4.7 and Figure 7-1; Champion 2025).

Labrador City
Wabush
Duley Park
Overburden Stockpile
Rose Pit
Tailings Management Area
Mine Rock Stockpile
Fermont

KEY MAP



SCALE 1:20,000,000

Legend

PROJECT DATA
- Proposed Project Infrastructure
- Proposed Sediment Pond
- Potential Access Road

BASEMAP INFORMATION
- Road
- Railway
- Watercourse
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 1,000 2,000 4,000
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NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE
PROJECT LOCATION AND SITE LAYOUT

CONSULTANT

YYYY-MM-DD	2025-05-23
DESIGNED	----
PREPARED	GM
REVIEWED	LF
APPROVED	RJ

PROJECT NO.	CONTROL	REV.	FIGURE
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3.2 Study Areas

The spatial boundaries for the HHRA are defined to be the same study areas identified by the air quality and water quality disciplines. This is because these disciplines estimated the predicted Project-related changes to air quality and water quality to support the HHRA for the Project. The study areas include:

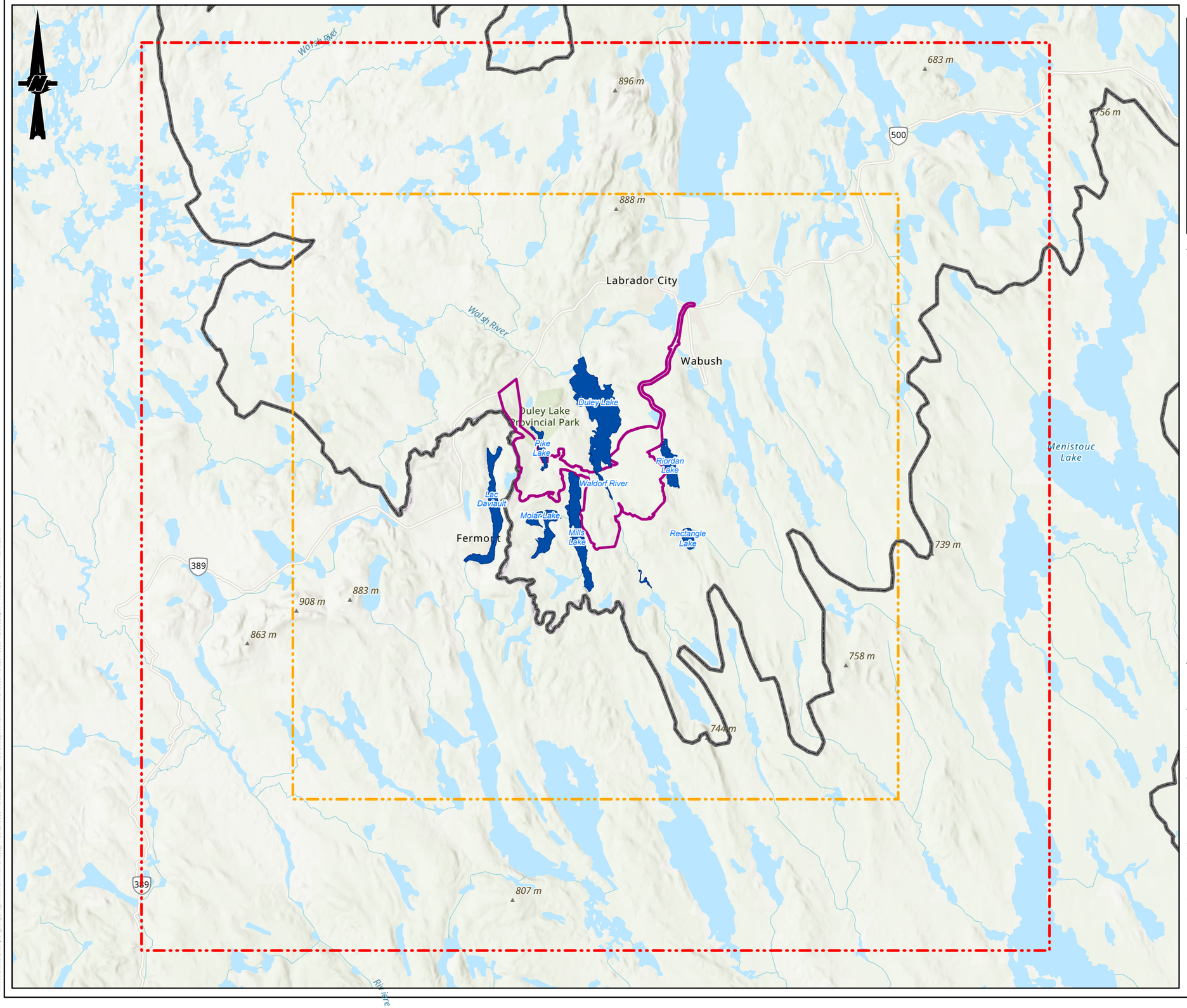
- **Site Study Area (SSA)**—Project Footprint (with addition of a boundary that is intended to capture the maximum area of Project Disturbance).
- **LSA**—Where measurable changes to valued environmental components (VECs) resulting from the proposed activities may be anticipated.
- **RSA**—Maximum geographical extent of direct and indirect effects from the Project, as well as the area within which the potential effects of the Project may interact with the effects of other projects in the region (i.e., a cumulative effect assessment).

The SSA, LSA, and RSA are outlined in Figure 3.

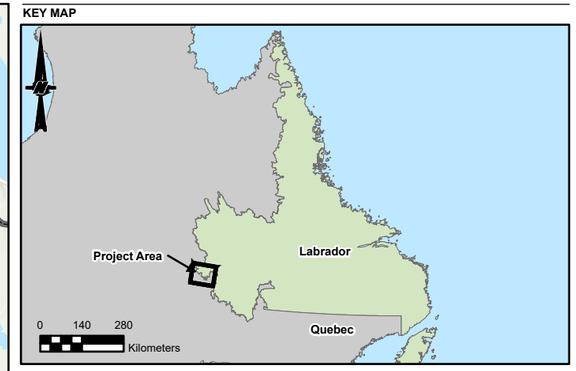
The LSA for air quality is a 40 by 40 km boundary from the centre of the Project, and captures Labrador City, Wabush, Labrador, and Fermont, Québec. The RSA includes additional areas beyond the LSA with a potential for overlapping air contaminants, and captures Wabush Mines, Iron Ore Company of Canada (IOC) operations, Bloom Lake Mine and Rail Spur, Schefferville Iron Ore Mine, and Direct Shipping Ore Iron Ore Project.

The LSA for water quality includes several waterbodies and watercourses or local watershed and sub-watersheds around the Project, including Pike Lake, Daviault Lake, Molar Lake, Mills Lake, Duley Lake, Waldorf River, Rectangle Lake, and Riordan Lake that overlap with the Project and represents the scale to which most or all effects on surface water from the Project are anticipated (as shown in Figure 3). The RSA includes LSA plus the Wabush Lake and several brooks and lakes. It extends from the highlands along the Québec-Labrador border, northeastward through Wabush and Labrador City along chain of lakes including Wabush Lake and the southwestern end of Shabogamo Lake. Predicted changes to water quality for the Project were modelled for several lakes within the LSA (Duley Lake, Pike Lake, Walsh River, Rose Pit Lake, Mills Lake, Waldorf River, Riordan Lake, Rectangle Lake); however, the HHRA focused the lakes receiving direct discharge of effluent (i.e., Duley Lake) and those most influenced by site water management and relevant for human use (i.e., Pike Lake and Riordan Lake).

Within the RSA, the air quality discipline identified one reasonably foreseeable development (RFD) and the water quality discipline identified four RFDs that were determined to have the potential to contribute to cumulative effects (Chapter 5, Air Quality and Climate and Chapter 8, Surface Water of the EIS; Champion 2025). However, qualitative assessments concluded these projects are unlikely to result in greater than negligible contributions to the predictions of COPCs from the Project (Chapter 5 and Chapter 8 of the EIS; Champion 2025). Therefore, a cumulative effects scenario was not considered further in the HHRA.



KEY MAP



SCALE 1:20,000,000

Legend

- Site Study Area
- Local Study Area
- Regional Study Area
- Labrador/Quebec Boundary
- Surface Water Features that may be Affected from the Project

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1:250,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS: WORLD TOPOGRAPHIC MAP: SOURCES: ESRI, TOMTOM, GARMIN, FAO, NOAA, USGS, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
WORLD HILLSHADE: ESRI, CGIAR, USGS
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE

STUDY AREAS

CONSULTANT

wsp

YYYY-MM-DD	2025-05-23
DESIGNED	----
PREPARED	GM
REVIEWED	LF
APPROVED	RJ

PROJECT NO.	CONTROL	REV.	FIGURE
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3.3 Project Environment

The Project is a proposed iron ore mine. Figure 4 outlines some of the main components proposed for the Project site including an open pit (Rose Pit), mine rock stockpile, ore stockpiles (operational and reserve), tailings management facility (TMF); overburden stockpile; processing infrastructure including crushing and concentrating, and ancillary infrastructure to support the mine and process plant. The development of the Project is planned to occur in four phases (Table 1).

Table 1: Project Phases and Durations

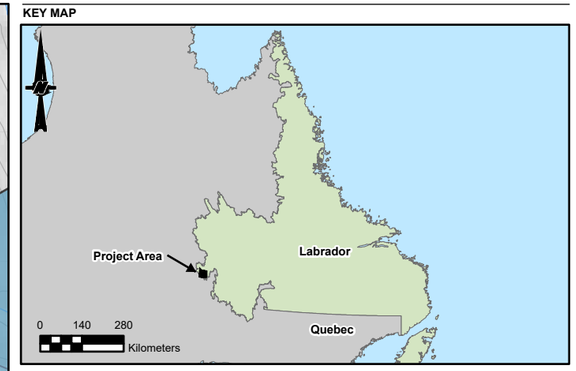
Phase	Duration	Description	Media Quantitatively Assessed for Potential Impacts
Construction	4 years	Activities in the Construction phase include site preparation, mine, process plant and site infrastructure development, and commissioning the structures, systems, and components.	None (qualitatively assessed)
Operations and Maintenance (referred to as Operations)	26 years	Activities in the Operations phase include the mining and milling of iron ore, production and shipment of iron ore concentrate tailings management, management of mine rock, waste management, water management, release of treated effluent, site maintenance, and transportation of staff and materials to and from the site. Operations includes one year of pre-development mining (i.e., ramp-up).	Air Surface Water Soil Country Foods
Decommissioning and Rehabilitation (referred to as Closure)	10 years	Activities in the Closure phase include accelerated flooding of the Rose Pit, re-establishment of passive surface water drainage following the pit-flooding period, recontouring and revegetating disturbed areas. Physical infrastructure that is not required during Post-closure monitoring and for other activities required to achieve the Project's decommissioning criteria and to return the Project site to a safe and stable condition will be removed.	Surface Water Country Foods
Post-closure	40 years	The transition from Closure to Post-closure involves ongoing dam safety monitoring, water treatment and environmental monitoring to verify that water quality is achievable for passive discharge and decommissioning criteria have been met. The length of the Post-closure period could be further refined through the completion of additional analysis as part of the Feasibility Study.	Surface Water Country Foods

For air quality, changes to COPC concentrations were not modelled for the Construction phase as emissions are expected to be short duration and of lower magnitude than Operations. A monitoring program during Construction will be in place so controls can be implemented to reduce fugitive dust based on monitoring levels. During Closure, the releases to air are expected to be similar to, or less than, the releases estimated for Operations; therefore, the changes to air quality during Closure were assessed qualitatively as the Operations phase modelling assessment presents the maximum potential effects of the Project.

For water quality, changes to COPC concentrations in surface water were modelled for all Project phases; however, the quantitative assessment focused on Operations and Closure phases, and Post-closure period. The greatest Project effects are expected to occur during Operations; therefore, the Construction phase was not quantitatively assessed as concentrations are predicted to be lower compared to other phases.

Duley Lake Park
Duley Lake
Overburden Stockpile Collection Pond
Pike Lake
Emergency Ore Concentrate Stockpile
Low-grade Ore Stockpile
Emergency Ore Stockpile
Pike Lake Dike
Emulsion and Explosion Production Plant
Overburden Stockpile
Process Plant
Concentrate Load-out
Ore Stockpile
Freshwater Pumping Station
Primary Ore Crusher Station
Crushed Ore Stockpile
Riordan Lake
Mine Service Area
Mine Rock Stockpile Collection Ponds
Rose Pit
Tailings Management Facility (TMF)
Rose Pit Collection Pond
Mid Lake Dam
Telecommunications Service
Mills Lake
Lac Daviault
Mine Rock Stockpile Collection Pond
Mine Rock Stockpile
Molar Lake

KEY MAP



SCALE 1:20,000,000

Legend

PROJECT DATA
- Proposed Project Infrastructure
- Proposed Sediment Pond
- Potential Access Road

BASEMAP INFORMATION
- Road
- Railway
- Watercourse
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 500 1,000 2,000
1:45,000 METRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE
PROJECT INFRASTRUCTURE

CONSULTANT

YYYY-MM-DD	2025-05-23
DESIGNED	----
PREPARED	GM
REVIEWED	LF
APPROVED	RJ

PROJECT NO.	CONTROL	REV.	FIGURE
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3.4 Contaminants of Potential Concern

The following types of contaminants that may be emitted into the environment from the Project were assessed in the HHRA:

- CACs (air only);
- Metals and Metalloids (air, soil, and surface water);
- PAHs (air and soil only); and
- Major ions, nutrients, TDS (surface water only).

Further details on these contaminants are provided below.

3.4.1 Criteria Air Contaminants

CACs considered in the HHRA include nitrogen dioxide (NO_2), sulphur dioxide (SO_2), carbon monoxide (CO), particulate matter (PM), and diesel particulate matter (DPM).

Particulate Matter

The main COPCs identified for air quality were PM emissions (dust) generated during mechanical disturbance of rock and soil materials, blasting and crushing, and wind erosion over stockpiles during development of the Project. Suspended dust (i.e., airborne PM) is expected from vehicular traffic volumes on haul roads. Airborne PM is often split into three categories based on particle size:

- Total particulate matter (TPM) – this category includes the largest particle size, airborne particles with an aerodynamic diameter less than 100 micrometres (µm).
- PM_{10} – a portion of the TPM with aerodynamic diameters of 10 µm or less is referred to as PM_{10}. The PM_{10}-sized particles are small enough to be inhaled into the upper respiratory tract (inhalable particulate).
- $PM_{2.5}$ – a portion of PM_{10} with an aerodynamic diameter of 2.5 µm or less is referred to as $PM_{2.5}$. This fine PM is small enough to be drawn into the lungs and are sometimes described as the respirable fraction of airborne particles (respirable particulate).

Diesel Particulate Matter

DPM represents particulates emitted from diesel combustion. Project-related sources of DPM include diesel exhaust from heavy mobile equipment, locomotives, and periodic generator testing.

NOx, SO_2, CO

There will also be stationary and mobile fuel combustion sources associated with the Project, such as explosive detonation, haul trucks, material handling equipment, and power generation equipment which will produce airborne gaseous emissions. Carbon monoxide (CO) is an intermediate combustion product that forms when there is an incomplete reaction of CO to carbon dioxide (CO_2). Nitrogen dioxide (NO_2) emissions occur mainly from high-temperature combustion processes. Although most of the NO_X emissions are in the form of nitric oxide (NO), NO will rapidly oxidize in the presence of ozone to form NO_2. Sulphur dioxide (SO_2) is formed when sulphur is present in fuel mixtures, which reacts with oxygen during the combustion process.

3.4.2 Metals and Metalloids

The main source of metals and metalloids (including silica) from the Project will be from the emissions of metal-bound particulates associated with the ore and mine rock. In addition, metals will be released to surface water through discharge of treated effluent and seepage from overburden stockpile, mine rock stockpile, and tailing management facility.

3.4.3 Polycyclic Aromatic Hydrocarbons

The main source of PAHs from the Project will be from fuel combustion of diesel engines. The HHRA focused on the PAHs of greatest concern including carcinogenic PAHs and naphthalene. This is consistent with the PAHs evaluated in the HHRA by Alderon (2012).

Carcinogenic PAHs in air and soil were evaluated through benzo(a)pyrene total potency equivalents B(a)P TPE (CCME 2010). To calculate B(a)P TPE, concentrations of carcinogenic PAHs were multiplied by the toxic equivalency factor (TEF) for each specific compound (Table 2) and summed for comparison to the benzo(a)pyrene air criterion or the CCME B(a)P TPE soil-specific criterion.

Table 2: Carcinogenic Polycyclic Aromatic Hydrocarbon Toxic Equivalency Factors

Compound	CCME Toxic Equivalency Factor
Benz(a)anthracene	0.1
Benzo(a)pyrene	1.0
Benzo(b)fluoranthene	0.1
Benzo(g,h,i)perylene	0.01
Benzo(k)fluoranthene	0.1
Chrysene	0.01
Dibenz(a,h)anthracene	1.0
Indeno(1,2,3-cd)pyrene	0.1

CCME = Canadian Council of Ministers of the Environment.

3.4.4 Major Ions, Nutrients, Total Dissolved Solids

Water quality of major ions (chloride, fluoride and sulphate), nutrients (nitrate, nitrite and total ammonia) and TDS were predicted by the water quality model (Lorax 2025). Major ions and TDS are released to surface water from discharge of treated effluent and water transfer between lakes. The source of nutrients is from sewage effluent from the Project, which will be treated and released to Duley Lake.

3.5 Baseline and Predicted Conditions

WSP completed field sampling programs for a variety of VECs in 2023 and 2024. The results of the baseline studies were used to characterize existing conditions in the LSA prior to the implementation of the Project, including the baseline concentration of COPCs in relevant environmental media (i.e., ambient air, soil, surface water). Modelling was then completed to predict the incremental changes to COPC concentrations associated with the Project.

Appendix A describes the baseline environmental quality dataset for each exposure media. The sources for baseline and predicted concentrations for the primary environmental media (e.g., air, soil, surface water) are summarized in Table 3.

Table 3: Sources for Baseline and Predicted Concentrations

Environmental Media	Source	
	Baseline Concentrations	Predicted Concentrations
Air	**Chapter 5, Air Quality and Climate** of the EIS (Champion 2025) Baseline concentrations for CACs were obtained from the Labrador City National Air Pollution Surveillance Program station. Baseline air data are presented in Appendix A.	**Chapter 5, Air Quality and Climate** of the EIS (Champion 2025) Predicted changes to air quality from the Project were modelled by the air quality discipline. Air emissions and fugitive dust were modelled for the Operations phase of the Project at receptor locations (see Section 4.1.2 for details). Predicted air concentrations are presented in Appendix B.
Soil	WSP. 2024. Kami Project: Baseline Soil and Country Foods Sampling Program (presented in Appendix G). A baseline soil quality program was conducted in 2024 to characterize the existing metal concentrations within the LSA. Baseline soil data are presented in Appendix A.	Appendix C: Soil Quality Screening Predicted changes to soil quality from the Project (i.e., due to aerial deposition of dust) were modelled as part of the HHRA based on predicted changes to air quality and soil deposition rates modelled by the air quality discipline. Predicted soil concentrations are presented in Appendix C.
Surface Water	Annex 2A of the EIS (Champion 2025): 2024 Surface Water Baseline Report. A baseline water quality program was conducted in 2024 to characterize the existing surface water quality in the watersheds within the LSA, immediately downstream of the Project The surface water quality data from Duley Lake were used to represent baseline conditions in the HHRA as this lake will receive direct discharge of effluent from the Project. Baseline surface water data are presented in Appendix A.	Lorax. 2025. Kami Environmental Assessment Water Balance and Water Quality Model Technical Data Report. Predicted changes to water quality from the Project (i.e., due to water discharges) were modelled by the water quality discipline for several lakes and rivers in the LSA expected to be influenced by the Project. The HHRA focused on the lakes most influenced by the Project and relevant for human use (i.e., Duley Lake [including Duley Lake Outlet], Pike Lake, Riordan Lake). Predicted surface water concentrations are presented in Appendix D. Based on screening to human health criteria (Section 4.3.2.2), Duley Lake was selected to represent worst-case water concentrations in the HHRA model.
Groundwater	Not Applicable – Only one private groundwater well falls within the LSA (e.g., on the southwest shore of Duley Lake). Groundwater quality is not expected to change due to the Project. The area of influence for the residual effects of the Project on the groundwater VEC (dewatering/lowering of water levels due to the pit) does not overlap with the Wahnahnish protected water supply area; however, the TMF straddles the border of that protected area. Effects from the TMF are expected to be negligible due to the proposed mitigation measures and monitoring programs (Chapter 7, Groundwater of the EIS; Champion 2025). Therefore, groundwater was not assessed in the HHRA.	
Sediment	Not Applicable – Exposure to COPCs from sediment is expected to be a minimal exposure pathway and representative data to assess exposure are not available. Available baseline sediment quality data were measured in the middle of Duley Lake (approximate depths of 55 m) where exposure by people and wildlife is unlikely. In addition, the locations where people and wildlife may contact sediment (e.g., sandy shoreline present at the northwest end of the lake) is on the opposite end from where sediment is potentially influenced from the effluent discharge. Overall, the change in sediment quality in the receiving waterbodies due to the Project is expected to be negligible, as qualitatively assessed by the surface water discipline (**Chapter 8, Surface Water** of the EIS; Champion 2025).	

EIS = environmental impact statement, LSA = local study area, HHRA = human health risk assessment, VEC = valuable environmental component; TMF = tailings management facility; CAC = criteria air contaminants; COPC = contaminant of potential concern.

4.0 PROBLEM FORMULATION

The purpose of the problem formulation stage is to distinguish the receptors, exposure pathways and COPCs for which further quantitative analysis is warranted from those that can be eliminated from further consideration. Once this evaluation is complete, the results from the problem formulation stage are summarized into a CSM, which illustrates how receptors can potentially be exposed to COPCs in the relevant environmental media that may be affected by the Project. The HHRA included the following objectives:

- The objective of the inhalation HHRA is to evaluate the potential risks to human health from exposure to contaminants emitted to air from the Project, which may pose a potential health risk following short-term or acute exposure (e.g., 1-hour and 24-hour averaging period) and long-term or chronic exposure (e.g., annual averaging period).
- The objective of the multi-pathway HHRA is to evaluate the potential risks to human health from exposure to contaminants that are released from the Project to soil due to aerial deposition and to surface water due water discharges, which may pose a potential health risk following long-term or chronic exposure (e.g., many years to lifetime) from the ingestion and dermal contact pathways (i.e., exposure pathways associated with soil, surface water, and country foods).

4.1 Receptor Selection

4.1.1 Receptor Descriptions

The HHRA evaluated receptors within the LSA that may be exposed to Project-related changes in air through breathing of particulates and contaminants/fugitive dusts in air and changes in soil and surface water through direct contact exposure pathways or through indirect exposure pathways related to the consumption of country foods that have bioaccumulated contaminants from soil and surface water.

To support the selection of receptor types and exposure pathways HHRA, a survey was prepared by Champion and WSP and emailed to cabin owners' associations within the LSA: Duley Lake Association, Riordan Lake Association, and Mills Lake Association. The survey focused on understanding recreational and land use activities, drinking water sources, and country food consumption patterns. The results are provided in Appendix E.

Based on the communities present within the LSA and the survey results, the following types of receptors were evaluated:

- Cabin Resident – Permanent and Seasonal
- Urban Resident
- Recreational/Land User
- Commercial User
- Indigenous Persons

Further details on each receptor type are provided below. Section 4.1.2 describes the receptor locations evaluated in the HHRA.

Cabin Resident – Permanent and Seasonal

Based on knowledge of the area, the cabin resident includes individuals who reside in the cabins within the LSA, consume local country foods, obtain drinking water from lakes, and engage in recreational activities such as swimming and hiking. This receptor could be exposed to Project-related changes to air through inhalation exposure and to Project-related changes to soil, surface water, and country foods through multi-pathway oral and dermal exposures. The cabin resident could include any life stage.

Both a permanent and seasonal cabin resident were evaluated to understand a potential upper and lower limit of exposure based on varying food consumption rates for fish, wild game, berries, Traditional plants, and backyard garden produce. The permanent cabin resident is assumed to be exposed to Project-related impacts every day and have a high reliance on country foods as part of their diet, whereas the seasonal cabin resident is assumed to be present in the LSA seasonally and have a moderate reliance on country foods.

Urban Resident

The urban resident includes individuals who permanently reside in the communities within the LSA, including in Wabush, Labrador City, and Fermont. The closest residence to the Project site in each of these communities was selected to assess potential Project-related exposures from changes to air through inhalation exposure and to Project-related changes to soil and backyard garden produce through multi-pathway oral and dermal exposures. These receptors could include any life stage and are assumed to be exposed to Project-related impacts every day.

Recreational/Land User

The recreational/land user receptor includes individuals who may seasonally engage in recreational or land use activities (i.e., swimming, hiking, camping, fishing, hunting, gathering) within the LSA. These receptors could include any life stage and were assumed to be exposed to Project-related impacts seasonally. The recreational/land user was evaluated in the inhalation assessment. In the multi-pathway assessment, the cabin resident receptor is protective of the recreational/land user.

Commercial User

The commercial user receptor includes individuals who attend institutional facilities (i.e., schools and hospitals) within the LSA. The closest school in each community (Wabush, Labrador City, and Fermont) was assessed, along with all hospitals identified within the LSA (i.e., Centre de Sante de l'Hematite and Labrador West Health Centre). These receptors could include any life stage and are assumed to be exposed to Project-related impacts for 10 hours per day, 5 days per week for 48 weeks per year as per Health Canada (2024). The commercial user was evaluated in both the inhalation and multi-pathway assessments (for direct contact exposures to soil only).

Indigenous Persons

As discussed in the EIS (Chapter 13, Indigenous Land and Resource Use and Chapter 17, Community Health and Well-being; Champion 2025), Indigenous persons may use the LSA for Traditional purposes. However, the Indigenous communities and core areas for Traditional land use are outside of the LSA. Therefore, it was assumed that the Indigenous person is an individual who may visit Traditional land use areas within the LSA (i.e., trapping routes, cabins, and camp sites) for hunting and gathering activities occasionally/seasonally. For the HHRA, the permanent cabin resident would be present in the LSA year-round and thus represents the worst-case scenario for the evaluation exposure pathways common to both receptors (e.g., air inhalation, direct contact with soil and surface water, and consumption of country foods). As a result, exposures and risks estimated for the permanent cabin resident would represent a bounding scenario for the Indigenous person, who has less frequent exposure. Therefore, the Indigenous person was not carried forward for further evaluation in the HHRA as a specific receptor.

4.1.2 Receptor Locations

The air and soil quality modelling focused on predicted changes at sensitive areas within the LSA associated with human activities (e.g., a community, a hospital, a cabin, a recreational area). These areas are termed receptor locations and are used to represent places where people are most likely to spend extended time engaged in a particular activity (or several activities). Receptor locations that are closer to the Project site are used as surrogates for similar locations that are farther away given that changes to contaminant concentrations will be greater if they are closer to the source. The receptor locations assessed in the HHRA are listed in Table 4 and shown in Figure 5. In each of the three communities, the closest residences (R1 to R3), schools (S1 to S3) and hospitals (H1 and H2) to the Project were evaluated. Receptors L1 (Duley Lake South) and L2 (Riordan Lake) were evaluated to allow for comparison to the previous HHRA by Alderon (2012), as these were previously identified as representing cabins located in the LSA where recreational and commercial land use and resource use activities were carried out. Several land use areas (LU1 to LU14) were selected based on areas used for Traditional land use by Indigenous communities, recreational activities, commercial and resource use based on information obtained from Alderon (2012) and public information sessions conducted for the EIS (Chapter 22 of the EIS [Engagement]; Champion 2025). Cabins outside the SSA, but within the LSA, not owned by Champion were also identified as human health receptor locations.

The surface water quality modelling included several waterbodies in the LSA (Duley Lake, Pike Lake, Walsh River, Rose Pit Lake, Mills Lake, Waldorf River, Riordan Lake, Rectangle Lake). However, the HHRA focused on the lakes receiving direct discharge of effluent (i.e., Duley Lake) and those most influenced by site water management and relevant for human use (i.e., Pike Lake and Riordan Lake).

Table 4: Receptor Locations

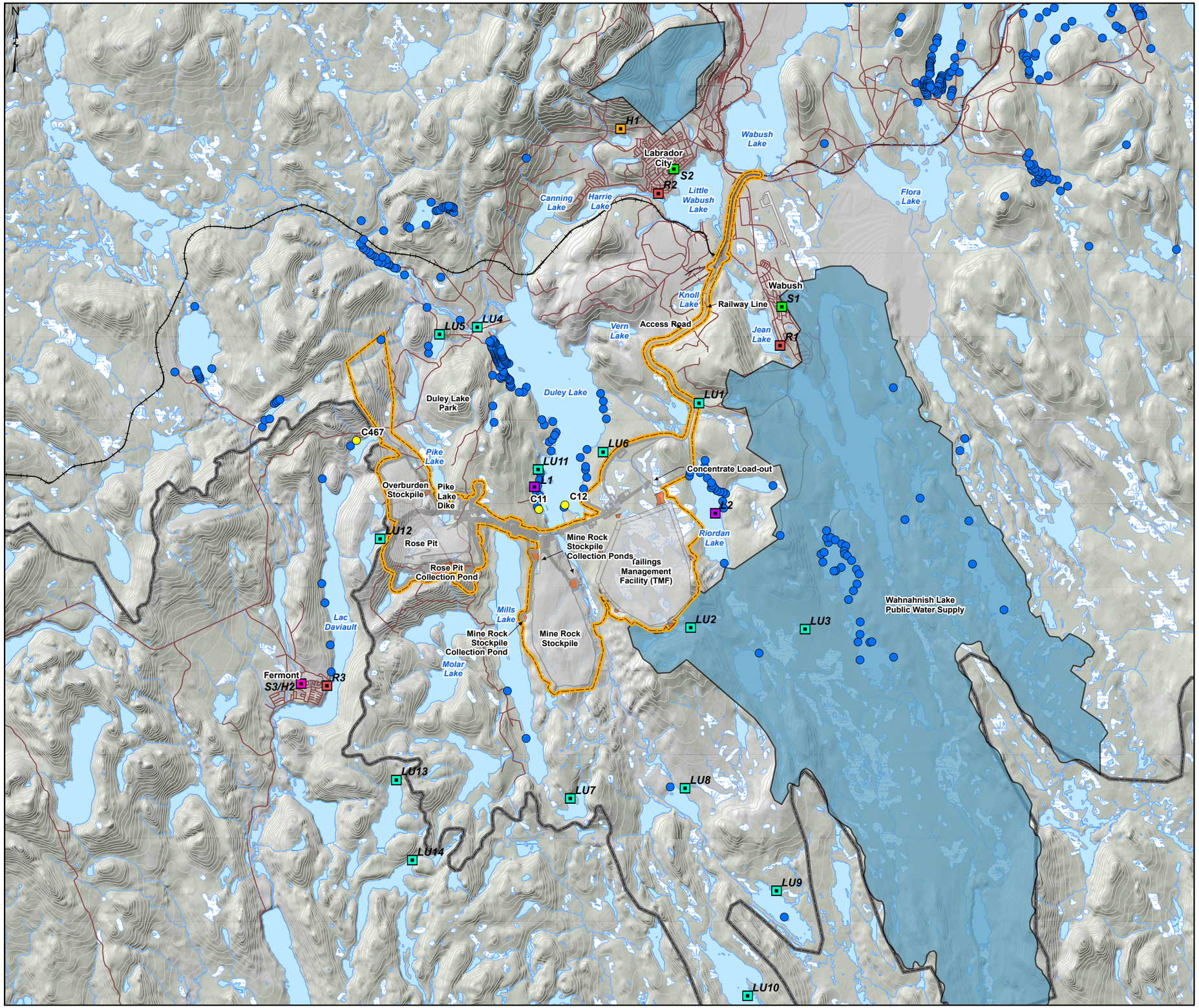
ID	Receptor Type	Description	Easting	Northing	Elevation (m)	Distance from Centre of SSA (m)	Direction from SSA
L1	Previous Receptor (Alderon 2012)	Southwest shore of Duley Lake South, proximal to the Project conveyors, process plant, and load out facilities	635960	5857470	555	1,435	North
L2	Previous Receptor (Alderon 2012)	Riordan Lake, proximal to and downwind of the TMF	641590	5856650	589	4,953	East
R1	Closest Residence	Wabush – southernmost house on Snow's Drive	643605	5861877	540	8,964	East
R2	Closest Residence	Labrador City – southernmost house on Tamarack Dr.	639817	5866611	530	10,865	North
R3	Closest Residence	Fermont – easternmost house on Rue Des Batisseurs	629503	5851281	599	8,690	South
S1	School	Wabush – JR Smallwood Middle School	643660	5863076	582	9,804	East
S2	School	Labrador City – Menihek High School	640302	5867360	538	11,726	North
S3/H2	School/ Hospital	Fermont – Horizon-Blanc High School Centre de Sante de l'Hematite (Hospital)	628698	5851349	610	9,328	South
H1	Hospital	Labrador City – Labrador West Health Centre	638645	5868618	583	12,561	North
LU1	Land Use Area	Along snowmobile route and Indigenous communities trapping route north of Riordan Lake[(a)]	641084	5860082	588	5,878	East
LU2	Land Use Area	Along snowmobile route and Indigenous communities trapping route southeast of TMF[(a)]	640822	5853090	619	5,208	South
LU3	Land Use Area	Along snowmobile route, between cabin areas, southeast of Riordan Lake	644385	5853040	592	8,356	Southeast
LU4	Land Use Area	Indigenous communities camping and fishing location on Walsh River[(a)]	634182	5862441	549	6,699	North
LU5	Land Use Area	Indigenous communities camping location north of Duley Lake Park[(a)]	633008	5862216	591	7,022	North
LU6	Land Use Area	Indigenous communities camping location on Duley Lake east shore[(a)]	638099	5858558	551	2,752	North

Table 4: Receptor Locations

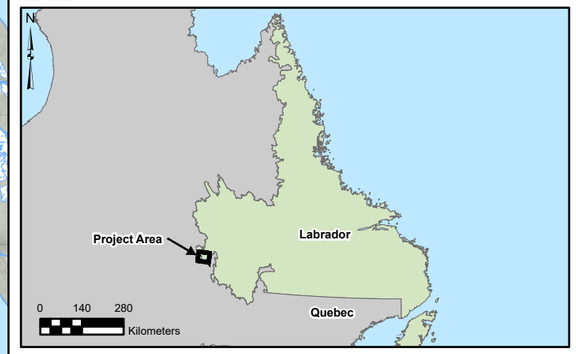
ID	Receptor Type	Description	Easting	Northing	Elevation (m)	Distance from Centre of SSA (m)	Direction from SSA
LU7	Land Use Area	Indigenous communities camping location south of mine rock storage pile[(a)]	637075	5847769	617	8,456	South
LU8	Land Use Area	Indigenous communities camping and fishing location south of TMF[(a)]	640649	5848093	572	9,051	South
LU9	Land Use Area	Indigenous communities camping location farther south of TMF[(a)]	643498	5844896	592	13,226	South
LU10	Land Use Area	Indigenous communities place name and trapping route, farthest south of TMF (not on map)[(a)]	642596	5841626	592	15,752	South
LU11	Land Use Area	Indigenous communities camping and fishing location on Duley Lake west shore[(a)]	636075	5858013	547	1,889	North
LU12	Land Use Area	Unnamed lake west of Rose Pit used recreationally by Fermont residents	631162	5855850	663	5,507	West
LU13	Land Use Area	Unnamed lake (unofficially called Lac de la Police) southeast of Fermont used recreationally by Fermont residents	631662	5848350	650	9,317	South
LU14	Land Use Area	Lac Witch used recreationally by Fermont residents	632162	5845850	631	11,298	South
C11	Cabin	All cabins in the LSA that are not owned by Champion (C1 to C469) were evaluated. Cabin numbers C11, C12, and C467 had the highest air quality predictions of annual contaminant concentrations. Cabin number C12 had the highest predicted annual dust deposition.	636098	5856774	545	790	North
C12	Cabin		636907	5856913	540	741	North
C467	Cabin		630419	5858921	625	6,799	West

(a) Land use information was provided by NunatuKavut Community Council (NCC). Feeback on land use information was not received from any other community.

ID = identification; LU = land use area, R = residential area, S = school, H = hospital, C = cabin, TMF = tailing management facility; NCC = NunatuKavut Community Council; SSA = site study area; LSA = local study area.



KEY MAP



SCALE 1:20,000,000

LEGEND

PROJECT DATA

- Proposed Project Infrastructure
- Proposed Sediment Pond
- Site Study Area (SSA)

PROJECT DATA

Receptor Locations

- Land Use
- Closest Residences
- Hospitals
- Schools
- Schools/Hospitals
- Previous Receptors (Alderon 2012)
- Cabin - Public Ownership
- Cabin with maximum concentration of COPCs

BASEMAP INFORMATION

- Existing Road
- Existing Railway
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Public Water Supply
- Labrador/Quebec Boundary

0 1,250 2,500 5,000

1:120,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS: WORLD TOPOGRAPHIC MAP: ESRI, © OPENSTREETMAP CONTRIBUTORS, HERE, GARMIN, USGS, NGA, EPA, USDA, AAFC, NRCAN
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE

RECEPTOR LOCATIONS FOR AIR AND SOIL QUALITY

CONSULTANT

wsp

YYYY-MM-DD	2025-05-23
DESIGNED	----
PREPARED	GM
REVIEWED	LF
APPROVED	RJ

PROJECT NO.	CONTROL	REV.	FIGURE
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4.2 Exposure Pathway Selection

Table 5 and Table 6 summarize the exposure pathways considered for the inhalation assessment and multi-pathway assessment for each receptor type evaluated in the HHRA. The primary exposure media potentially impacted by the Project includes air, soil, and surface water. Subsequent changes to country foods were also considered as a result to changes to soil and surface water quality. As discussed in Section 3.5, potential exposures from groundwater and sediment were considered negligible and not retained for further assessment.

Table 5: Exposure Pathway Summary for Human Health Risk Assessment – Inhalation Assessment

Exposure Media	Exposure Pathway	Inhalation Assessment			
		Cabin Resident	Urban Resident	Recreational/ Land User	Commercial User
Air	Inhalation of suspended particulates or vapours in air	✓ (Cabins)[a]	✓ (R)[a]	✓ (L1, L2, LU)[a]	✓ (S, H)[a]

Note: Refer to Section 4.1.2 for further details on the human health receptor locations.

(a) Indicates the applicable locations for each receptor when assessing air and soil exposures.

R = residential communities, S = schools, Cabins = cabins not owned by Champion; L1/L2 = lake shoreline previously assessed by Alderon (2012); LU = recreational or Traditional land use area; H = hospitals; ✓ = pathway considered in the HHRA.

Table 6: Exposure Pathway Summary for Human Health Risk Assessment – Multi-Pathway Assessment

Exposure Media	Exposure Pathway	Multi-Pathway Assessment			
		Cabin Resident – Permanent[d]	Cabin Resident – Seasonal[d]	Urban Resident	Commercial User
Soil	Direct contact with soil (incidental ingestion, dermal contact, soil inhalation)	✓ (Cabins, L1,L2,LU)[a]	✓ (Cabins, L1,L2,LU)[a]	✓ (R)[a]	✓ (S, H)[a]
	Ingestion of berries[b]	✓	✓	–	–
	Ingestion of Traditional plants[b]	✓	✓	–	–
	Ingestion of garden produce[b]	✓	✓	✓	–
	Ingestion of wildgame[c]	✓	✓	–	–
Surface Water	Ingestion of surface water (as a drinking water source)	✓ (Duley Lake)[e]	✓ (Duley Lake)[e]	–	–
	Dermal contact with/incidental ingestion of surface water (while swimming)	✓ (Duley Lake)[e]	✓ (Duley Lake)[e]	–	–
	Ingestion of fish[b]	✓	✓	–	–
	Ingestion of wildgame[c]	✓	✓	–	–

(a) Indicates the applicable locations for each receptor when assessing air and soil exposures. Refer to Section 4.1.2 for further details on the human health receptor locations.

(b) Indicates indirect exposure to COPCs from bioaccumulation.

(c) Indicates indirect exposure to COPCs from ingestion of food items (browse, soil invertebrates, aquatic plants, aquatic invertebrates) that have bioaccumulated COPCs from soil or surface water.

(d) A permanent cabin resident represents a maximally exposed receptor based on high consumptions rates of country foods and full-time use of cabins, whereas the seasonal cabin resident is a more moderately exposed receptor based on lower consumption rates of country foods and only seasonal use of cabins.

(e) For surface water-related exposures, Duley Lake was considered in the multi-pathway assessment.

R = residential communities, S = schools, Cabin = cabins not owned by Champion; L1/L2 = lake shoreline previously assessed by Alderon (2012); LU = recreational or traditional land use area. H = hospitals; COPC = contaminant of potential concern.

4.3 Screening of Contaminants of Potential Concern

The objective of contaminant screening is to focus the HHRA on those contaminants that may present a potential concern to human health from those that do not. Contaminants retained following screening are termed COPCs and are evaluated further within the framework of a HHRA to understand their potential for posing a health risk.

4.3.1 Inhalation Assessment

COPC screening for the inhalation assessment was conducted based on the predicted atmospheric concentrations at receptor locations (as described in Section 4.1.2) because of the Operations phase of the Project. Predicted air concentrations modelled by the air quality discipline for 1-hour, 24-hour, and annual averaging periods were relied upon (Chapter 5 of the EIS; Champion 2025).

As discussed in Section 3.4, the following contaminants that may be emitted to air from the Project were assessed in the HHRA:

- CACs (NO_2, SO_2, CO, $PM_{2.5}$, PM_{10}, and DPM)
- Metals and Metalloids
- PAHs (focused on the PAHs of greatest concern including carcinogenic PAHs evaluated though BaP TPE and naphthalene)

The 1-hour and 24-hour averaging periods were used in the air quality predictions to represent acute (or short-term) exposure periods and allow comparison to health-based air quality criteria[1] which are also based on 1-hour and 24-hour averaging periods. Similarly, the annual averaging time was used to represent chronic (or long-term) exposure periods and predictions were compared to health-based standards based upon the annual exposure period.

The predicted maximum concentrations of the emitted contaminants were compared to health-based air quality criteria as described in Appendix B. The health-based air quality criteria were selected based on the following sources according to Health Canada (2023a):

- Primary sources: Newfoundland and Labrador Environment and Climate Change (NLECC) Air Quality Management System (2022), CCME Canadian Ambient Air Quality Standards (CAAQS)
- Secondary sources: World Health Organization (WHO), United States Environmental Protection Agency (US EPA) National Ambient Air Quality Standards (NAAQS), California Office of Environmental Health Hazard Assessment (OEHHA)
- Tertiary sources: Agency for Toxic Substances and Disease Registry (ATSDR), Ontario Ministry of Environment Conservation and Parks (MECP), Texas Commission on Environmental Quality (TCEQ)

Generally, air quality criteria were selected first from the primary sources, then secondary sources, and lastly tertiary sources. Within each tier, the lowest health-based air quality criterion with supporting information was then generally selected for use in the screening process. Some exceptions were made, and a criterion may have been selected over a lower criterion depending on factors such as type of test species (i.e., human data versus animal data), study results, study quality, point of departure (i.e., lowest observed adverse effect level [LOAEL] versus a no observed adverse effect level [NOAEL] versus a dose-response benchmark concentration extrapolated based on 5%

[1] For consistency, health-based air quality criteria has been used in-text as an umbrella term to represent health-based air quality benchmarks, standards and objectives.

incidence) and how recent the study was conducted. For example, if a criterion was based on a more current scientific study and supporting information was available, then it may have been selected over a criterion with a lower value. A summary of the selected air screening criteria is provided in Appendix B – Attachment 2.

A chemical was retained as a COPC if its maximum predicted concentration was above the selected health-based air quality criterion at any human health receptor location. The results of the COPC screening are presented in Appendix B – Attachment 3. The COPCs associated with each exposure duration and receptor location retained for the inhalation HHRA are summarized in Table 7.

Table 7: Contaminants of Potential Concern Retained for the Inhalation Assessment

Assessment Duration	Residential Receptor	Commercial Receptor	Land Use Receptor
1-hour Acute	**NO_2**: R1 (Wabush), R2 (Labrador City), R3 (Fermont), Cabins[(a)] **Al**: Cabins[(a)] **Mn**: Cabins[(a)] **Silica:** R3 (Fermont), Cabins[(a)]	**NO_2**: S1 (Wabush), S2 (Labrador City), S3/H2 (Fermont) **Silica:** S3/H2 (Fermont)	**NO_2**: L1 (Duley Lake South), L2 (Riordan Lake), LU max (unnamed lake -Fermont) [(b)] **Al**: LU max (unnamed lake - Fermont)[(b)], **Mn**: LU max (unnamed lake - Fermont), [(b)] **Ni**: LU max (unnamed lake - Fermont)[(b)], **Silica:** L1 (Duley Lake South), L2 (Riordan Lake), LU max (unnamed lake -Fermont)[(b)],
24-hour Acute	**Al**: Cabins[(a)]	-	**$PM_{2.5}$**: LU max (unnamed lake - Fermont)[(b)] **Al**: L1 (Duley Lake South), L2 (Riordan Lake), LU max (unnamed lake -Fermont), [(b)] **Mn**: LU max (unnamed lake - Fermont)[(b)]
Annual	**DPM:** Cabins[(a)] **Mn**: Cabins[(a)] **Silica:** Cabins[(a)]	-	**NO_2**: LU max (unnamed lake - Fermont)[(b)] **DPM:** LU max (unnamed lake - Fermont)[(b)] **Mn**: L1 (Duley Lake South), L2 (Riordan Lake), LU max (unnamed lake -Fermont)[(b)] **Silica:** L1 (Duley Lake South), L2 (Riordan Lake), LU max (unnamed lake -Fermont)[(b)]

(a) Refer to Appendix B – Attachment B3 for the cabin identifiers with exceedances. The cabin location with the maximum prediction was carried forward for assessment. Only cabins not owned by Champion were considered in the assessment.

(b) Refer to Appendix B – Attachment B3 for the land use areas (LU) with exceedances. The LU location with the maximum prediction was carried forward for assessment. LU12 had the maximum predicted concentations among land use locations, and is located on the unnamed lake west of Rose Pit, which is used recreationally by Fermont residents.

NO_2 = nitrogen dioxide; $PM_{2.5}$ = particulate matter with nominal aerodynamic diameter of 2.5 microns or less (sometimes referred to as fine particulate matter); Al = aluminum; Mn = manganese; Ni = nickel; DPM = diesel particulate matter; R = residential communities; S = schools; Cabin = cabins not owned by Champion; L1/L2 = lake shoreline previously assessed by Alderon (2012); LU = recreational or Traditional land use area; H = hospitals.

PM_{10}

Several receptor locations also exceeded the 24-hour and annual screening air quality criteria for PM_{10}. The 24-hour air quality criterion is from NL; and it was adopted from the Ontario MECP 24-hour criteria protective of chronic exposures rather than acute exposures. The annual air quality criterion is from the WHO (the only regulatory agency with an annual criteria) and is based on mortality but derived from an empirical ratio of $PM_{2.5}$:PM_{10} (see Appendix B – Attachment 1 for details). There are no PM_{10} criteria for any exposure duration under the CAAQS as human health effects from particulate matter are assessed through $PM_{2.5}$, because this is the respirable fraction of particulate matter that can enter the respiratory tract. Several studies have shown that in almost all cases, in both acute and sub-chronic mortality studies, fine particles as $PM_{2.5}$, had a stronger and more significant association with mortality than coarse particles (Government of Canada 1998). More recent studies support fine PM as being more strongly associated with decreases in lung function and bronchitis symptoms in asthmatic children (Health Canada 2016).

Overall, the research supports that $PM_{2.5}$ is more important as a predictor of toxicity than the coarse fraction. Health Canada (2023a) has concluded that the risk associated with $PM_{2.5}$ is higher than the health risks associated with coarse PM and constitutes the bulk of the health impact associated with particulate matter. For these reasons, PM_{10} is not retained as a COPC as potential health risks from particulate matter are assessed based on $PM_{2.5}$.

4.3.2 Multi-Pathway Assessment

COPC screening for the multi-pathway assessment was conducted for the following exposure media:

- **Soil**: Project-related changes were predicted based on soil deposition rates estimated by the air quality discipline at receptor locations (Chapter 5 of the EIS; Champion 2025).
- **Surface Water:** Project-related changes were predicted in Duley Lake, Pike Lake, and Riordan Lake by the water quality discipline (Chapter 8 of the EIS; Champion 2025).
- **Country Foods:** Project-related changes in vegetation, small and large mammals, and fish from bioaccumulation will be predicted based on the changes in soil and surface water quality. However, as human health criteria for surface water are not protective of bioaccumulation, a separate screening was conducted to identify COPCs in fish.

Further details are provided below for the COPC screening of soil and surface water and identification of bioaccumulative contaminants.

4.3.2.1 Soil

Soil Quality Predictions

As discussed in Section 3.4, the following contaminants that may be emitted to soil via dust deposition from the Project were assessed in the HHRA:

- Metals and Metalloids
- PAHs (focused on the PAHs of greatest concern including carcinogenic PAHs evaluated though BaP TPE and naphthalene)

COPC screening in soil was conducted to identify the contaminants that have the potential to impact human health due to soil deposition. Incremental changes to soil concentrations for each contaminant were calculated from annual deposition rates (i.e., wet and dry deposition) provided by the air quality discipline at each receptor location. Deposition rates for metals and metalloids were based on the average concentration of contaminants measured in

the mine rock and ore assays. Details on how the incremental changes to soil concentrations were calculated from deposition rates is provided in Appendix F. Baseline concentrations of metals and metalloids were also considered for COPC screening (as described in Appendix A).

The modelling inputs and results are presented in Appendix C – Table 1, including baseline concentrations, deposition rates, the predicted incremental concentration in soil from deposition, and the total soil concentration (baseline + predicted).

Soil Quality Screening Approach

A contaminant was identified as a COPC in the multi-pathway assessment if the baseline + predicted soil concentration was greater than the selected human health soil quality screening criterion and if the incremental change in the soil concentration because of the Project was equal to or greater than the lowest detection limit for that contaminant.

Soil Quality Screening Criteria

The soil quality screening criteria considered the lowest of the applicable federal and provincial guidelines protective of human health from direct contact including:

- Atlantic Risk-Based Corrective Action (RBCA) Human Health Based Tier II Environmental Quality Standards (EQS) (2022)
- CCME Soil Quality Guidelines for the Protection of Human Health (SQG_{HH}) (1999a/2024)

Soil quality screening criteria associated with agricultural land use are applicable to the Project as the surrounding area may be used for country food consumption.

In absence of criteria from RBCA or CCME for a parameter, the United States Regional Screening Levels (RSLs) for Resident Soil protective of human health direct contact were considered (US EPA 2024a) and were adjusted based on a target source allocation factor of 0.2 for non-carcinogens and a target incremental lifetime cancer risk of 1 in 100,000 as per Health Canada (2024).

Appendix C – Table 2 provides a summary of the applicable soil quality screening criteria.

Results

Appendix C – Table 1 compares the soil quality predictions (Base + Project Case concentrations) for contaminants at each receptor location to the human health soil quality screening criterion and detection limit for that contaminant.

Manganese was the only identified COPCs, based on predicted soil concentrations above both the detection limit and the human health soil quality screening criterion. Manganese was identified as a COPC at all receptor locations.

Human health soil quality screening criteria were not identified for several contaminants that had incremental changes in soil quality greater than their detection limits. These were not identified as COPCs as follows:

- Calcium, potassium, magnesium, phosphorous, and sodium as they are innocuous and not a human health concern. Calcium, potassium, magnesium and sodium are essential elements (MERAG 2007), and phosphorus is associated with eutrophication effects on aquatic life rather than effects on humans (CCME 2004).

- Bismuth, cesium, gallium, lithium, rubidium, thorium, yttrium as their incremental soil concentrations from the Project were less than 10 times their detection limits, except for cesium which had incremental concentrations that exceeded the detection limit up to 55 times at LU12. However, due to its low relative abundance in the Earth's crust, limited use in industry, and relatively low level of toxicity observed in animal studies, exposure to stable cesium is not considered to be a high public health concern (ATSDR 2004).

4.3.2.2 Surface Water

Surface Water Quality Predictions

As discussed in Section 3.4, the following contaminants that may be emitted to surface water from the Project were assessed in the HHRA:

- Metals and metalloids; and
- Major ions, nutrients, and TDS.

COPC screening in surface water was conducted to identify the contaminants that have the potential to impact human health due to effluent discharge. Changes to surface water concentrations for each contaminant were predicted through the development of a site-wide water balance and water quality model (WBWQM) constructed by Lorax (Lorax 2025). The primary modelling objective was the prediction of water volume and solute transfers within the mine site and to the receiving environment during all phases and periods of the Project. All contact water generated from mine facilities during Construction and Operations phases is planned to be collected and routed through a series of ponds prior to discharge to Duley Lake. As the open pit is developed, it is anticipated that it will receive groundwater seepage from nearby lakes, with the majority of seepage originating from Pike Lake (Lorax 2025). Water is transferred from Duley Lake to Pike Lake to mitigate the impact of groundwater seepage from Pike Lake, thereby maintaining lake levels. During Closure, Rose Pit will be filled with water transfers from Duley Lake, stockpile collection ponds, and the TMF During Post-closure, the pit filling is complete and the pit lake discharges to Pike Lake. Surface run-off from the TMF flows into Riordan Lake and seepage from both the TMF and dam embankment reports to the surrounding environment, including Duley Lake, Riordan Lake, Waldorf River, and Rectangle Lake. A detailed description of the site-wide water balance is provided in the WBWQM report (Lorax 2025).

Surface water quality was predicted for Duley Lake and Pike Lake as well as several other intermediary and downstream water bodies during all Project phases. The HHRA focused on the lakes most influenced by the Project and relevant for human use (i.e., Duley Lake (including Duley Lake Outlet), Pike Lake, Riordan Lake). The maximum predicted concentration (i.e., Base + Project Case scenario) was used for COPC identification in the HHRA. This was calculated from the monthly mean concentrations and the mean annual precipitation flow scenario for the Operations and Closure phases and Post-closure period.

Surface Water Quality Screening Approach and Criteria

Predicted surface water concentrations in Duley Lake, Duley Lake Outlet, Pike Lake, and Riordan Lake (representing the Base + Project Case scenario as described in Section 2.2) were compared to human health drinking water quality criteria. A contaminant was identified as a COPC in the multi-pathway assessment if the predicted surface water concentration was greater than the selected human health drinking water quality screening criterion.

For surface water used as a drinking water source, NL guidance recommends the use of the Health Canada Guidelines for Drinking Water Quality (GCDWQ) as there are no provincial criteria (Atlantic RBCA 2021); however, NL guidance does not provide recommendations on secondary jurisdictions for surface water quality criteria. As such, the list of secondary sources for drinking water obtained from groundwater was considered, as these are risk-based and protective of human health. The lowest value from the secondary sources were used, unless there was a scientific basis to select a higher value. If the Health Canada GCDWQ was not based on a health endpoint (i.e., an aesthetic objective), a health-based value was selected from secondary sources, if available. In summary, drinking water quality criteria were selected from the following sources, as presented in Appendix D – Table 1.

- Primary Sources:
  - Health Canada GCDWQ. The maximum acceptable concentration was selected when available. (Health Canada 2025).
- Secondary Sources:
  - Alberta Tier 1 Soil and Groundwater Remediation Guidelines: Table C-11 Surface Water Quality Guidelines, drinking water. (EPA 2024).
  - *BC ENV Contaminated Sites Regulation Schedule 3.2 Generic Numerical Water Standards, Drinking Water* (BC ENV 2025).
  - Ontario MECP component values for potable water scenario, residential/parkland property use, GW1. Component values were revised to consider recently updated toxicity reference values (MECP 2024) and MOECC 2016).
  - US EPA RSLs for tap water. (US EPA 2024b). A target hazard quotient of 0.2 and target cancer risk of 1E-05 were used to be consistent with Health Canada guidance.

Surface water quality guidelines are not available for protection of human health due to consumption of fish tissue that has bioaccumulated contaminants from surface water; therefore, all bioaccumulative contaminants have been retained for assessment of the fish tissue consumption pathway. Further discussion is provided in Section 4.3.2.3.

Results

Appendix D – Table 2 compares the predicted surface water concentrations in Duley Lake, Duley Lake Outlet, Pike Lake, and Riordan Lake to human health drinking water quality criteria and baseline concentrations.

Cobalt exceeded the drinking water quality screening criterion during Operations and Closure in Duley Lake and Pike Lake and, manganese exceeded the drinking water quality screening criterion during Operations in Duley Lake. As such, cobalt and manganese were identified as COPCs. All other chemicals were below drinking water quality screening criteria for Duley Lake Outlet and Riordan Lake.

While thallium exceeded the selected surface water quality criterion during Operations in Duley Lake and during Post-closure in Pike Lake, thallium is not commonly assessed in HHRAs, and the available toxicity data are insufficient to derive a defensible TRV. This trace mineral was excluded from further consideration as a COPC based on the rationale provided below.

The surface water quality screening criterion for thallium was based on the US EPA Provisional Peer-Reviewed Toxicity Value (PPRTV) of 0.00001 mg/kg/day for soluble thallium (US EPA 2012). The US EPA indicated that the available studies on thallium toxicity in humans are of poor quality and not suitable for deriving a TRV or a provisional

reference dose. The screening chronic provisional reference dose proposed by the US EPA (2012) is based on a high level of uncertainty. Uncertainty factors were based on extrapolation from animals to humans (10), human variability (10), lack of adequate developmental toxicity data (10) and extrapolation from sub-chronic to chronic exposure (3), for a total uncertainty factor of 3,000. The US EPA RSLs are adopted by Atlantic RBCA (2021) for contaminants where Health Canada and other provincial sources have not provided criteria. However, due to the uncertainties associated with the US EPA RSL for thallium, it has not been used as a screening value for surface water.

4.3.2.3 Identification of Bioaccumulative Contaminants

The Government of Canada (2025) has published *Persistence and Bioaccumulation Regulations* that identify bioaccumulative contaminants as follows:

a) Its bioaccumulation factor is greater than 5000;

b) If a bioaccumulation factor cannot be determined, its bioconcentration factor is greater than 5000; or

c) If neither a bioaccumulation factor nor bioconcentration factor can be determined, the logarithm of its octanol-water partition coefficient (log Kow) is greater than 5.

These criteria were used to identify bioaccumulative COPCs in soil and surface water.

Surface Water to Fish

The surface water quality guidelines that are protective of human health only address the drinking water pathway; surface water quality guidelines are not available that address human consumption of fish. As a result, a precautionary approach was taken in the HHRA where potentially bioaccumulative contaminants in water were retained as COPCs in the multi-pathway assessment, even if these contaminants did not exceed drinking water quality guidelines.

Site-specific and literature-derived surface water to fish bioaccumulation factors (BAFs) are provided in Appendix A – Attachment 1. Potassium and phosphorus had site-specific BAFs over 5,000; however, these are innocuous contaminants and not a concern for human health (MERAG 2007, CCME 2004). The only contaminant for which site-specific BAFs were greater than 5000 that was retained as a bioaccumulative COPC was mercury.

While thallium had a literature-based fish BAF of 10,000 for lake trout, the site-specific BAF was 462 (refer to Appendix A). As discussed above, thallium is not commonly assessed in HHRAs, and the available toxicity data are insufficient to derive a defensible TRV; therefore, thallium was not retained for further consideration.

Soil to Plants

Agricultural land use guidelines were considered for screening of soil COPCs, which includes a human health exposure pathway guideline protective of produce, meat and milk consumption (i.e., the produce, meat and milk check). However, this guideline is only calculated for non-polar organic compounds and CCME states that concerns about metal contaminants should be addressed on a site-specific basis.

Site-specific and literature-derived soil to plant BAFs are provided Appendix A – Attachment 1. No BAFs were above 5,000.

4.3.3 Summary of Contaminants of Potential Concern for Human Health Risk Assessment

The COPCs retained for HHRA are listed in Table 8. COPCs for the inhalation assessment were selected if its predicted concentration was above the selected health-based air quality criterion at any human health receptor location.

For the multi-pathway assessment, if a COPC was identified in one media (i.e., soil, surface water, or food [based on a bioaccumulation assessment]), the COPC was assessed across all applicable media to estimate potential risks associated with total oral exposure. In addition, even though the predicted concentrations in soil and surface water were below human health criteria, select COPCs were retained for the multi-pathway assessment if they were of higher health concern to the public (e.g., arsenic and lead) or if they were COPCs assessed at other iron mines (Alderon 2012, Intrinsik 2014, AECOM 2015.) in the region (e.g., arsenic, barium, beryllium, chromium, iron, lead, manganese, mercury, molybdenum, and selenium).

Table 8: Contaminants of Potential Concern Assessed in the Human Health Risk Assessment

Inhalation Assessment COPCs	Multi-Pathway Assessment COPC
NO_2 $PM_{2.5}$ DPM Aluminum Manganese Nickel Silica	Arsenic[c,e] Barium[e] Beryllium[e] Chromium[e] Cobalt[b] Iron[e] Lead[c] Manganese[a,b] Mercury[d,e] Methylmercury[c] Molybdenum[e] Selenium[e]

(a) Soil COPC (Section 4.3.2.1).

(b) Surface water COPC (Section 4.3.2.2).

(c) COPC retained as it has high public concern.

(d) Bioaccumulative COPC (Section 4.3.2.3).

(e) COPC assessed at other iron mines in the region. Selected based on review of the following HHRAs: Alderon 2012, Intrinsik 2014, AECOM 2015.

COPC = contaminant of potential concern; HHRA = Human Health Risk Assessment; NO_2 = nitrogen dioxide; $PM_{2.5}$ = particulate matter with nominal aerodynamic diameter of 2.5 microns or less; DPM = diesel particulate matter.

4.4 Conceptual Site Model

As introduced in Section 2.1, a contaminant concentration in the environment is a potential health risk only if it can reach receptors (i.e., people) through an exposure pathway at a concentration that could potentially lead to adverse effects. The receptors identified in Section 4.1, exposure pathways identified in Section 4.2, and the COPCs identified in Section 4.3 have a potential to result in health risks through inhalation or multi-pathway exposures (i.e., soil, surface water and country foods), which will be further evaluated in the HHRA. The results of the problem formulation are summarized in the CSMs for the inhalation assessment (Figure 6) and the multi-pathway assessment for each receptor (Figures 7 to 9).

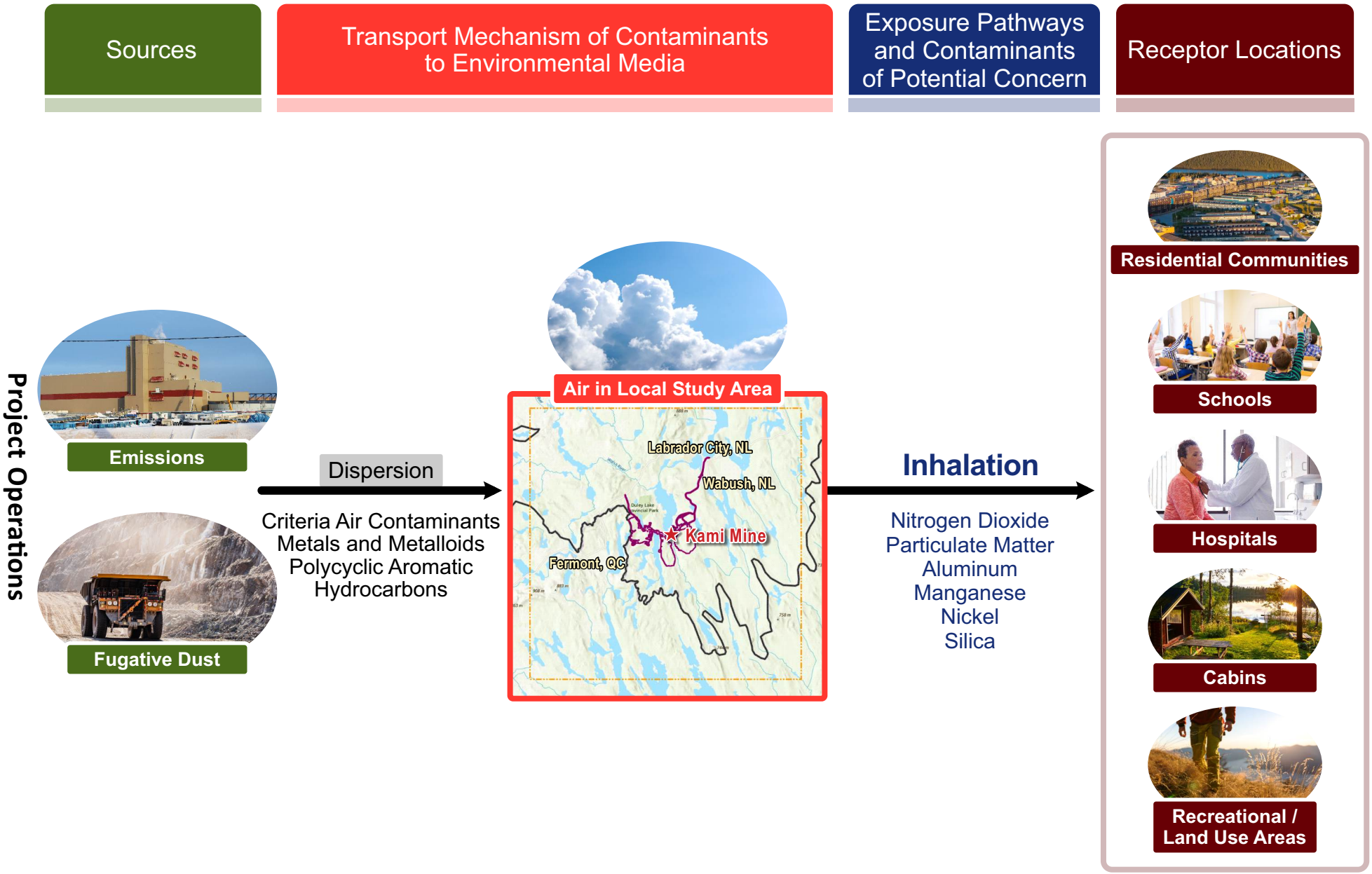


Figure 6: Human Health Conceptual Site Model for Inhalation Assessment

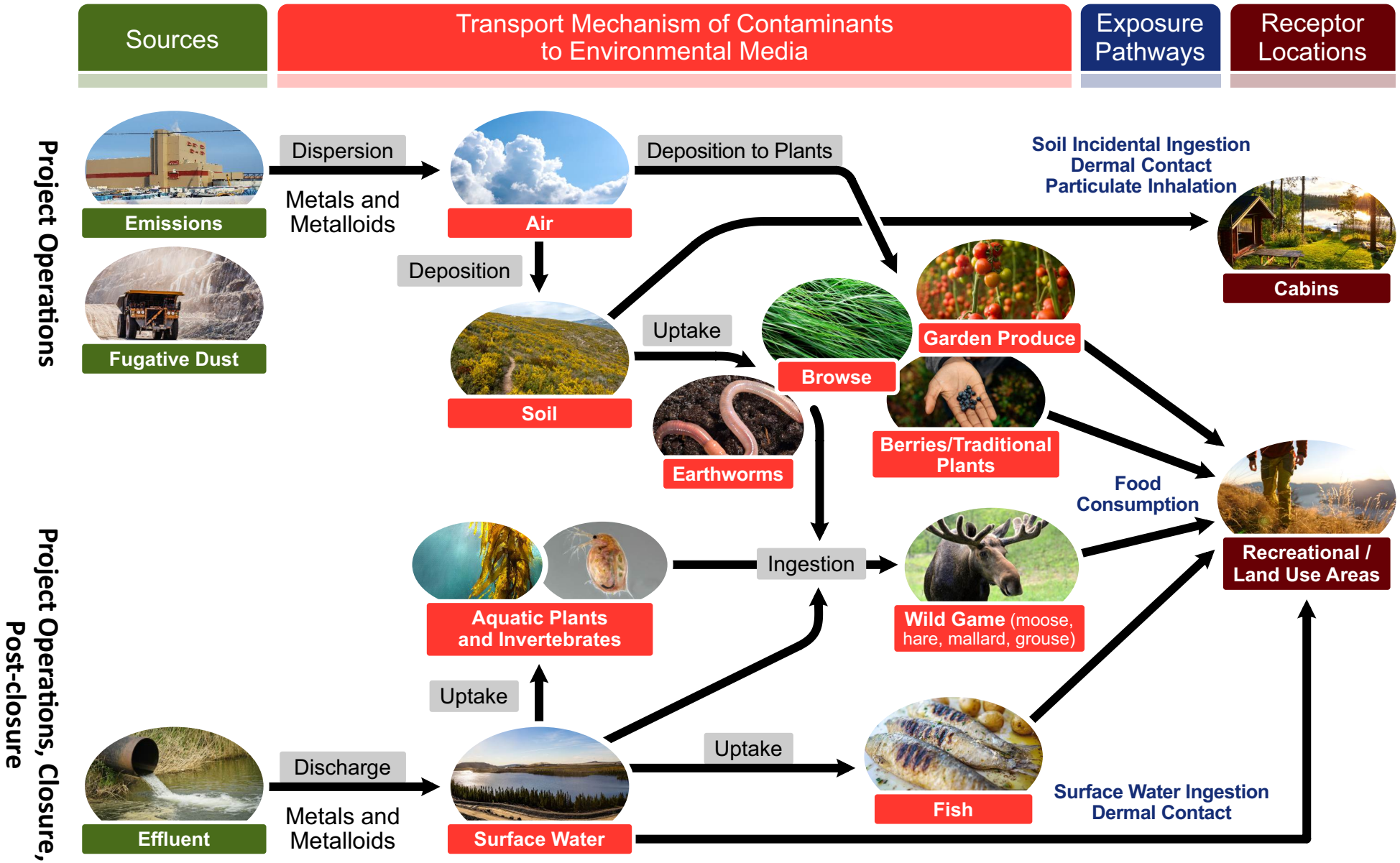


Figure 7: Human Health Conceptual Site Model for Multi-Media Assessment – Cabin Resident (Permanent and Seasonal)

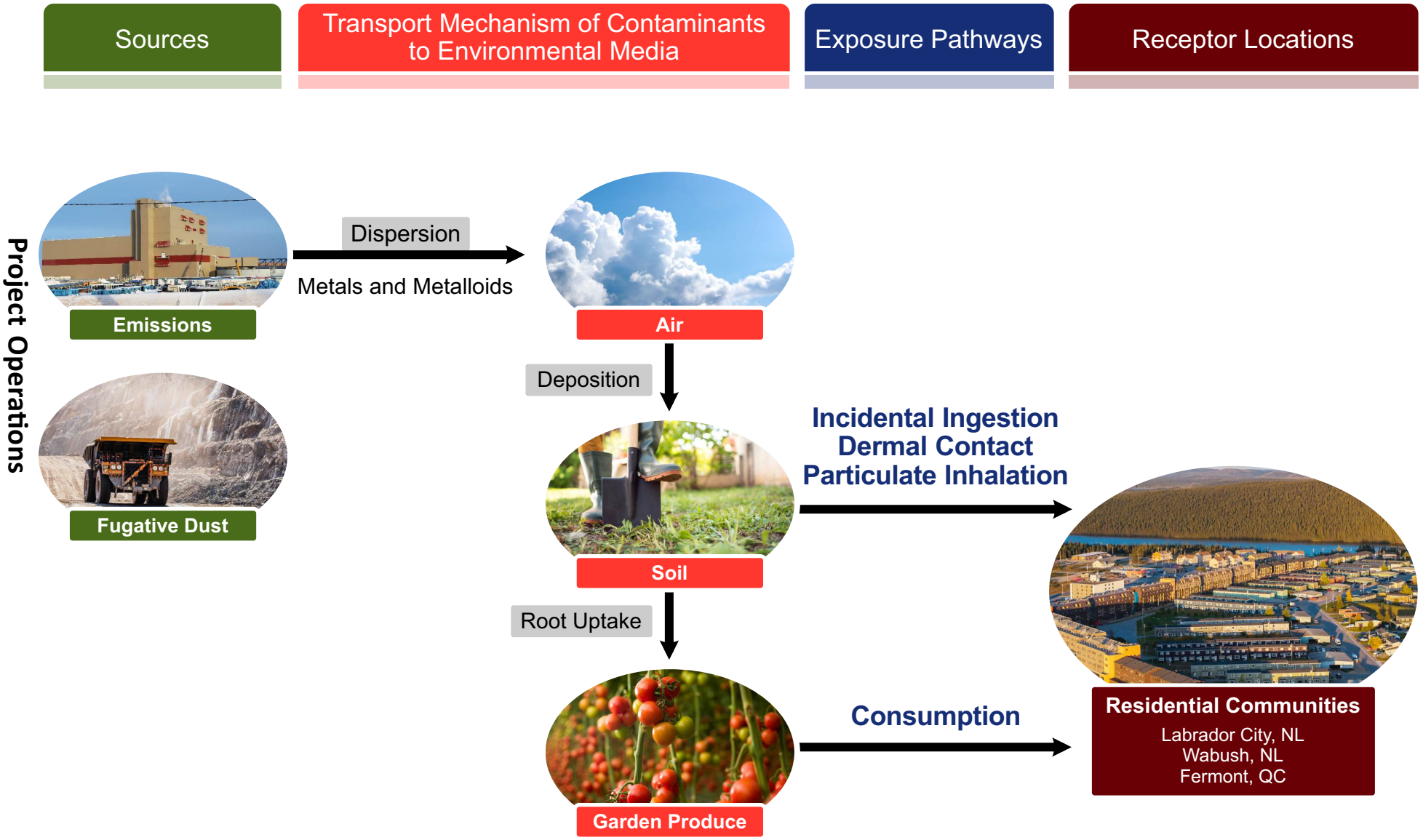


Figure 8: Human Health Conceptual Site Model for Multi-Media Assessment – Urban Resident

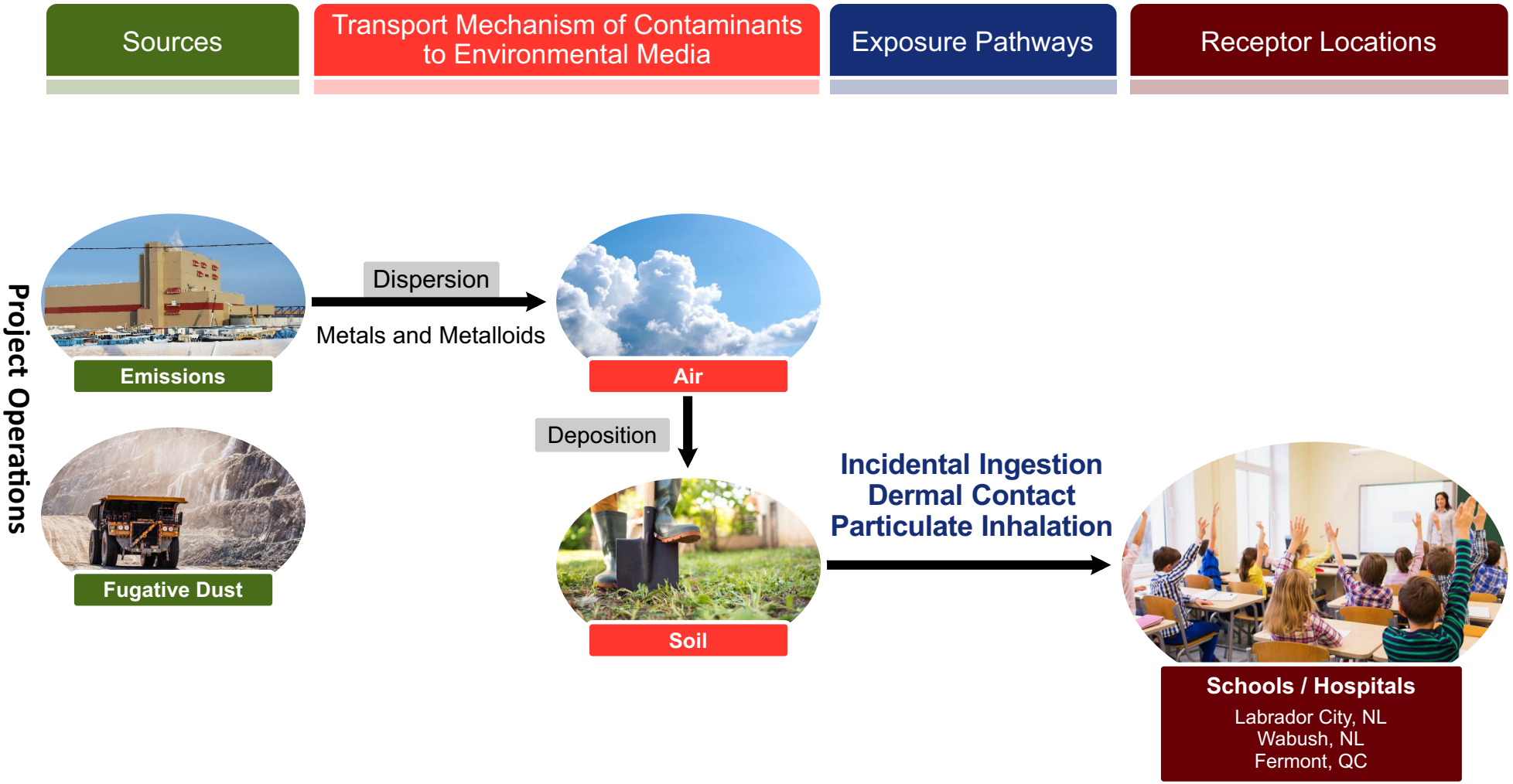


Figure 9: Human Health Conceptual Site Model for Multi-Media Assessment – Commercial User

5.0 EXPOSURE ASSESSMENT

5.1 Inhalation Assessment

Exposure point concentrations (EPCs) for the inhalation assessment are presented in Table 9. Receptors were assumed to be exposed directly to the COPC concentrations estimated in air during the Project. Metal concentrations were predicted based on the TPM concentration and assuming the concentrations of metals in the TPM were equal to the 95th percentile of metal concentrations of the ore and mine rock assays (Chapter 5 of the EIS; Champion 2025). Silica concentrations were predicted based on the PM_{10} concentration and the 95th percentile of silica concentrations to represent the respirable form that receptors will be exposed to. This conservatively assumes that all particulate matter will always contain the 95th percentile concentrations of metals and silica.

Table 9: Exposure Point Concentrations for Inhalation Assessment

Receptor	COPC	Location	Exposure Point Concentration (µg/m³)		
			1 hour	24 hour	Annual
Cabin Resident	NO_2	Cabins[(a)]	520.7	–	–
	Al	Cabins[(a)]	67.0	19.2	–
	DPM	Cabins[(a)]	–	–	0.1
	Mn	Cabins[(a)]	10.6	–	0.7
	Silica	Cabins[(a)]	332.1	–	7.6
Urban Resident	NO_2	R1 (Wabush)	94.3	–	–
		R2 (Labrador City)	92.6	–	–
		R3 (Fermont)	179.6	–	–
	Silica	R3 (Fermont)	163.3	–	–
Commercial User	NO_2	S1 (Wabush)	84.9	–	–
		S2 (Labrador City)	87.4	–	–
		S3/H2 (Fermont)	182.2	–	–
	Silica	S3/H2 (Fermont)	143.8	–	–
Recreational/ Land User	NO_2	L1 (Duley Lake South)	399.1	–	–
		L2 (Riordan Lake)	201.3	–	–
		LU max[(b)] (unnamed lake – Fermont)	940.1	–	32.2
	Al	L1 (Duley Lake South)	–	9.1	–
		L2 (Riordan Lake)	–	13.1	–
		LU max[(b)] (unnamed lake – Fermont)	140.6	60.9	–
	Mn	L1 (Duley Lake South)	–	–	0.2
		L2 (Riordan Lake)	–	–	0.1
		LU max[(b)] (unnamed lake – Fermont)	22.3	9.6	0.7
	Ni	LU max[(b)] (unnamed lake – Fermont)	0.21	–	–
	$PM_{2.5}$	LU max[(b)] (unnamed lake – Fermont)	–	53.9	–
	DPM	LU max[(b)] (unnamed lake – Fermont)	–	–	0.1
	Silica	L1 (Duley Lake South)	273.3	–	5.5
		L2 (Riordan Lake)	398.1	–	5.8
		LU max[(b)] (unnamed lake – Fermont)	721.7	–	19.7

(a) The maximum concentration among cabin locations considered as the EPC.

(b) The maximum concentration among land use areas considered as the EPC. LU12 had the maximum predicted concentations among land use locations, and is located on the unnamed lake west of Rose Pit, which is used recreationally by Fermont residents.

– = not identified as a COPC; Al = aluminum; COPC= contaminant of potential concern; DPM = diesel particulate matter; EPC = exposure point concentration; H=hospital; L = lake shoreline previously assessed by Alderon; LU = land use area; Mn = manganese; Ni = nickel; NO_2 = nitrogen dioxide; $PM_{2.5}$ = particulate matter with nominal aerodynamic diameter of 2.5 microns or less; R = resident; S = school; µg/m³ = micrograms per cubic metre.

5.2 Multi-Pathway Assessment

The exposure assessment includes estimates of the potential exposure that people may receive from each COPC and from each pathway carried forward for quantitative evaluation from the problem formulation (Table 6), including:

- Direct contact with COPCs in soil (incidental ingestion, dermal contact, soil inhalation) due to aerial deposition
- Ingestion of berries that have bioaccumulated COPCs from soil and aerial deposition
- Ingestion of Traditional plants that have bioaccumulated COPCs from soil and aerial deposition
- Ingestion of garden produce that have bioaccumulated COPCs from soil and aerial deposition
- Ingestion of COPCs in drinking water due to effluent discharge to surface water
- Incidental ingestion of and dermal contact with COPCs in surface water while swimming due to effluent discharge
- Ingestion of fish that have bioaccumulated COPCs from surface water due to effluent discharge
- Ingestion of wild game that have bioaccumulated COPCs from soil, surface water, and dietary items

Exposure is calculated as a total daily dose (i.e., amount taken in per day) from all relevant pathways in a multi-pathway evaluation (e.g., ingestion of dietary items, ingestion of soil and surface water, dermal contact with soil and surface water). This value is called the estimated daily intake and is typically expressed in milligrams of chemical per kilogram of body weight per day (mg/kg bw/day). The estimated daily intake was calculated based on the concentration of COPCs in the environmental media (e.g., surface water, soil, vegetation, fish, and wild game), receptor-specific parameters such as body weight, ingestion rate and dietary preferences, and the amount of time a person spends at a location.

A Microsoft Office Excel-based multi-pathway exposure model was developed to estimate exposure doses for each receptor at each of the assessment locations. The approach for the multi-pathway exposure model are discussed briefly in the sections below and further details are provided in Appendix F.

5.2.1 Exposure Point Concentrations

EPCs are an estimate of the concentrations of COPCs that people may be exposed to in each relevant exposure media. The derivation of EPCs considered chemical speciation, Base Case concentrations (COPC concentrations in the existing environment prior to Project implementation) and Project Alone Case concentrations (incremental changes to COPC concentrations because of the Project).

5.2.1.1 Base Case Concentrations

Base case concentrations were considered for each exposure media potentially affected by the Project. Base case concentrations were sourced from either baseline concentration directly measured in the LSA (i.e., soil and surface water), modelled tissue concentrations using BAFs, or a wildlife exposure model (Table 10). Appendix F provides detailed information on the derivation of Base Case concentrations. The EPCs for each media are also provided in Appendix F.

Table 10: Summary of Methods for Deriving Base Case Exposure Point Concentrations in Multi-Pathway Assessment

Exposure Media	Source of Base Case Concentrations			
	Measured Site-Specific Concentration	Modelled Tissue Concentration		
		Soil Bioaccumulation Model (BAF[(a)] x Baseline Concentration in Soil)	Surface Water Bioaccumulation Model (BAF[(a)] x Baseline Concentration in Surface Water)	Wildlife Exposure Model[(b)]
Human Receptors				
Soil	✓	–	–	–
Surface water	✓	–	–	–
Berries	–	✓	–	–
Labrador tea	–	✓	–	–
Garden produce	–	✓	–	–
Fish	–	–	✓	–
Wild game (moose, hare, grouse, mallard)	–	–	–	✓
Wild Game Dietary Items				
Browse (moose, hare, grouse, mallard[(c)])	–	✓	–	–
Terrestrial invertebrates (grouse, mallard[(c)])	–	✓	–	–
Aquatic plants (moose, mallard[(c)])	–	–	✓	–
Aquatic invertebrates (mallard[(c)])	–	–	✓	–

(a) Site-specific BAFs derived from baseline concentrations were applied for berries, labrador tea, and fish. Otherwise, literature-based BAFs were considered. See Appendix A for details on BAF derivation and selection.

(b) Base Case concentrations in wild game tissue were derived from the wildlife exposure model (see Appendix F) that considered baseline concentrations in soil, surface water, and dietary items. Baseline concentrations in dietary items (e.g., browse, aquatic invertebrates, terrestrial invertebrates) were derived from measured baseline soil and surface water concentrations and literature-based BAFs. Site-specific biotransfer factors (BTFs) were used to predict Base Case concentrations in wild game tissue from the modelled baseline daily intake of COPCs. The derivation of site-specific BTFs for wild game considered wild game meat concentrations from baseline data collected by Chan et al. (2021) in the Taiga Shield ecozone (where the Project is located).

(c) Represents the wild game potentially exposed to COPCs through ingestion of dietary item.

BAF = bioaccumulation factor; BTF = biotransfer factor; COPC = contaminant of potential concern; ✓ = applicable source of Base Case concentration for exposure media.

5.2.1.2 Project Alone Case Concentrations

Modelling was conducted to predict the incremental changes to COPC concentrations associated with the Project from aerial deposition of dust to soil and terrestrial plants, and from effluent discharged to surface water. Subsequent changes to country food/tissue concentrations because of changes to soil and surface water concentrations were then modelled (Table 11). Appendix F provides detailed on the derivation of Project Alone Case concentrations. The EPCs for each media are also provided in Appendix F.

Table 11: Summary of Methods for Deriving Project Alone Case Exposure Point Concentrations in Multi-Pathway Assessment

Exposure Media	Modelling Approach for Incremental Concentrations				
	Aerial Dust Deposition Model	Site-wide WBWQM	Soil Bioaccumulation Model (BAF[a] x Incremental Concentration in Soil)	Surface Water Bioaccumulation Model (BAF[a] x Incremental Concentration in Surface Water)	Wildlife Exposure Model[b]
Human Receptors					
Soil	✓	–	–	–	–
Surface water	–	✓	–	–	–
Berries	✓	–	✓	–	–
Labrador tea	✓	–	✓	–	–
Garden produce	✓	–	✓	–	–
Fish	–	–	–	✓	–
Wild game (moose, hare, grouse, mallard)	–	–	–	–	✓
Wild Game Dietary Items					
Browse (moose, hare, grouse, mallard[c])	✓	–	✓	–	–
Terrestrial invertebrates (grouse, mallard[c])	–	–	✓	–	–
Aquatic plants (moose, mallard[c])	–	–	–	✓	–
Aquatic invertebrates (mallard[c])	–	–	–	✓	–

(a) Site-specific BAFs derived from baseline concentrations were applied for berries, labrador tea, and fish. Otherwise, literature-based BAFs were considered. See Appendix A for details on BAF derivation and selection.

(b) Project Alone concentrations in wild game tissue were derived from the wildlife exposure model (see Appendix F) that considered predicted changes in concentrations of COPCs in soil, surface water, and dietary items. Project Alone concentrations in dietary items (e.g., browse, aquatic invertebrates, terrestrial invertebrates) were derived from predicted soil and surface water concentrations and literature-based BAFs. Site-specific biotransfer factors (BTFs) were used to predict Project Alone concentrations in wild game tissue from the modelled Project Alone daily intake of COPCs. The derivation of site-specific BTFs for wild game considered wild game meat concentrations from baseline data collected by Chan et al. (2021) in the Taiga Shield ecozone (where the Project is located).

(c) Represents the wild game potentially exposed to COPCs through ingestion of dietary item.

BAF = bioaccumulation factor; WBWQM = water balance and wate quality model; COPC = contaminant of potential concern; BTF = biotransfer factor; ✓ = modelling approach for incremental concentrations for exposure media.

5.2.2 Receptor Characterization

5.2.2.1 General Characteristics

Consistent with HHRA guidance (Health Canada 2024), the toddler was chosen as the most sensitive life stage for the assessment of non-carcinogens. Toddlers are considered more susceptible to non-cancer health effects from chemical exposures relative to adults because they typically have a greater intake rate to body weight ratio and certain behavioural activities may expose them to larger quantities of chemicals (e.g., playing in soil and inadvertently ingesting soil). In addition, some chemicals have been shown to be more toxic to toddlers than adults.

For the assessment of exposure and risks due to carcinogenic effects of COPCs, the composite receptor was evaluated. The composite receptor considers an exposure over the 80-year lifespan of an individual, comprising 5 months as an infant, 4.5 years as a toddler, 7 years as a child, 8 years as a teen, and 60 years as an adult as per Health Canada (2024) guidance.

The general receptor characteristics used in the HHRA are provided in Appendix F for each life stage. Receptor characteristics were preferentially based on Health Canada (2024), except the incidental surface water ingestion rates while swimming was obtained from US EPA (2019) in absence of Health Canada values.

5.2.2.2 Country Food Assumptions

To support the country food assessment, a survey was prepared by Champion and WSP and emailed to cabin owners associations within the LSA: Duley Lake Association, Riordan Lake Association, and Mills Lake Association. The survey inquired about the types of large game, small game, game birds, berries, and garden produce consumed, with each of the above categories having questions on magnitude and frequency of consumption. The results are provided in Appendix E.

Most cabin owners who responded to the survey (see Appendix E) indicated that they consumed locally hunted, harvested or grown country foods throughout the year including wild game (84%), fish (71%), berries (99%), and produce from backyard gardens (46%); therefore, cabin residents evaluated in the HHRA were assumed to consume all these food items. It was also assumed that cabin residents would consume Traditional plants, such as labrador tea that is present throughout the area. Moose, hare, grouse, and duck were selected as surrogates to evaluate wild game consumption, as the survey indicated that these are the most common types of wild game consumed. In addition, it was assumed that the urban resident would consume produce from backyard gardens.

HHRA guidance from Health Canada (2024) does not provide food consumption rates, but states that these should be selected or derived on a site-specific basis. Food consumption rates were primarily obtained from Health Canada (1994 and 2007). Where Health Canada did not provide values for a particular food item, other literature sources summarizing food consumption rates for Canadian populations were consulted (Richardson 1997 and Chan et al. 2021).

The food consumption rates and dietary proportions applied in the HHRA for each food item and life stage are summarized in Appendix F. The country food assumptions are summarized in Table 12.

Table 12: Summary of Country Foods and Garden Produce Assumptions

Country Food[(a)]	Urban Resident	Cabin Resident – Permanent	Cabin Resident – Seasonal
Wild Game	–	✓	✓
Moose	–	✓	✓
Hare	–	✓	✓
Grouse	–	✓	✓
Mallard	–	✓	✓
Dietary proportion of meats from wild game hunted in LSA	–	100%[(c)]	20%[(c)]
Fish	–	✓	✓
Dietary proportion of fish self-caught in LSA	–	100%[(b)]	100%[(b)]
Berries	–	✓	✓
Dietary proportion of berries self-picked in LSA	–	50%[(d)]	10%[(d)]
Labrador Tea	–	✓	✓
Dietary proportion of tea self-picked in LSA	–	100%[(c)]	20%[(c)]
Garden Produce	✓	✓	✓
Above ground	✓	✓	✓
Below ground	✓	✓	✓
Dietary proportion of garden produce from backyard gardens in LSA	10%[(d)]	50%[(d)]	10%[(d)]

(a) See Appendix F for detailed information regarding food consumption rates.

(b) Fish consumption rates (Health Canada 2007) are based on heavy fish consumers (subsistence or recreational fishing culture) for the permanent cabin resident and average daily finfish intake for the general public for the seasonal cabin resident.

(c) Dietary proportion of tea self-picked in LSA is an assumption.

(d) Based on CCME (2007) guidance on dietary proportions of produce obtained from backyard gardens under an agricultural scenario (applied to the permanent cabin resident) and a residential scenario (applied to the urban resident and seasonal cabin resident).

LSA = local study area; CCME = Canadian Council of Ministers of the Environment; ✓ = applicable country food item for the receptor; – = not evaluated for the receptor.

5.2.2.3 Exposure Frequency and Duration

The exposure frequencies and durations applicable for each receptor scenario are summarized below.

- **Urban resident:** assumed to permanently reside in Fermont, Wabash or Labrador City resulting in exposure through direct contact with soil and ingestion of garden produce 365 days per year.
- **Commercial user:** assumed to be present at institutional facilities within the LSA (i.e., schools and hospitals) as per Health Canada commercial land use assumptions (i.e., 10 hours per day, 5 days per week, 48 weeks per year) resulting in exposure through direct contact with soil.
- **Cabin resident:** assumed to either permanently reside in cabins within the LSA or seasonally reside in cabins with the LSA resulting in exposure through direct contact with soil, ingestion of surface water as a drinking water source, consumption of country foods, and direct contact with surface water while swimming/bathing.

Although country food items may only be available seasonally, it was assumed that harvested food items are preserved (e.g., frozen or smoked) and stored for consumption at home all year-round.

However, as per Health Canada guidance, potential risks were initially evaluated by comparing an unadjusted daily exposure (i.e., without dose averaging or an exposure term of 1) to a chronic TRV. Where target risk levels are exceeded, Health Canada recommends that dose averaging be conducted on a chemical-specific basis. Regardless, no dose averaging can be considered for the evaluation of exposure to developmental toxicants (i.e., lead, manganese [from surface water exposure] and methylmercury) (Health Canada 2023c).

Appendix F provides further details on evaluating less than chronic exposures.

5.2.3 Chemical Speciation

Arsenic and mercury speciation in the environment is critical when predicting human exposures and health risks. Environmental arsenic and mercury exist in two forms (i.e., inorganic and organic) that have a large determination on toxicity. Inorganic arsenic is much more toxic to humans than organic forms. Organic mercury (i.e., methylmercury) is more toxic and has greater bioaccumulation than inorganic forms; therefore, literature-based estimates on the percentage of inorganic arsenic and organic mercury were considered in deriving exposure estimates, as summarized in Table 13. Appendix F provides detailed information on the supporting literature and assumptions related to arsenic and mercury speciation.

Table 13: Arsenic and Mercury Speciation

Media	Inorganic Arsenic (% of Total Arsenic)	Organic Mercury (% of Total Mercury)
Soil	100%	1.5%
Surface water	100%	10%
Berries	57%	3.6%
Traditional plants	100%	1.9%
Above ground produce	94%	1.9%
Below ground produce	53%	1.9%
Moose	5.4%	90%
Grouse	5.4%	75%
Mallard	5.4%	75%
Hare	5.4%	75%
Fish	8.5%	85%

Note: See Appendix F for discussion on the source of these values.

5.2.4 Bio-availability

Relative absorption factors (RAFs) represent the fraction of the contaminant that is absorbed relative to the fraction absorbed in the study used to derive the TRV. Oral and dermal RAFs were preferentially obtained from Health Canada (2021), and are presented in Appendix F.

5.2.5 Exposure Estimates

Exposure was estimated in terms of the daily intake or daily dose from each exposure pathway retained for the multi-pathway assessment based on the equations presented in Appendix F. The equations used to estimate

exposure from soil ingestion, soil dermal contact, soil inhalation, surface water ingestion, and food ingestion were based on Health Canada (2024). The exposure equation used to estimate dermal contact with surface water was based on US EPA (2004). The exposure equations, sample calculations, and exposure estimates are presented in Appendix F.

6.0 TOXICITY ASSESSMENT

The purpose of the toxicity assessment is to identify the types of adverse effects a COPC may potentially cause as well as the relationship between the magnitude of COPCs to which human receptors may be exposed (dose) and the likelihood of an adverse effect (response).

6.1 Carcinogenic Classification

The evaluation of chronic toxic effects is based on each chemical's mode of action (i.e., threshold versus non-threshold mode of action). For non-cancer-causing chemicals, adverse effects may occur above a given threshold dose; however, for cancer-causing chemicals, there is no dose threshold and theoretically, any dose can exert a toxic effect.

Classification systems (Table 14) have been developed by Health Canada, US EPA, and the International Agency for Cancer Research (IARC) based on the carcinogenic properties of chemicals. Using these classification systems, the carcinogenicity classification of the identified COPCs was determined (Table 15).

Table 14: Classification Systems for Carcinogenic Contaminants

US EPA (1986)	US EPA (2005)	IARC (2025)	Health Canada (2021)
Group A–Carcinogenic to humans	Carcinogenic to humans	Group 1–Carcinogenic to humans	Group I–Carcinogenic to humans
Group B–Probably carcinogenic to humans Group B1–Limited human evidence available Group B2–Inadequate human evidence, sufficient animal evidence	Likely to be carcinogenic to humans	Group 2A–Probably carcinogenic to humans	Group II–Probably carcinogenic to humans
Group C–Possibly carcinogenic to humans	Suggestive evidence of carcinogenic potential	Group 2B–Possibly carcinogenic to humans	Group III–Possibly carcinogenic to humans
Group D–Not classifiable as to human carcinogenicity	Inadequate information to assess carcinogenic potential	Group 3–Not classifiable as to its carcinogenicity to humans	Group IV–Unlikely to be carcinogenic to humans
Group E–Evidence of non-carcinogenicity for humans	Not likely to be carcinogenic to humans	Does not apply	Group V–Probably not carcinogenic to humans Group VA–Inadequate data for evaluation
Does not apply	Does not apply	Does not apply	Group VI–Unclassifiable with respect to its carcinogenicity to humans

US EPA = United States Environmental Protection Agency; IARC = International Agency for Research on Cancer.

Table 15: Carcinogenic Classification Contaminants of Potential Concern

COPC	US EPA (2025)	IARC (2025)	Health Canada (2021)	Assessed as a Carcinogen?
Inhalation Exposure				
Aluminum	—	—	—	No
DPM	—	Group 1	—	**Yes**
Manganese	Group D	—	—	No
Nitrogen Dioxide	—	—	—	No
Oral Exposure				
Arsenic	Group A	Group 1	Group I	**Yes**
Barium	—	—	Group VI	No
Beryllium	—	Group 1	—	No
Chromium	—	Group 3	Group VI	No
Cobalt	—	Group 3	—	No
Iron	—	—	—	No
Lead	Group B2	Group 2A	—	No
Manganese	—	—	—	No
Mercury (inorganic)	—	Group 3	—	No
Methylmercury	—	Group 2B	—	No
Molybdenum	—	Group 2B	—	No
Selenium	—	Group 3	—	No

— = no classification provided; DPM = diesel particulate matter; COPC = contaminant of potential concern; US EPA = United States Environmental Protection Agency; IARC = International Agency for Research on Cancer.

6.2 Inhalation Assessment

For the inhalation assessment, health-based exposure limits to protect against toxic effects were based on the air quality criteria used for screening COPCs (see Appendix B for details). For chronic (annual) exposures to non-carcinogens, the exposure limit is generally based on a reference concentration (RfC).

DPM was the only carcinogenic COPC retained for further evaluation in the inhalation assessment. Health Canada does not provide an inhalation unit risk (IUR) for DPM, The exposure limit for DPM was derived based on the Health Canada (2022) model for the quantitative assessment of lung cancer mortality associated with exposure to DPM, which calculates the additional lung cancer mortality (ALCM) rate per 100,000 population in consideration of the annual exposure concentration, baseline mortality rate, and number of years of Project emissions. Details on this calculation are provided in Appendix B.

For criteria air containments, the health-based air quality guidelines (AQG) from WHO (2021) were considered as per Health Canada (2023a), rather than the CAAQS used for screening. However, for 24-hour $PM_{2.5}$ the CAAQS was considered as the WHO AQG is protective against chronic mortality, rather than acute effects (see Appendix B – Attachment B2 for details).

The health-based exposure limits are summarized in Table 16. Appendix B – Attachment 1 summarizes how each limit was derived.

The health-based exposure limits for crystalline silica was considered as the predicted silica concentrations in air are based on concentrations of quartz measured in the mine rock and ore.

Table 16: Health-Based Exposure Limits for Inhalation Assessment

COPC	Exposure Limit (µg/m³)	Type	Toxicological Endpoint	Source
Acute 1 hour				
NO_2	200	WHO AQG	Respiratory effects among asthmatics	WHO 2021
Aluminum	50	Acute RfC	Increased enzymatic alkaline phosphatase activities in male rats	TCEQ 2024
Manganese	9.1	Acute RfC	Mild inflammatory changes to the airway in rhesus monkeys	TCEQ 2017
Nickel	1.1	Acute RfC	Respiratory effects on metal plating factory workers	TCEQ 2017
Crystalline Silica	47	Acute RfC	Respiratory effects on rats (based on quartz exposure)	TCEQ 2013
Acute 24 hour				
$PM_{2.5}$	27	CAAQS	Not applicable - CAAQS are intended to drive continuous improvement in air quality and, in turn, protect human health and the environment across Canada	CCME 2025
Aluminum	8.9	Acute RfC	Changes in lung weight in male hamsters	TCEQ 2021
Manganese	5	Acute RfC	Mild inflammatory changes to the airway in rhesus monkeys	TCEQ 2017
Chronic annual				
NO_2	10	WHO AQG	Respiratory mortality (e.g., chronic obstructive pulmonary disease, respiratory and acute lower respiratory infection mortality)	WHO 2021
DPM	0.071	Mortality model	ALCM rate per 100,000 population (see Appendix B for details)	Health Canada 2023a
Manganese	0.09	Chronic RfC	Neurobehavioural function in humans (occupational study)	Cal OEHHA 2014
Crystalline Silica	3.1	Chronic RfC	Chronic silicosis in gold mine workers (based on respirable fraction)	US EPA 2024

COPC = contaminant of potential concern; NO_2 = nitrogen dioxide; RfC = reference concentration; µg/m³ = micrograms per cubic metre; WHO = World Health Organization; AQG = air quality guideline; TCEQ = Texas Commission on Environmental Quality; $PM_{2.5}$ = particulate matter with nominal aerodynamic diameter of 2.5 microns or less; CCME = Canadian Coundil of Ministers of the Environment; DPM = diesel particulate matter; ALCM = additional lung cancer mortality; US EPA = United States Environmental Protection Agency.

6.3 Multi-Pathway Toxicity Reference Values

For the multi-pathway assessment, available oral reference doses (RfDs) and slope factors (SFs) were identified. An oral RfD is an estimate of daily oral exposure to the human population (including susceptible subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime. Oral RfDs were adopted for the dermal contact pathway. An SF is an upper bound, approximating a 95% confidence limit, on the increased cancer risk from a lifetime of oral exposure to a chemical. RfDs and SFs used in the multi-pathway assessment were selected from Health Canada (2021). In the absence of a TRV from Health Canada, TRVs were selected from US EPA Integrated Risk Assessment System (IRIS) or US EPA Provisional Peer-Reviewed Toxicity Values (PPRTVs). Selected TRVs and the associated toxicological endpoints are presented in Table 17 for non-carcinogens and Table 18 for carcinogens.

Table 17: Reference Doses for Multi-Pathway Assessment

COPC	Selected RfD (mg/kg/d)	Toxicological Endpoint	Source
Arsenic	0.00006	Ischemic heart disease and type 2 diabetes	IRIS: 2025 (US EPA 2025)
Barium	0.2	Nephrotoxicity (renal lesions)	Health Canada 2021
Beryllium	0.002	Gastrointestinal toxicity (lesions of the small intestine)	Health Canada 2021
Chromium	1.5[(a)]	No effects observed at any dose level.	Health Canada 2021
Cobalt	0.0003	Decreased iodine uptake	PPRTV (US EPA 2008)
Iron	0.7	Adverse gastrointestinal effects	PPRTV (US EPA 2006)
Lead	0.0005	Neurodevelopmental toxicity (cognitive function)	Health Canada 2021
Manganese (dietary, soil)	0.14	Central nervous system effects	IRIS: 1995 (US EPA 2025)
Manganese (water)	0.025	Neurodevelopmental toxicity	Health Canada 2021
Mercury (inorganic)	0.0003	Immunotoxicity (autoimmune glomerulonephritis)	Health Canada 2021
Methylmercury	0.0002	Neurodevelopment toxicity (sensitive population)[(b)]	Health Canada 2021
Molybdenum	0.005	Increased uric acid levels	IRIS: 1992 (US EPA 2025)
Selenium	0.0055[(c)]	Hair and nail brittleness and loss (signs and symptoms of chronic selenosis)	Health Canada 2021

(a) Based on trivalent chromium. Trivalent chromium is the most thermodynamically stable species under oxidized conditions, conversely hexavalent chromium occurs in natural environments because it has a strong affinity for reducing substances such as organic matter (CCME 1999b).

(b) Standard for women of child-bearing age and children under 12 years.

(c) Standard for children 0-6 months old.

COPC = contaminant of potential concern; RfD = reference dose; mg/kg/d = milligram per kilogram per day; IRIS = Integrated Risk Information System; PPRTV = provisional peer-reviewed toxicity value.

Table 18: Slope Factors for Multi-Pathway Assessment

COPC	Selected SF $(mg/kg/d)^{-1}$	Toxicological Endpoint	Source
Arsenic	1.8	Cancer (bladder, lung, liver)	Health Canada 2021

COPC = contaminant of potential concern; SF = slope factor; $(mg/kg/d)^{-1}$ = per milligram per kilogram per day.

7.0 RISK CHARACTERIZATION

The risk characterization determines the potential for adverse health effects on receptors to occur based on the results of the exposure assessment (Section 5.0) and toxicity assessment (Section 6.0), discussed in detail for both the inhalation and multi-pathway assessments below.

7.1 Inhalation Assessment

7.1.1 Non-Carcinogenic Contaminants of Potential Concern

Potential risks from non-carcinogenic COPCs were characterized based on hazard quotients (HQs) derived as per Health Canada (2024) as follows:

$$HQ = \frac{Exposure\ Concentration}{HBEL}$$

Where:

Exposure Concentration = Predicted air concentration for 1 hr, 24 hr, or annual exposure period (µg/m^3)
HBEL = Health-Based Exposure Limit (µg/m^3)

Table 19 presents the HQs for the COPCs retained in the inhalation HHRA. When background exposure is considered, the acceptable risk level is an HQ of 1 (Health Canada 2023c). Air quality predictions for CACs included background exposure levels. For metals and PAHs, background exposure levels were considered negligible as the Project is not within an urban area or within the influence of other emissions; therefore, an HQ <1 was considered to represent negligible health risks from inhalation for this HHRA.

Table 19: Risk Estimates for Inhalation – Non-Carcinogenic Contaminants of Potential Concern

Receptor	COPC	Location	1 hour	24 hours	Annual
Cabin Resident	NO_2	Cabins[(a)]	**2.6**	-	-
	Al	Cabins[(a)]	**1.3**	**2.2**	-
	Mn	Cabins[(a)]	**1.2**	-	**8.2**
	Silica[(c)]	Cabins[(a)]	**7.1**	-	**2.5**
Urban Resident	NO_2	R1 (Wabush)	0.5	-	-
		R2 (Labrador City)	0.5	-	-
		R3 (Fermont)	0.9	-	-
	Silica[(c)]	R3 (Fermont)	**3.5**	-	-
Commercial User	NO_2	S1 (Wabush)	0.4	-	-
		S2 (Labrador City)	0.4	-	-
		S3/H2 (Fermont)	0.9	-	-
	Silica[(c)]	S3/H2 (Fermont)	**3.1**	-	-
Recreational/ Land User	NO_2	L1 (Duley Lake South)	**2.0**	-	-
		L2 (Riordan Lake)	1.0	-	-
		LU max (unnamed lake - Fermont)[(b)]	**4.7**	-	**3.2**

Table 19: Risk Estimates for Inhalation – Non-Carcinogenic Contaminants of Potential Concern

Receptor	COPC	Location	1 hour	24 hours	Annual
Recreational/ Land User	Al	L1 (Duley Lake South)	-	1.0	-
		L2 (Riordan Lake)	-	**1.5**	-
		LU max (unnamed lake -Fermont)[b]	**2.8**	**6.8**	-
	Mn	L1 (Duley Lake South)	-	-	**1.7**
		L2 (Riordan Lake)	-	-	**1.5**
		LU max (unnamed lake -Fermont)[b]	**2.4**	**1.9**	**8.2**
	Ni	LU max (unnamed lake -Fermont)[b]	1.0	-	-
	$PM_{2.5}$	LU max (unnamed lake -Fermont)[b]	-	**2.0**	-
	Silica[c]	L1 (Duley Lake South)	**5.8**	-	**1.8**
		L2 (Riordan Lake)	**8.5**	-	**1.9**
		LU max (unnamed lake -Fermont)[b]	**15.4**	-	**6.4**

Note: **Bold and shaded** = exceeds target of 1.

(a) Represents the cabin with the maximum predicted concentration.

(b) Represents the land use area with the maximum predicted concentration. LU12 had the maximum predicted concentrations among land use locations, and is located on the Unnamed lake west of Rose Pit, which is used recreationally by Fermont residents.

(c) Represents crystalline form of silica (i.e., quartz).

-- = not identified as a COPC; Al = aluminum; COPC= contaminant of potential concern; H=hospital; HQ= hazard quotient; L = lake shoreline previously assessed by Alderon; LU = land use area; Mn = manganese; NO_2 = nitrogen dioxide; $PM_{2.5}$ = particulate matter with nominal aerodynamic diameter of 2.5 microns or less; R = resident; S = school.

For acute exposures (1 and 24-hour averaging periods), where HQs were greater than 1, Table 20 presents the frequency of exceedance (%) of health-based exposure limits in four years of air quality modelling based on meteorological conditions (Chapter 5 of the EIS, Champion 2025). Potential risks from COPCs with HQs>1 are further discussed in the sections below.

Table 20: Frequency of Exceedance for Acute Exposures

Receptor	COPC	Location	Frequency of Exceedance (%)[c]	
			1 hour	24 hours
Cabin Resident	NO_2	Cabins[a]	0.4%	-
	Al	Cabins[a]	0.03%	0.3%
	Mn	Cabins[a]	0.003%	-
	Silica[d]	Cabins[a]	3.0%	-
Urban Resident	Silica[d]	R3 (Fermont)	1.5%	-
Commercial User	Silica[d]	S3/H2 (Fermont)	1.1%	-

Table 20: Frequency of Exceedance for Acute Exposures

Receptor	COPC	Location	Frequency of Exceedance (%)[c]	
			1 hour	24 hours
Recreational/ Land User	NO_2	L1 (Duley Lake)	0.4%	-
		LU max (unnamed lake - Fermont)[b]	3.8%	-
	Al	L2 (Ridorain Lake)	-	0.5%
		LU max (unnamed lake - Fermont)[b]	1.7%	17.5%
	Mn	LU max (unnamed lake - Fermont)[b]	1.3%	1.1%
	$PM_{2.5}$	LU max (unnamed lake - Fermont)[b]	-	1.2%
	Silica[d]	L1 (Duley Lake South)	1.6%	-
		L2 (Riordan Lake)	1.9%	-
		LU max (unnamed lake - Fermont)[b]	9.6%	-

(a) Represents the cabin with the highest frequency of exceedance

(b) Represents the land use area with the highest frequency of exceedance. LU12 had the maximum predicted concentations among land use locations, and is located on the Unnamed lake west of Rose Pit, which is used recreationally by Fermont residents.

(c) The frequency of exceedance in four years of air quality modelling based on meteorological conditions (2018 to 2021).

(d) Represents crystalline form of silica (i.e., quartz).

- = not identified as a COPC or hazard quotient <1; Al = aluminum; COPC= contaminant of potential concern; H=hospital; HQ= hazard quotient; L = lake shoreline previously assessed by Alderon; LU = land use area; Mn = manganese; NO_2 = nitrogen dioxide; $PM_{2.5}$ = particulate matter with nominal aerodynamic diameter of 2.5 microns or less; R = resident; S = school.

7.1.1.1 Nitrogen Dioxide

For 1-hour NO_2, based on air quality modelling, 0.4% and 3.8% of the time (i.e., out of 35,040 hours modelled), the predicted air quality concentrations were above the health-based exposure limit for the cabin resident and the recreational/land user, respectively; therefore, 99.6% and 96.2% of the time the predicted air quality concentrations, for either receptor, is below the health-based exposure limit. As a result, there is a low likelihood of either a cabin resident and/or a recreational/land user being present at the exact location and exact time of the predicted 1-hour NO_2 exceedance of the health-based exposure limit; therefore, the potential acute health risks due to inhalation of NO_2 are considered negligible.

Chronic annual exposures to a recreational/land user had a maximum HQ of 3.2 at LU12. The HQ conservatively assumes that a person will be present at LU12 for 24 hours a day and 365 days per year. LU12 is located along the shoreline of an unnamed lake west of Rose Pit used recreationally by Fermont residents; therefore, people will be exposed to NO_2 concentrations for a much lower frequency and duration. Even if someone were present at this location for 12 hours a day and 4 days a week, the resulting HQ would be 0.9; therefore, overall potential chronic health risks associated with NO_2 are considered negligible.

7.1.1.2 Aluminum

For acute exposures of aluminum to the cabin resident, the predicted air quality concentrations were below the health-based exposure limits (out of 35,040 hours modelled) 99.9% of the time based on the 1-hour averaging period and 99.7% of the time for the 24-hour averaging period.

For acute exposures of aluminum to the recreational/land user, the predicted air quality concentrations were below the health-based exposure limits (out of 35,040 hours modelled) 98.3% of the time based on the 1-hour averaging period and 82.5% of the time for the 24-hour averaging period. However, these estimates assume that all particulate matter (as TPM) for the Project will always contain aluminum at the 95th percentile concentration measured in the mine and ore rock assays, which is an overly conservative assumption. As land use locations will be used intermittently, people will not be continuously exposed to maximum predicted 95th percentile concentrations. Further, the acute air quality criteria for aluminum is based on the respirable fraction rather than TPM. Based on average aluminum concentrations in the ore and mine rock assays and modelled PM_{10} concentrations from the Project, the predicted air concentrations for aluminum are below or marginally above the health-based exposure limits (Table 21).

Table 21: Risk Estimates for Acute Inhalation of Aluminum – Based on Average Metal Concentrations

Receptor	Averaging Period	Average Concentration in Ore and Mine Rock Assays (%)	PM10 Concentration µg/m³	Aluminum Concentration µg/m³	HQ
Recreational Land User at LU areas[(a)]	1-hour	3.0	824	25.0	0.5
	24-hour		316	9.6	1.1

Note: **Bold and shaded** = exceeds target of 1

(a) Represents the land use area with the highest frequency of exceedance. LU12 had the maximum predicted concentations among land use locations, and is located on the Unnamed lake west of Rose Pit, which is used recreationally by Fermont residents.

COPC= contaminant of potential concern; HQ= hazard quotient; LU = land use; PM10 = particulate matter with nominal aerodynamic diameter of 10 microns or less.

There is a low likelihood of either a cabin resident and/or a recreational/land user being present at the exact location and exact time of the predicted 1-hour and 24-hour exceedances of the health-based exposure limits; therefore, the potential acute health risks due to inhalation of aluminum are considered negligible.

7.1.1.3 Manganese

For 1-hour manganese, based on air quality modelling, 0.003% and 1.3% of the time (i.e., out of 35,040 hours modelled), the predicted air quality concentrations were above the health-based exposure limit for the cabin resident and the recreational/land user, respectively; therefore, 99.9% and 98.7% of the time the predicted air quality concentrations, for either receptor, is below the health-based exposure limit. As a result, there is a low likelihood of either a cabin resident and/or a recreational/land user being present at the exact location and exact time of the predicted 1-hour aluminum exceedance of the health-based exposure limit; therefore, the potential 1-hour health risks due to inhalation of manganese are considered negligible.

For annual exposures to manganese, HQs>1 were also identified for the cabin resident and the recreational user. However, as discussed for aluminum, these exposure estimates are conservative as they are based on 95th percentile concentrations, that a person will not be exposed to over an entire year. Table 22 presents the annual HQs for manganese based on average metal concentrations.

Table 22: Risk Estimates for Annual Inhalation of Manganese – Based on Average Metal Concentrations

Receptor	Location	Average Concentration in Ore and Mine Rock Assays (%)	Annual TPM Concentration µg/m^3	Annual Manganese Concentration µg/m^3	HQ
Resident	Cabins[(a)]	0.29%	16.9	0.05	0.5
Recreational/ Land User	L1 (Duley Lake South),		12.0	0.03	0.4
	L2 (Riordan Lake)		10.5	0.03	0.3
	LU max (unnamed lake -Fermont)[(b)]		57.3	0.17	**1.8**

Note: **Bold and shaded** = exceeds target of 1.

(a) Represents the cabin location with the maximum predicted concentrations.

(b) Represents the land use areas with the maximum predicted concentrations. LU12 had the maximum predicted concentations among land use locations, and is located on the Unnamed lake west of Rose Pit, which is used recreationally by Fermont residents.

COPC = contaminant of potential concern; HQ= hazard quotient; L = lake shoreline previously assessed by Alderon; LU = land use area; TPM = total particulate matter.

The annual HQ remains above one at LU12 when average manganese concentrations are considered. The HQ of 1.8 assumes that a receptor will be present at LU12 for 24 hours a day and 365 days per year. LU12 is located along the shoreline of an unnamed lake west of Rose Pit used recreationally by Fermont residents. If someone were to present at this location everyday for 12 hours a day, the resulting HQ would be 0.9. Overall, potential chronic health risks associated with manganese are considered negligible.

7.1.1.4 $PM_{2.5}$

For 24-hour NO_2, based on air quality modelling (i.e., out of 35,040 hours modelled), 98.8% of the time the predicted air quality concentrations were below the health-based exposure limit for the recreational/land user. As a result, there is a low likelihood of a recreational/land user being present at the exact location and exact time of the predicted 24-hour $PM_{2.5}$ exceedance of the health-based exposure limit; therefore, the potential acute health risks due to inhalation of $PM_{2.5}$ are considered negligible.

7.1.1.5 Silica

For 1-hour silica, based on air quality modelling (i.e., out of 35,040 hours modelled), the predicted air quality concentrations were below the health-based exposure limit 97.0% of the time for the cabin resident, 98.5% of the time for the urban resident, 98.9% of the time for the commerical user, and 98.3% of the time for the recreational/land user. As a result, there is a low likelihood of receptors being present at the exact location and exact time of the predicted 1-hour silica exceedance of the health-based exposure limit; therefore, the potential acute health risks due to inhalation of silica are considered negligible.

For annual exposures to silica, HQs>1 were also identified from annual exposures to silica for the cabin resident and recreational user. However, as discussed for aluminum and manganese these exposure estimates are conservative as they are based on 95th percentile concentrations, that a person will not be exposed to over the entire year. Table 23 presents the annual HQs for silica based on average metalloid concentrations.

Table 23: Risk Estimates for Annual Inhalation of Silica – Based on Average Concentrations

Receptor	Location	Average Concentration in Ore and Mine Rock Assays (%)	Annual PM10 Concentration µg/m^3	Annual Silica Concentration µg/m^3	HQ
Resident	Cabins[(a)]	40%	8.6	3.5	**1.1**
Recreational/ Land User	L1 (Duley Lake South)		6.25	2.5	0.8
	L2 (Riordan Lake)		6.59	2.6	0.9
	LU max (unnamed lake - Fermont)[(a)]		22.53	9.0	**2.9**

Note: **Bold and shaded** = exceeds target of 1.

(a) Represents the cabin location with the maximum predicted concentrations

(b) Represents the land use areas with the maximum predicted concentrations. LU12 had the maximum predicted concentations among land use locations, and is located on the Unnamed lake west of Rose Pit, which is used recreationally by Fermont residents.

COPC= contaminant of potential concern; HQ= hazard quotient; L = lake shoreline previously assessed by Alderon; LU = land use area; PM_{10} = particulate matter with nominal aerodynamic diameter of 10 microns or less.

The annual HQ remained above one when average silica concentrations were considered for the resident at cabins and the recreational land user. However, the calculated HQs overestimate potential risks:

- The elevated HQ for the cabin resident was marginal (1.1) and assumes that a person will be present at cabins 24 hours a day, 365 days per year.
- The elevated HQ for the recreational land user is based on annual exposure concentrations at LU12 and is the only land use location with HQs>1. The HQ of 2.9 assumes that a receptor will be present at LU12 for 24 hours a day and 365 days per year. LU12 is located along the shoreline of an unnamed lake west of Rose Pit used recreationally by Fermont residents. If someone were to present at this location for 12 hours a day and 4 days a week, the resulting HQ would be 0.8.
- The exposure concentrations were estimated based on PM_{10}, which does not represent the toxicologically relevant respirable fraction of particulate matter that can enter the respiratory tract (Health Canada 2023a). The chronic RfC used to derive the HQ is based on a respirable fraction as defined by the occupational hygiene methods described by American Conference of Governmental Industrial Hygienists (ACGIH) (≤4 µm), noting that this definition differs from the typical environmental definition of respirable as particles ≤10 µm (CalEPA 2005).

Overall, potential chronic health risks associated with silica are considered negligible.

7.1.2 Carcinogenic Contaminants of Potential Concern

The ALCM (deaths per 100,000 population) for DPM was calculated as described in Appendix B, where an ALCM less than 1 per 100,000 was considered to represent negligible health risks (Health Canada 2024). The ALCM for DPM was 1.5 per 100,000 at LU12 and a maximum of 1.3 per 100,000 at cabins (Table 24). Based on the conservative assumptions underlying the predicted concentrations (see Section 8.0 for details), the results overestimate potential exposures and the predicted carcinogenic risks from DPM are unlikely and negligible.

Table 24: Risk Estimates for Inhalation – Carcinogenic Contaminants of Potential Concern

Receptor	COPC	Location	ALCM
Resident	DPM	Cabins[(a)]	1.3
Recreational/Land User	DPM	LU max (unnamed lake -Fermont)[(b)]	1.5

(a) Represents the cabin location with the maximum predicted concentrations.

(b) Represents the land use areas with the maximum predicted concentrations. LU12 had the maximum predicted concentations among land use locations, and is located on the Unnamed lake west of Rose Pit, which is used recreationally by Fermont residents.

ALCM = additional lung cancer mortality; C = cabin; COPC= contaminant of potential concern; DPM = diesel particulate matter; LU = land use area.

7.2 Multi-Pathway Assessment

7.2.1 Non-Carcinogenic Contaminants of Potential Concern

The potential for long-term health effects from multi-pathway exposures related to soil, water and country foods was assessed by calculating HQs for non-carcinogenic COPCs as follows (Health Canada 2024):

$$HQ = \frac{Dose_{total}}{RfD}$$

Where:

HQ = Hazard quotient due to chronic exposure to COPCs in soil, water and country foods (unitless)
$Dose_{total}$ = Total exposure to COPCs in soil, water and country foods (mg/kg BW/day)
RfD = Reference dose (mg/kg BW/d)

As per Health Canada (2023c), a target HQ of 1 is applicable for threshold chemicals if all potential exposure media and pathways are considered, including background exposures. A target HQ of 1 was considered acceptable for the cabin resident under the Base + Project Case scenario, which quantified both background and incremental exposures to COPCs from soil, surface water and country foods (including berries, produce, fish, and wild game).

Where an HHRA evaluated does not evaluate potential exposure from all media or where only Project-related exposures (excluding background) are considered, a target HQ of 0.2 is applicable (Health Canada 2023c). A target HQ of 0.2 was considered acceptable for the urban resident, which quantified exposures from soil and garden produce only and for the commercial user, which quantified exposures from soil only. A target HQ of 0.2 was also considered acceptable for the Project Alone Case for all receptors where background exposures were not considered.

An HQ less than the target value indicates that a health risk is not expected or is negligible. Conversely, an HQ greater than target value does not necessarily indicate that adverse health effects will occur given the conservative nature of the risk assessment process, instead the assumptions and uncertainties in the HHRA should be further evaluated.

The estimated HQs for the human receptors for each assessment scenario are provided in Appendix F. A summary and discussion around the estimated HQs are provided below for each receptor group.

7.2.1.1 Cabin Resident

A target HQ of 1 was considered acceptable for the cabin resident under the Base + Project Case scenario, which quantified both background and incremental exposures to COPCs from soil, surface water and country foods (including berries, produce, fish, and wild game). Both a seasonal and permanent cabin resident were evaluated, representing a moderate and high reliance on country foods, respectively.

As shown in Tables 25 and 26, HQs were above the target of one for:

- The permanent cabin resident from exposure to manganese under the Base + Project Case (Operations, Closure, and Post-closure). However, the HQ is driven by soil background exposures and the Project Alone Case had HQs<0.2.
- The permanent and seasonal cabin resident from exposure to methylmercury under the Base Case and the Base + Project Case (Operations, Closure, and Post-closure). However, the HQ is driven by background surface water exposures and the Project Alone Case had HQs<0.2.

As the HQ based on Project Alone exposures is less that 0.2, potential risks from manganese and methylmercury because of the Project are negligible.

Table 25: Hazard Quotients for the Permanent Cabin Resident

COPC	Base Case	Base + Project Case			Project Alone Case		
		Operations	Closure	Post-closure	Operations	Closure	Post-closure
Arsenic	4.9E-01	7.1E-01	6.1E-01	4.9E-01	2.2E-01	1.2E-01	4.8E-02
Barium	1.3E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-03	1.4E-03	1.3E-03
Beryllium	9.0E-03	1.1E-02	9.7E-03	7.9E-03	2.0E-03	8.9E-04	4.6E-04
Chromium	5.2E-04	5.1E-04	5.0E-04	4.9E-04	4.9E-05	4.7E-05	4.3E-05
Cobalt	5.0E-01	9.0E-01	7.4E-01	4.8E-01	4.8E-01	3.1E-01	6.4E-02
Iron	7.1E-01	8.4E-01	8.2E-01	8.1E-01	2.1E-01	1.7E-01	1.6E-01
Lead[(a)]	3.5E-01	2.6E-01	2.6E-01	2.5E-01	2.6E-02	2.6E-02	2.6E-02
Manganese	9.9E-01	**1.2E+00**	**1.1E+00**	**1.1E+00**	1.9E-01	1.4E-01	1.2E-01
Mercury (inorganic)[(a)]	4.8E-01	4.6E-01	4.6E-01	4.4E-01	6.2E-04	6.2E-04	6.2E-04
Methylmercury[(a)]	**3.3E+00**	**3.1E+00**	**3.1E+00**	**3.0E+00**	2.9E-03	2.9E-03	2.9E-03
Molybdenum	4.4E-02	1.5E-01	1.2E-01	1.1E-01	1.1E-01	7.8E-02	6.8E-02
Selenium	2.0E-01	4.6E-01	3.6E-01	6.7E-01	2.1E-01	1.6E-01	4.7E-01

Note: **Bold and shaded** = exceeds target of 1.

(a) HQs for these COPCs are driven by ingestion of surface water and fish. Given that predicted COPC concentrations in surface water are lower compared to measured baseline concentrations in Duley Lake, the resulting HQs are lower for Base + Project Case compared to Base Case (see Appendix D).

COPC = contaminant of potential concern; HQs = hazard quotients.

Table 26: Hazard Quotients for the Seasonal Cabin Resident

COPC	Base Case	Base + Project Case			Project Alone Case		
		Operations	Closure	Post-closure	Operations	Closure	Post-closure
Arsenic	3.6E-01	5.3E-01	4.5E-01	3.3E-01	1.7E-01	9.1E-02	1.2E-02
Barium	6.5E-03	7.5E-03	7.5E-03	7.4E-03	1.0E-03	1.0E-03	9.4E-04
Beryllium	5.6E-03	6.7E-03	5.9E-03	4.7E-03	1.2E-03	4.1E-04	1.2E-04
Chromium	2.8E-04	3.0E-04	2.9E-04	2.9E-04	1.7E-05	1.7E-05	1.5E-05
Cobalt	2.2E-01	5.5E-01	4.3E-01	2.4E-01	3.3E-01	2.1E-01	2.6E-02
Iron	4.6E-01	5.4E-01	5.3E-01	5.2E-01	8.5E-02	6.8E-02	6.3E-02
Lead[(a)]	1.3E-01	1.1E-01	1.1E-01	1.1E-01	6.8E-03	6.8E-03	6.8E-03
Manganese	3.0E-01	4.7E-01	4.2E-01	4.1E-01	1.7E-01	1.2E-01	1.1E-01
Mercury (inorganic)[(a)]	2.0E-01	1.9E-01	1.9E-01	1.9E-01	1.3E-04	1.3E-04	1.3E-04
Methylmercury[(a)]	**1.5E+00**	**1.4E+00**	**1.4E+00**	**1.4E+00**	5.8E-04	5.8E-04	5.8E-04
Molybdenum	1.6E-02	7.1E-02	5.4E-02	4.2E-02	5.6E-02	3.8E-02	2.7E-02
Selenium	4.8E-02	1.1E-01	8.3E-02	1.4E-01	5.0E-02	3.5E-02	9.4E-02

Note: **Bold and shaded** = exceeds target of 1.

(a) HQs for these COPCs are driven by ingestion of surface water and fish. Given that predicted COPC concentrations in surface water are lower compared to measured baseline concentrations in Duley Lake, the resulting HQs are lower for Base + Project Case compared to Base Case (see Appendix D).

COPC = contaminant of potential concern; HQs = hazard quotients.

7.2.1.2 Urban Resident

As shown in Table 27, HQs for the urban resident were above the target of 0.2 for iron and manganese under the Base Case (i.e., exisiting conditions) and Base + Project Case (i.e., existing conditions plus predicted incremental changes associated with the Project). A target HQ of 0.2 was considered acceptable for the urban resident, which quantified exposures from direct contact with soil and consumption of garden produce only. The HQ is driven by background exposures. As the HQ based on Project Alone exposures is less that 0.2, potential risks from the Project are negligible.

7.2.1.3 Commercial User

As shown in Table 28, HQs for the commercial user were above the target of 0.2 for iron under the Base Case (i.e., exisiting conditions) and Base + Project Case (i.e., existing conditions plus predicted incremental changes associated with the Project). A target HQ of 0.2 was considered acceptable for the commercial user, which quantified exposures from direct contact with soil only. The HQ is driven by background exposures. As the HQ based on Project Alone exposures is less that 0.2, potential risks from the Project are negligible.

Table 27: Hazard Quotients for the Urban Resident

COPC	Base Case	Base + Project Case			Project Alone Case		
		Operations	Closure	Post-closure	Operations	Closure	Post-closure
Arsenic	1.5E-01	1.5E-01	1.5E-01	1.5E-01	7.3E-04	7.3E-04	7.3E-04
Barium	3.3E-03	3.3E-03	3.3E-03	3.3E-03	2.1E-05	2.1E-05	2.1E-05
Beryllium	8.0E-04	8.1E-04	8.1E-04	8.1E-04	7.7E-06	7.7E-06	7.7E-06
Chromium	2.0E-04	2.0E-04	2.0E-04	2.0E-04	7.5E-07	7.5E-07	7.5E-07
Cobalt	1.5E-01	1.5E-01	1.5E-01	1.5E-01	4.5E-04	4.5E-04	4.5E-04
Iron	**4.1E-01**	**4.1E-01**	**4.1E-01**	**4.1E-01**	2.1E-03	2.1E-03	2.1E-03
Lead	6.9E-02	6.9E-02	6.9E-02	6.9E-02	2.3E-04	2.3E-04	2.3E-04
Manganese	**2.4E-01**	**2.4E-01**	**2.4E-01**	**2.4E-01**	6.7E-04	6.7E-04	6.7E-04
Mercury (inorganic)	1.2E-02	1.2E-02	1.2E-02	1.2E-02	2.8E-06	2.8E-06	2.8E-06
Methylmercury	3.4E-04	3.4E-04	3.4E-04	3.4E-04	7.1E-08	7.1E-08	7.1E-08
Molybdenum	3.5E-03	3.6E-03	3.6E-03	3.6E-03	3.7E-05	3.7E-05	3.7E-05
Selenium	7.0E-04	7.1E-04	7.1E-04	7.1E-04	2.5E-06	2.5E-06	2.5E-06

Note: **Bold and shaded** = exceeds target of 0.2.
COPC = contaminant of potential concern.

Table 28: Hazard Quotients for the Commercial User

COPC	Base Case	Base + Project Case			Project Alone Case		
		Operations	Closure	Post-closure	Operations	Closure	Post-closure
Arsenic	1.3E-01	1.3E-01	1.3E-01	1.3E-01	5.4E-04	5.4E-04	5.4E-04
Barium	2.1E-03	2.2E-03	2.2E-03	2.2E-03	1.5E-05	1.5E-05	1.5E-05
Beryllium	5.4E-04	7.9E-04	7.9E-04	7.9E-04	5.7E-06	5.7E-06	5.7E-06
Chromium	1.8E-04	1.8E-04	1.8E-04	1.8E-04	5.6E-07	5.6E-07	5.6E-07
Cobalt	1.2E-01	1.2E-01	1.2E-01	1.2E-01	3.3E-04	3.3E-04	3.3E-04
Iron	**3.9E-01**	**4.0E-01**	**4.0E-01**	**4.0E-01**	1.5E-03	1.5E-03	1.5E-03
Lead	5.4E-02	5.4E-02	5.4E-02	5.4E-02	1.7E-04	1.7E-04	1.7E-04
Manganese	1.1E-01	1.2E-01	1.2E-01	1.2E-01	4.9E-04	4.9E-04	4.9E-04
Mercury (inorganic)	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.3E-06	1.3E-06	1.3E-06
Methylmercury	3.4E-05	3.4E-05	3.4E-05	3.4E-05	3.0E-08	3.0E-08	3.0E-08
Molybdenum	8.1E-04	8.3E-04	8.3E-04	8.3E-04	2.1E-05	2.1E-05	2.1E-05
Selenium	4.6E-04	4.6E-04	4.6E-04	4.6E-04	1.7E-06	1.7E-06	1.7E-06

Note: **Bold and shaded** = exceeds target of 0.2.
COPC = contaminant of potential concern.

7.2.2 Carcinogenic Contaminants of Concern

Long-term health effects were evaluated by calculating incremental lifetime cancer risks (ILCRs) for carcinogens. An ILCR is the product of the exposure likely to be incurred by the person and the cancer risk per unit exposure to the COPC. An ILCR less than or equal to one-in-one hundred thousand (one in 100,000) indicates that the estimated exposure is associated with negligible health effects; conversely, when the ILCR is greater than one-in-one hundred thousand, this does not necessarily indicate that adverse health effects will occur, but that the assumptions and conservative approach relied upon in the HHRA should be further scrutinized.

ILCRs were calculated for arsenic as follows:

$$ILCR = Dose_{total} \times SF$$

Where:

ILCR = incremental lifetime cancer risk
$Dose_{total}$ = Total exposure to COPCs in soil, water and country foods (mg/kg BW/day)
SF = Oral slope factor ($[mg/kg/d]^{-1}$)

The estimated ILCRs for the human receptors for each assessment scenario are provided in Appendix F. A summary of the estimated ILCRs is provided in Table 29. The ILCR values are related to incremental chemical exposures because of the Project only (i.e., Project Alone Case).

Carcinogenic risks due to arsenic were elevated for the permanent cabin resident for the Project Alone Case (Operations) with an ILCR of 1.3 in 100,000. Exposure estimates were driven by drinking water ingestion (56% of total estimated daily intake of arsenic) (see Appendix F). However, the exposure estimates assume that the permanent cabin resident will be exposed to the surface water concentrations predicted during Operations (26 years) over their entire lifetime (80 years). By Closure (10 years) and Post-closure (40 years) the ILCRs are below 1 in 100,000, with ILCRs of 0.7 in 100,000 by Closure and 0.2 in 100,000 by Post-closure; therefore, potential carcinogenic risks from arsenic because of the Project are negligible.

Table 29: Incremental Lifetime Cancer Risks for Arsenic

COPC	Project Alone Case		
	Operations	Closure	Post-closure
Permanent Cabin Resident	**1.3E-05**	7.0E-06	2.2E-06
Seasonal Cabin Resident	1.0E-05	5.3E-06	4.9E-07
Urban Resident	1.5E-08	1.5E-08	1.5E-08
Commercial User	8.4E-09	8.4E-09	8.4E-09

Note: **Bold and shaded** = exceeds target of 1 per 100,000 (1.0E-05).

COPC = contaminant of potential concern.

8.0 UNCERTAINTIES

The assessment of potential human health risks followed the risk assessment framework which involves four sequential components. There are uncertainties that are inherent to each component of the framework. These uncertainties influence the final assessment of potential human health risk. Where uncertainties exist, a conservative approach was taken such that the assessment likely overestimates the potential risks to human health. Uncertainties in the HHRA and the potential implications of these uncertainties on the interpretation of risks are discussed in Table 30 (inhalation assessment) and Table 31 (multi-pathway assessment).

Table 30: Uncertainties in the Inhalation Assessment

Source of Uncertainty	Overestimate/ Underestimate/ Neutral?
Baseline Concentrations	
The baseline air data for CACs were based on background annual average concentration measured at the Hudson Drive Firehall station in Labrador City. Baseline data for CACs specific to 1-hour and 24-hour exposure durations were not available, and no baseline data for metals were available. However, within the RSA, the air quality discipline identified no RFD that would contribute in more than negligible contributions to the predictions of COPCs from the Project (Chapter 5 of the EIS; Champion 2025).	Neutral
Predicted Concentrations	
The predicted concentrations of COPCs from the Project incorporated several conservative assumptions to increase the confidence that the modelled predictions will not underestimate the effects of the Project: ▪ The release estimates are based on an operating year that assumes the greatest movement of ore, mine rock, and overburden; Operations were assumed to be occurring simultaneously 24 hours per day, 365 days per year. ▪ The mobile fleet was assumed to be operating simultaneously 24 hours per day, 365 days per year (except for mobile equipment in the TMF). ▪ The primary ore crusher and in-pit crusher were assumed to be operating at the maximum throughput 24 hours per day. ▪ Emissions from the largest blast size were considered for every hour of the meteorological dataset, whereas blasting will be limited to daytime hours. ▪ Emission rates for wind erosion from the tailings area and waste rock stockpile were calculated using the maximum exposed surface area. Overall, the assessment approach also represents a worst-case emission scenario that is expected to overestimate the ground-level concentrations (Chapter 5 of the EIS; Champion 2025). Further, any potential meteorological anomalies in the dataset were included.	Overestimate
Metal concentrations in air were predicted based on the TPM concentration and assuming the concentrations of metals in the TPM were equal to the 95th percentile of metal concentrations of the ore and mine rock assays (Chapter 5 of the EIS; Champion 2025).	Overestimate
HHRA Assumptions	
People were conservatively assumed to be exposed to COPCs continuously at all receptor locations. Unacceptable risks were driven by cabin and land use locations closest to the Project, where the assumed exposure durations overestimate potential risks.	Overestimate
For metals, the TRVs used in the HHRA were selected from reputable sources including CalEPA (for annual exposure to manganese) and Texas Commission on Environmental Quality (TCEQ) for acute exposures. These TRVs are based on the most sensitive endpoints, with the application of safety factors to protect sensitive subpopulations. The uncertainty associated with TRVs is highly dependent on the number of studies available, and whether the key study was based on humans (low uncertainty) or small mammals (high uncertainty) in the case of the human health effects assessment. When few studies are available, several types of safety factors must be applied to account for this uncertainty (e.g., factors for inter- and intraspecies sensitivity). For the TRVs selected for the assessment, high uncertainty factors were applied (see Appendix B for details)	Overestimate
Silica risks were estimated based on concentrations of PM_{10} (particulate matter with <10 µm); however, the respirable fraction of silica is ≤ 4 µm.	Overestimate

CAC = criteria air contaminants; COPC = contaminant of potential concern; HHERA = human health and ecological risk assessment; HHRA = human health risk assessment; LOAEL = lowest observed adverse effect level; NOAEL = no observed adverse effect level; RFD = reasonably foreseeable development; RSA = regional study area; TMF = tailings management facility; TRV = toxicity reference value.

Table 31: Uncertainties in the Multi-Pathway Assessment

Source of Uncertainty	Overestimate/ Underestimate/ Neutral?
Baseline Concentrations	
The baseline sample data for COPCs were based on measured concentrations in soil, vegetation (i.e., berries and Labrador tea), surface water (i.e., Duley Lake), fish (i.e., lake trout and northern pike) and game (i.e., grouse, mallard, moose, and snowshoe hare). A 95UCLM was selected for human exposures and a 95th percentile for wild game exposures when sufficient data (e.g., ≥10 samples) were available and a maximum concentration was used when sample size was insufficient (e.g., <10) or datasets with higher percentage of non-detected values (e.g., >80%). Except for the garden produce exposure pathway, the multi-pathway assessment has modelled Base Case exposures based on measured data, which dramatically reduces uncertainty.	Neutral
Predicted Concentrations	
The multi-pathway assessment predicted concentrations for the following environmental media: ▪ Dust deposition modelling was used to predict increases in soil concentrations and increases in vegetation concentrations via root uptake and deposition. The maximum deposition rates across the LSA were considered for wild game exposure and the maximum concentration at the applicable receptor locations were considered for human exposures. The predicted soil concentrations from dust deposition assumed that COPC losses from soil (i.e., chemical degradation, soil erosion, run-off, leaching, volatilization) were negligible. Deposition rates used for the modelling is based on a worst-case emission scenario that is expected to overestimate the ground-level concentrations (Chapter 5 of the EIS; Champion 2025). ▪ Maximum annual average surface water concentrations were predicted at Duley Lake, Pike Lake, and Riordan Lake based on a WBWQM study that was calibrated against measured existing concentrations and conservatively modelled impacts from all Project phases (Lorax 2025). ▪ An ecological risk assessment wildlife exposure model was used to predict increases in game meat concentrations from predicted increases in soil, surface water, and wildlife dietary items (i.e., browse, terrestrial invertebrates, aquatic plants, and aquatic invertebrates). All wildlife were assumed to be exposed through ingestion to the maximum predicted concentrations in soil and surface water, and to predicted concentrations in dietary items based on bioaccumulation models from the literature and the maximum predictions in soil and surface water.	Overestimate
HHRA Assumptions	
The HHRA used the maximum predicted annual average of dust deposition rates for each receptor group (Cabin Resident, Urban Resident, Recreational/Land User and Commercial User locations).	Overestimate
The WBWQM provided predictions for each year of the Project phases and the HHRA assumed continuous lifetime exposure to the predicted highest annual average.	Overestimate
COPC bio-accessibility/bio-availability was conservatively assumed to be 100% for soil, surface water, and dietary pathways.	Overestimate
Country food consumption rates used in the assessment were specifically designed such that cabin residents derive a large portion of their food (i.e., fish, game and vegetation) and all their drinking water from the LSA year-round.	Overestimate
Methylmercury content in fish was assumed be 85% but can be substantially lower in fresh water fish (i.e., 66 ± 16%) (further details are provided in Appendix F).	Overestimate
The assessment assumed a conservative exposure term (i.e., ET = 12 months/12 months = 1) for all pathways of exposure (e.g., country food consumption, soil contact, drinking surface water, swimming).	Overestimate
For carcinogens (i.e., arsenic), the assessment assumed a lifetime of exposure (i.e., 80 years) to the predicted incremental concentrations associated with Operations, when in fact the Operations phase is only 26 years. This assumption affects exposure pathways linked to surface water (i.e., surface water ingestion and fish consumption) where arsenic concentrations return to baseline conditions in Post-closure.	Overestimate
Inorganic arsenic content in soil and food were conservatively assumed to be 100%, whereas literature-based estimates of inorganic arsenic as a percentage of total arsenic was considered for food (further details are provided in Appendix F).	Overestimate

Table 31: Uncertainties in the Multi-Pathway Assessment

Source of Uncertainty	Overestimate/ Underestimate/ Neutral?
TRVs were selected from acceptable or reputable agencies (i.e., Health Canada and/or US EPA) that are designed to protect sensitive and susceptible individuals in the general population (i.e., infants and young children, the elderly, and people with compromised health. Often TRVs are based on no observed adverse effect levels (NOAELs) or the most sensitive endpoint and divided by safety factors to account for differences in individual sensitivity, uncertainty with the toxicological dataset and type of test species (i.e., animal or human). For methylmercury, the assessment calculated risk estimates based on the TRV derived for protection of toddlers, children and the fetus (i.e., child-bearing women); however; there is a TRV specific for the general population that is 2.5 times higher.	Overestimate

COPC = contaminant of potential concern; ET = exposure term; 95UCLM = 95th Upper Confidence Limit on the Mean; US EPA = United States Environmental Protection Agency; TRV = toxicity reference value; WBWQM = water balance and water quality model (WBWQM); LSA = local study area; TRV= toxicity reference value; NOAEL = no observed adverse effect level.

9.0 CONCLUSIONS

The HHRA was based upon predicted changes to air quality and water quality as a result of the Project, which were modelled by other disciplines. Health risks were assessed for human receptors at sensitive areas (receptor locations) throughout the LSA (i.e., residents, hospitals, schools, cabins and recreational/land use areas) by comparing health risks associated with the predicted Project-related changes to the environment to the existing (or baseline) environment. The HHRA was completed as two assessments: inhalation assessment and multi-pathway assessment, the results of which are summarized below.

For the assessment of inhalation exposures, predicted changes to air quality during the Operations phase of the Project were modelled by the air quality discipline for 1-hour, 24-hour, and annual averaging periods. Comparison of the maximum predicted air concentrations to health-based criteria indicated that most chemicals met their respective criteria or acceptable risk estimates except for the following:

- nitrogen dioxide, aluminum, manganese, crystalline silica for the 1-hour averaging period;
- $PM_{2.5}$, aluminum and manganese for the 24-hour averaging period; and
- nitrogen dioxide, manganese, crystalline silica, and DPM for the annual averaging period.

Overall, potential health risks were negligible in consideration of:

- the low likelihood of people being present at the exact location and exact time of the predicted exceedances of the acute (1-hour and 24-hour) health-based exposure limits;
- the average (rather than 95th percentile) concentrations of metals and metalloids, as it is unlikely that people will be continuously exposed to upper limit concentrations over the duration of the Project (initial risk estimates applied the 95th percentile concentration of metals and metalloids in ore rock to be mined, consistent with the air quality chapter of the EIS, but this is an overly conservative assumption that overestimates the potential exposure concentrations to receptors);
- the intermittent presence of people at recreational land use areas close to the Project where predicted concentrations were the highest;

- the concentration of toxicologically relevant respirable fraction of metals and metalloids associated with particulate matter that can enter the respiratory tract; and
- the conservative assumptions underlying the predicted air concentrations (outlined in Section 8.0) resulting in overestimated potential exposures.

For the multi-pathway assessment, predicted changes to soil quality (i.e., due to aerial deposition of dust) and water quality (i.e., due to effluent discharge) were modelled by the air quality and water quality disciplines. Predicted changes to country food concentrations (e.g., berries, wild game, and fish) were also modelled based on the changes to soil and air quality or water quality. Comparison of the predicted concentrations to health-based criteria or comparison of estimated exposure doses from all potential exposure pathways to toxicological thresholds indicated that all chemicals met their respective criteria and/or were associated with acceptable risk estimates.

The conclusions of the HHRA were consistent with those of the HHRA prepared by Alderon (2012). The Alderon HHRA concluded that no adverse effects upon the physical health of humans within the LSA were expected during any phase of the Project.

Although negligible health risks were identified in the HHRA, air and water monitoring , as outlined in the EEMP (Annex 5E of the EIS) is recommended to confirm the predictions considered in the HHRA and verify if future air and water concentrations reflect predicted concentrations and therefore, by extension, predicted health risks.

Signature Page

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APPENDIX A

Baseline Data and Bioaccumulation Factors

1.0 EXISTING CONDITION ENVIRONMENTAL DATA

Baseline data collected from several studies conducted in the local study area (LSA) were used to describe the existing environmental conditions for the Project. The LSA consists of the area where measurable changes to valued ecosystem components resulting from the proposed activities may be anticipated. Baseline data from within Site Assessment Area (SAA; area representing the Project footprint and maximum area of Project disturbance) were not included as assessment of the SAA is outside the scope of the human health risk assessment (HHRA). The original reports prepared by WSP for baseline studies provide details on sampling methodology, analysis methods and laboratory certificates of analysis. Where site-specific data were not available, literature sources for the region were considered. This appendix summarizes the baseline chemistry data compiled in support of the HHRA. Site-specific and literature-based bioaccumulation factors (BAFs) used to predict plant and fish tissue concentrations for Base Case (i.e., existing conditions) and future Project Case are also outlined in this appendix.

1.1 Air

Measured concentrations at the Hudson Drive station in Labrador City were evaluated to establish appropriate baseline concentrations. The Government of Newfoundland and Labrador, Department of Environment and Climate Change (ECC) recommended that the annual average of each contaminant could be used to represent the baseline concentration for all averaging periods of that contaminant. The monitors in Western Labrador do not measure carbon monoxide, therefore, measurements from a National Air Pollution Surveillance Program (NAPS) station in Newfoundland were used. The 2022 1-hour maximum carbon monoxide measurement from St. John's was conservatively chosen to represent background concentration for the Project. Further details are provided in Chapter 5 – Air Quality and Climate of the Environmental Impact Statement.

The baseline air concentrations are presented in Attachment A1 (Table 1-1).

1.2 Soil

Baseline metal concentrations in soil were established as part of the baseline soil and country foods sampling program conducted by WSP in August 2024 (WSP 2024). Soil samples (co-located with vegetation samples) were collected at 11 locations within the LSA, but outside of the SAA, and were analyzed for metals. The sampling locations and analytical data are presented in the Baseline Soil and Country Foods Sampling Program report (WSP 2024; Figure 1 and Appendix B, respectively). These data were used to calculate a 95th upper confidence limit of the mean (95UCLM) baseline concentration for metals using the process described in Section 1.7.

Summary statistics of the baseline soil quality data are presented in Attachment A1 (Table 1-2). The ProUCL outputs for the soil data are provided in Attachment A2.

1.3 Surface Water

A baseline monitoring program was conducted by WSP in 2023 and 2024 to characterize the existing surface water in the watersheds within the LSA, immediately downstream of the Project (WSP 2025). Sampling was carried out in June, August and October 2023 and March, June, August and October 2024. The sampling locations and analytical data are presented in the 2024 Surface Water Surface Water Baseline Report (WSP 2025; Figure 3-1 and Appendix E, respectively). The HHRA focussed on lakes receiving direct discharge of effluent (i.e., Duley Lake) and those most influenced by site water management and relevant for human use (i.e., Pike Lake and Riordan Lake). In the HHRA model, exposure to surface water from Duley Lake was considered as a worst case due given it is the receiving waterbody of effluent discharge. The surface water quality

from 15 to 31 samples from the stations sampled in Duley Lake (i.e., LL-02, LL-03, LL-04, LL-05) was used to represent baseline conditions. The baseline surface water dataset used in the HHRA is consistent with the baseline dataset used in the water quality model to predict future water quality for the Project (Lorax 2025). For consistency with the water quality model, the HHRA used mean concentrations to represent baseline conditions.

Summary statistics of the baseline surface water data are presented in Attachment A1 (Table 1-3).

1.4 Berries and Labrador Tea

A baseline soil and country food sampling program was conducted by WSP in 2024, which included co-located soil and vegetation sampling and analysis (WSP 2024).The sampling program included the collection of vegetation samples of interest (*i.e.,* blueberries *[Vaccinium angustifolium and/or V. boreale],* cranberries *[V. vitisidaea],* and Labrador tea *[Rhododendron groenlandicum]*), co-located with soil samples, while taking spatial distribution into account. Vegetation samples of interest were identified based on their importance as food for human consumption (*e.g.,* berries and Labrador tea) based on local knowledge and Alderon (2012). Vegetation samples were collected at 12 locations within the LSA for berries (*i.e.,* blueberries and cranberries) and 11 locations for Labrador tea. The sampling locations and the analytical data are presented in the Baseline Soil and Country Foods Sampling Program report (WSP 2024; Figure 1 and Appendix B, respectively). These data were used to calculate a 95UCLM baseline concentration for metals for each vegetation type. Due to the limited number of samples of each berry species, all berry sample data were pooled to establish baseline concentrations.

Summary statistics of the baseline berry and Labrador tea quality data are presented in Attachment A1 (Table 1-4 and 1-5), respectively. The ProUCL outputs for the berry and Labrador tea data are provided in Attachment A2.

Baseline berry and Labrador tea quality data were used to develop site-specific BAFs used to predict tissue concentrations for Base Case (i.e., existing conditions) and future Project Case, as described in Section 2.0.

1.5 Fish Tissue

A baseline soil country food sampling program was conducted in 2024, which included fish sampling and analysis (WSP 2024). The fish tissue sampling included the collection of fish samples from Duley Lake where the Project has the greatest potential to have effects on water quality (Alderon 2012). The species of fish desired for sampling were identified based on their importance as food for human consumption, supported by local knowledge and Alderon (2012), and considering availability in Duley Lake. Desired species included brook trout *(Salvelinus fontinalis),* ouananiche (*i.e.,* landlocked Atlantic salmon *[Salmo salar]*), lake trout *(Salvelinus namaycush)* and northern pike (*Esox Lucius*). The sampling locations and the analytical data are presented in the Baseline Soil and Country Foods Sampling Program report (WSP 2024; Figure 1 and Appendix B, respectively). A total of 12 lake trout and one northern pike were collected and muscle tissue was submitted for analysis of total metals, methylmercury and moisture content. Due to the limited number of northern pike samples and the similarity in tissue concentrations between species, all data were pooled to establish baseline fish tissue concentrations. These data were used to calculate a 95UCLM baseline concentration for metals.

Summary statistics of the baseline fish tissue quality data are presented in Attachment A1 (Table 1-6). Baseline fish tissue quality data were used to develop site-specific BAFs used to predict tissue concentrations for Base Case (i.e., existing conditions) and future Project Case, as described in Section 2.0.

1.6 Wild Game

Measured wild game concentrations from the LSA were not available, therefore literature sources were considered to establish baseline concentrations for the Project. The wild game concentrations were obtained from the Comprehensive Technical Report – Supplemental Data from the First Nations Food, Nutrition, and Environment Study (FNFNES) conducted for Quebec and Labrador (Chan et al. 2021). The FNFNES is aimed at gathering information on the food consumed by various Indigenous groups across Canada and provides a comprehensive compilation of country foods consumed by Indigenous people. Chan et al. (2019) completed a food survey on 10 Indigenous communities throughout Quebec and Labrador in fall 2016. The survey results and food concentrations are presented by ecozone: Taiga Shield, Hudson Plains, Boreal Shield, Mixedwood Plains and Atlantic Maritime.

The Project is within the Boreal Shield ecozone, however it borders the Taiga Shield ecozone which better overlaps with the traditional lands of the five Indigenous groups identified as potential Rightsholders (Alderon 2012). As such, the measured food concentrations for the Taiga Shield ecozone were used as a source of wild game concentrations.

Composite food samples were collected, consisting of 1-5 pooled samples from each community, and analysed for metals and moisture content (Chan et al. 2021). Concentrations in Attachment A1 (Table 1-7) represent the mean concentrations of the number of pooled samples or communities.

The measured game concentrations were used to derive site-specific biotransfer factors (BTFs) as described in Appendix F.

Measured concentrations were not available for beryllium and barium. In addition, measured concentrations of lead in wild game can be impacted from ammunition (i.e., lead shot). Chan et al. (2019) stated that elevated levels of lead were found in the meat of a wide range of animal species including grouse, deer, bison, muskrat and squirrel and that lead contamination is likely due to residuals from lead-containing ammunition. A comparison of the wild game lead concentrations measured in caribou, hare, moose and mallard were 16 to 130 times lower (i.e., 0.01 to 0.08 mg/kg-wet weight) than the lead concentration measured in grouse (i.e., 1.3 mg/kg-wet weight) for the Taiga Shield ecozone. Therefore, literature-based BTFs from US EPA (2005) were considered for beryllium, barium and lead.

1.7 Selection Process for Exposure Point Concentrations

Summary statistics, such as the 95UCLM, mean or maximum measured concentration, were used to characterize the baseline concentrations of contaminants of potential concern (COPCs) in each environmental media for the LSA. For berries, Labrador tea and fish tissue, baseline concentrations were used to develop site-specific BAFs used to predict tissue concentrations for Base Case (i.e., existing conditions) and future Base + Project Case, as described in Section 2.0.

A 95UCLM was selected when sufficient data (e.g., ≥10 samples) were available for its calculation. The 95UCLM was calculated using US EPA's ProUCL Software, Version 5.2 (US EPA 2022). For samples with a field duplicate, the higher concentration from the duplicate pair was selected. The datasets included both detected and non-detected concentrations. Non-detected concentrations were indicated in the ProUCL input and were entered as the full detection limit. In datasets with a higher proportion of non-detected values, there may be higher uncertainty associated with the calculation of the 95UCLM. As such, a 95UCLM was not calculated for datasets with higher percentage of non-detected values (e.g., >80%) and a maximum concentration was used instead. A

summary of the selected exposure point concentration (EPC) for each environmental media is provided in Table 1. The selected EPCs for each environmental media considered in the ecological model (i.e., model for tissue concentrations of wild game consumed by human receptors) are provided in Table 2.

Table 1: Summary of Selected Exposure Point Concentrations Used in HHRA Model

Environmental Media	Human Health Selected Exposure Point Concentration	Rationale
Air	Annual mean	Annual mean concentration from Labrador City (a station associated with the National Air Pollution Surveillance Program) was used for consistency with air quality model used to predict future air concentrations.
Soil	95UCLM	Sufficient number of sample locations (>10) and detected values (>80%); otherwise, a maximum was used.
Surface Water	Mean (Duley Lake)	Sample size was 15 to 31. Mean concentrations in Duley Lake were used for consistency with water quality model used to predict future surface water concentrations.
Environmental Media	**Exposure Concentration used for BAFs/BTFs**	**Rationale**
Berries and Labrador Tea	95UCLM (used for site-specific BAF)	Sufficient number of sample locations (>10) and detected values (>80%); otherwise, a maximum was used.
Fish Tissue	95UCLM (used for site-specific BAF)	Sufficient number of sample locations (>10) and detected values (>80%); otherwise, a maximum was used.
Wild Game	Mean (used for site-specific BTF; see Appendix F)	In the absence of site-specific data, literature sources were used. Sample size was 1-5 based on regional studies (i.e., Chan et al. 2021) and mean concentrations were the only statistic provided.

Table 2. Summary of Selected Exposure Point Concentrations used in Ecological Model

Environmental Media	Ecological Selected Exposure Point Concentration	Rationale
Soil	95UCLM	Sufficient number of sample locations (>10) and detected values (>80%); otherwise, a maximum was used
Surface Water	Maximum mean	Maximum mean across all surface water bodies evaluated in the HHRA (i.e., Duley Lake, Duley Lake Outlet, Pike Lake, and Riordan Lake). Assumed wildlife could access all surface water bodies in the LSA.

2.0 BIOACCUMULATION FACTORS

Site-specific BAFs were used to predict tissue concentrations in traditional plants (e.g., Labrador tea), berries and fish. Use of site-specific BAFs is preferable to literature-based values, as the latter generally do not account for factors that would affect the bioavailability of substances in a site-specific manner. A BAF is the ratio of the concentration of a chemical in an organism (i.e., Labrador tea, berries or fish) to the concentration in the surrounding media (i.e., soil or surface water). Using the EPCs described in Section 1.7, site-specific BAFs were estimated using the Labrador tea, berry or fish tissue and the soil or surface water data collected during baseline studies for the Project using the equations below:

$$BAF(plants) = \frac{C_p}{C_s}$$

Where:
BAF (plants) = site-specific bioaccumulation factor (kg soil/kg biota)
C_p = concentration in plant tissue (mg/kg wet weight)
C_s = concentration in soil (mg/kg)

$$BAF(fish) = \frac{C_f}{C_{sw}}$$

Where:
BAF (fish) = site-specific bioaccumulation factor (L water/kg biota)
C_f = concentration in fish tissue (mg/kg)
C_{sw} = concentration in surface water (mg/L)

Where the site-specific BAFs was estimated using an EPC for either the tissue or source media that was based on a detection limit, there is a higher degree of uncertainty and the BAF may overestimate the uptake into plant or fish tissue. In these cases, a literature-based BAF was considered if it was lower than the BAF estimated based on detection limits. BAFs from the literature were compiled from the USEPA (2005) Human Health Risk Assessment Protocol (HHRAP) Companion Database.

A summary of the selected EPCs, site-specific BAFs and literature BAFs is presented in Table 1-8.

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ATTACHMENT A1

Summary of Baseline Data Set

Table 1-1: Summary of Baseline Air Quality Concentrations

Contaminant	Unit	Averaging Period	Background	Comment
SO_2	µg/m^3	Annual	0.79	Background annual average concentration measured at the Hudson Drive Firehall station in Labrador City.
		1-hr		
		3-hr		
		24-hr		
$PM_{2.5}$	µg/m^3	Annual	3.6	Background annual average concentration measured at the Hudson Drive Firehall station in Labrador City.
		24-hr		
PM_{10}	µg/m^3	Annual	11.3	Background annual average concentration measured at the Hudson Drive Firehall station in Labrador City.
		24-hr		
NO_2	µg/m^3	Annual	4.9	Background annual average concentration measured at the Hudson Drive Firehall station in Labrador City.
		1-hr		
		24-hr		
CO	µg/m^3	1-hr	1495	Background concentration is not available at Labrador City station, so value from St. John's was used.
		8-hr		

Notes:

µg/g = micrograms per gram; SO_2 = sulphur dioxide; $PM_{2.5}$ = particulate matter less than 2.5 micrometers; PM_{10} = particulate matter less than 10 micrometers; TPM = total particulate matter; NO_2 = nitrogen dioxide; CO = carbon monoxide; hr = hour.

Table 1-2: Summary Statistics of Baseline Soil Quality Concentrations

Parameters	Units	RDL	Minimum	Maximum	Mean[(a)]	95% UCLM[(b)]	95th Percentile[(a)]	90th Percentile[(a)]	75th Percentile[(a)]	Sample Count	Non-Detect Count	Percent Non-Detect
Total Organic Carbon	mg/kg	500	4800	25000	12618	16307	23500	22000	16500	11	0	0%
Available (CaCl2) pH	pH	NV	3.03	5.3	4.1	4.442	5.0	4.7	4.5	11	0	0%
Aluminum	µg/g	50	990	17000	5990	8686	14000	11000	8700	11	0	0%
Antimony	µg/g	0.20	<0.2	<0.2	0.2	n/a	0.2	0.2	0.2	11	11	100%
Arsenic	µg/g	1.0	<1	2.4	1.3	1.555	2.2	1.9	1.4	11	7	64%
Barium	µg/g	0.50	6.4	200	36	79.22	122	44	35	11	0	0%
Beryllium	µg/g	0.20	<0.2	0.29	0.21	n/a	0.25	0.20	0.20	11	9	82%
Bismuth	µg/g	1.0	<1	<1	1	n/a	1	1	1	11	11	100%
Boron (Total)	µg/g	5.0	<5	<5	5	n/a	5	5	5	11	11	100%
Cadmium	µg/g	0.10	<0.1	<0.1	0.1	n/a	0.1	0.1	0.1	11	11	100%
Calcium	µg/g	50	79	2000	766	1132	1800	1600	1350	11	0	0%
Chromium	µg/g	1.0	2.4	97	25	50.97	71	44	29	11	0	0%
Cobalt	µg/g	0.10	0.92	14	4.3	6.574	12	10.0	5.1	11	0	0%
Copper	µg/g	0.50	<0.5	9.4	3.7	5.172	8.2	7.0	4.5	11	1	9%
Iron	µg/g	50	11000	89000	38455	51260	80500	72000	45000	11	0	0%
Lead	µg/g	1.0	1.4	9.4	4.2	5.426	7.8	6.1	5.1	11	0	0%
Magnesium	µg/g	50	140	13000	2560	4600	8850	4700	2650	11	0	0%
Manganese	µg/g	1.0	32	1600	428	1020	1500	1400	430	11	0	0%
Mercury	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	11	11	100%
Molybdenum	µg/g	0.50	<0.5	1.1	0.64	0.753	0.9	0.79	0.73	11	6	55%
Nickel	µg/g	0.50	0.56	48	9.6	21.88	33	18	8.1	11	0	0%
Phosphorus	µg/g	50	110	1700	508	764.3	1230	760	710	11	0	0%
Potassium	µg/g	200	<200	2700	581	1003	1800	900	560	11	5	45%
Selenium	µg/g	0.50	<0.5	<0.5	0.5	n/a	0.5	0.5	0.5	11	11	100%
Silver	µg/g	0.20	<0.2	<0.2	0.2	n/a	0.2	0.2	0.2	11	11	100%
Sodium	µg/g	50	<50	170	61	n/a	110	50	50	11	10	91%
Strontium	µg/g	1.0	1.2	16	6.8	9.002	13	10.0	8.3	11	0	0%
Thallium	µg/g	0.05	<0.05	0.12	0.062	0.0747	0.10	0.08	0.063	11	7	64%
Tin	µg/g	1.0	<1	<1	1	n/a	1	1	1	11	11	100%
Uranium	µg/g	0.05	0.15	0.39	0.25	0.3	0.39	0.39	0.30	11	0	0%
Vanadium	µg/g	5.0	5.7	41	25	30.9	38	35	34	11	0	0%
Zinc	µg/g	5.0	<5	43	15	21.36	37	30	18	11	2	18%

Notes:

µg/g = microgram per gram; mg/kg = milligram per kilogram; RDL = reported detection limit; UCLM = upper confidendence limit of the mean; "<" = less than detection limit; CaCl2 = calcium chloride; NV = no value.

(a) Statistics were calculated considering a non-detected value was equal to the full RDL.

(b) If the dataset contained an insufficient number of samples (i.e., <10) or a high percentage of non-detect concentrations (i.e., >80%), a 95% UCLM was not considered reliable and a value of "n/a" was assigned.

Table 1-3: Summary Statistics of Baseline Surface Water Quality Concentrations

Parameter	Units	Duley Lake							
		Minimum [a]	Maximum [a]	Mean [a]	90th Percentile [a]	75th Percentile [a]	Sample Count	Number Non-Detect	Percent Non-Detect
Inorganics and Nutrients									
TDS	mg/L	20	95	51.7	63.8	56	27	0	0%
Chloride	mg/L	0.5	0.5	0.5	0.5	0.5	27	27	100%
Fluoride	mg/L	0.05	0.05	0.05	0.05	0.05	27	27	100%
Nitrate_N	mg/L as N	0.025	0.36	0.07	0.14	0.05	26	22	85%
Nitrite_N	mg/L as N	0.005	0.005	0.005	0.01	0.01	26	26	100%
Ammonia_N	mg/L	0.025	0.25	0.0436	0.08	0.03	27	21	78%
Alkalinity_as_CaCO3	mg/L as CaCO3	28	49	36.1	39	38	31	0	0%
Acidity_as_CaCO3	mg/L as CaCO3	2.5	11	2.93	2.5	2.5	30	28	93%
Sulphate	mg/L	2.3	13	3.9	4.86	3.7	27	0	0%
Dissolved Metals									
Mercury	mg/L	0.000005	0.00005	0.0000364	0.00005	0.00005	29	29	100%
Silver	mg/L	0.0000025	0.000045	0.0000248	0.000045	0.000045	31	31	100%
Aluminum	mg/L	0.0015	0.0179	0.00718	0.0102	0.0091	31	2	6%
Arsenic	mg/L	0.00005	0.0005	0.000255	0.0005	0.0005	31	27	87%
Barium	mg/L	0.0091	0.0135	0.0106	0.012	0.01095	31	0	0%
Beryllium	mg/L	0.000005	0.0002	0.000112	0.0002	0.0002	31	31	100%
Boron	mg/L	0.005	0.025	0.0134	0.025	0.025	31	31	100%
Bismuth	mg/L	0.0000025	0.0005	0.000436	0.0005	0.0005	31	31	100%
Calcium	mg/L	7.48	12	8.57	9.2	9.025	31	0	0%
Cadmium	mg/L	0.0000025	0.000045	0.0000227	0.000045	0.000045	31	31	100%
Cobalt	mg/L	0.0000063	0.00025	0.000156	0.00025	0.00025	31	27	87%
Chromium	mg/L	0.00018	0.0025	0.00136	0.0025	0.0025	31	27	87%
Copper	mg/L	0.0001	0.00287	0.000772	0.0014	0.00115	31	9	29%
Iron	mg/L	0.0057	0.0638	0.0315	0.05	0.05	31	14	45%
Potassium	mg/L	0.812	1.1	0.924	1	0.986	31	0	0%
Lithium	mg/L	0.00025	0.0025	0.00158	0.0025	0.0025	31	31	100%
Magnesium	mg/L	3	5.2	3.75	4.09	4	31	0	0%
Manganese	mg/L	0.000296	0.01	0.00156	0.0037	0.001	31	22	71%
Molybdenum	mg/L	0.00025	0.00063	0.000387	0.0005	0.0005	31	26	84%
Sodium	mg/L	0.464	0.7	0.548	0.62	0.591	31	0	0%
Nickel	mg/L	0.000165	0.0005	0.000461	0.0005	0.0005	31	27	87%
Phosphorus	mg/L	0.0027	0.05	0.0397	0.05	0.05	18	14	78%
Lead	mg/L	0.0000079	0.00025	0.000156	0.00025	0.00025	31	27	87%
Antimony	mg/L	0.00001	0.00025	0.000219	0.00025	0.00025	31	31	100%
Selenium	mg/L	0.00002	0.001	0.000471	0.001	0.001	31	31	100%
Silicon	mg/L	1.4	3	1.65	1.9	1.68	31	0	0%
Tin	mg/L	0.0001	0.0025	0.00129	0.0025	0.0025	31	31	100%
Strontium	mg/L	0.0116	0.018	0.0132	0.0146	0.01385	31	0	0%
Titanium	mg/L	0.00025	0.0025	0.00221	0.0025	0.0025	31	31	100%
Thallium	mg/L	0.000001	0.000025	0.0000136	0.000025	0.000025	31	28	90%
Uranium	mg/L	0.000005	0.00015	0.0000885	0.00012	0.00011	31	11	35%
Vanadium	mg/L	0.0001	0.0025	0.00117	0.0025	0.0025	31	31	100%
Tungsten	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	15	15	100%
Yttrium	mg/L	0.001	0.001	0.001	0.001	0.001	29	29	100%
Zinc	mg/L	0.0025	0.0063	0.00285	0.00359	0.0025	31	25	81%

Table 1-3: Summary Statistics of Baseline Surface Water Quality Concentrations

Parameter	Units	Duley Lake							
		Minimum [(a)]	Maximum [(a)]	Mean [(a)]	90th Percentile [(a)]	75th Percentile [(a)]	Sample Count	Number Non-Detect	Percent Non-Detect
Total Metals									
Mercury_Total	mg/L	0.000005	0.00005	0.0000364	0.00005	0.00005	29	29	100%
Silver_Total	mg/L	0.0000025	0.000045	0.0000248	0.000045	0.000045	31	31	100%
Aluminum_Total	mg/L	0.0075	0.0239	0.0132	0.02	0.0163	31	0	0%
Arsenic_Total	mg/L	0.000043	0.0005	0.000254	0.0005	0.0005	31	27	87%
Barium_Total	mg/L	0.0092	0.0127	0.0104	0.012	0.011	31	0	0%
Beryllium_Total	mg/L	0.000005	0.0002	0.000112	0.0002	0.0002	31	31	100%
Boron_Total	mg/L	0.005	0.025	0.0134	0.025	0.025	31	31	100%
Bismuth_Total	mg/L	0.0000025	0.0005	0.000436	0.0005	0.0005	31	31	100%
Calcium_Total	mg/L	7.21	12	8.34	8.8	8.64	31	0	0%
Cadmium_Total	mg/L	0.0000025	0.000045	0.0000227	0.000045	0.000045	31	31	100%
Cobalt_Total	mg/L	0.0000084	0.00025	0.000156	0.00025	0.00025	31	27	87%
Chromium_Total	mg/L	0.00017	0.0025	0.00136	0.0025	0.0025	31	27	87%
Copper_Total	mg/L	0.000229	0.00289	0.000465	0.00045	0.00045	31	25	81%
Iron_Total	mg/L	0.016	0.06	0.0395	0.05	0.05	31	14	45%
Potassium_Total	mg/L	0.808	0.98	0.883	0.96	0.9095	31	0	0%
Lithium_Total	mg/L	0.00025	0.0025	0.00158	0.0025	0.0025	31	31	100%
Magnesium_Total	mg/L	3.02	4.8	3.62	3.89	3.73	31	0	0%
Manganese_Total	mg/L	0.001	0.0298	0.0109	0.0183	0.013	31	3	10%
Molybdenum_Total	mg/L	0.00025	0.00057	0.000389	0.0005	0.0005	31	25	81%
Sodium_Total	mg/L	0.439	0.65	0.531	0.6	0.572	31	0	0%
Nickel_Total	mg/L	0.000171	0.0005	0.000462	0.0005	0.0005	31	27	87%
Phosphorus_Total	mg/L	0.0035	0.05	0.0177	0.05	0.01	18	14	78%
Lead_Total	mg/L	0.0000075	0.00113	0.000208	0.00025	0.00025	31	26	84%
Antimony_Total	mg/L	0.00001	0.00025	0.000219	0.00025	0.00025	31	31	100%
Selenium_Total	mg/L	0.00002	0.001	0.000471	0.001	0.001	31	31	100%
Silicon_Total	mg/L	1.3	2.9	1.61	1.76	1.7	31	0	0%
Tin_Total	mg/L	0.0001	0.0025	0.00129	0.0025	0.0025	31	31	100%
Strontium_Total	mg/L	0.0111	0.017	0.0129	0.014	0.0131	31	0	0%
Titanium_Total	mg/L	0.00025	0.0025	0.00221	0.0025	0.0025	31	31	100%
Thallium_Total	mg/L	0.0000022	0.000025	0.0000137	0.000025	0.000025	31	27	87%
Uranium_Total	mg/L	0.00005	0.00018	0.000105	0.00012	0.00012	31	5	16%
Vanadium_Total	mg/L	0.0001	0.0025	0.00117	0.0025	0.0025	31	31	100%
Tungsten_Total	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	23	23	100%
Yttrium_Total	mg/L	0.001	0.0016	0.00102	0.001	0.001	29	29	100%
Zinc_Total	mg/L	0.00087	0.0069	0.00263	0.0025	0.0025	31	26	84%

Notes:

mg/L = milligram per litre; mg/L as N = milligram per litre as nitrogen; CaCO3 = calcium carbonate;

(a) Statistics were calculated considering a non-detected value was equal to the half detection limit, consistent with the water quality model.

Table 1-4: Summary Statistics of Baseline Plant Tissue Quality Concentrations - Berries

Parameters	Units	RDL	Minimum	Maximum	Mean[(a)]	95% UCLM[(b)]	95th Percentile[(a)]	90th Percentile[(a)]	75th Percentile[(a)]	Sample Count	Non-Detect Count	Percent Non-Detect
Moisture	g/100g	0.10	83	86	84	84.94	86	86	85	12	0	0%
Antimony	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	12	12	100%
Arsenic	µg/g	0.1	<0.1	<0.1	0.1	n/a	0.1	0.1	0.1	12	12	100%
Barium	µg/g	0.3	1.3	2.7	1.9	2.119	2.6	2.6	2.1	12	0	0%
Beryllium	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	12	12	100%
Bismuth	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	12	12	100%
Boron (Total)	µg/g	0.5	<0.5	0.9	0.6	0.669	0.79	0.70	0.63	12	2	17%
Cadmium	µg/g	0.01	<0.01	<0.01	0.01	n/a	0.01	0.01	0.01	12	12	100%
Calcium	µg/g	50	136	223	180	191	208	196	190	12	0	0%
Chromium	µg/g	0.3	<0.3	0.4	0.31	n/a	0.35	0.30	0.30	12	11	92%
Cobalt	µg/g	0.005	<0.005	0.011	0.0058	n/a	0.0094	0.0077	0.005	12	10	83%
Copper	µg/g	0.5	<0.5	7.6	1.3	2.302	4.0	1.1	0.83	12	1	8%
Iron	µg/g	3.0	5	35	17	23.47	33	32	30	12	0	0%
Lead	µg/g	0.03	<0.03	0.13	0.044	n/a	0.11	0.093	0.030	12	10	83%
Magnesium	µg/g	100	<100	<100	100	n/a	100	100	100	12	12	100%
Manganese	µg/g	2.0	23.8	123	66	83.27	116	110	95	12	0	0%
Mercury	µg/g	0.01	<0.01	<0.01	0.01	n/a	0.01	0.01	0.01	12	12	100%
Molybdenum	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	12	12	100%
Nickel	µg/g	0.05	<0.05	0.3	0.085	0.122	0.19	0.099	0.075	12	3	25%
Phosphorus	µg/g	50	98	167	127	139.5	163	159	149	12	0	0%
Potassium	µg/g	100	627	911	776	826.4	894	878	853	12	0	0%
Selenium	µg/g	0.04	<0.04	<0.04	0.04	n/a	0.04	0.04	0.04	12	12	100%
Silver	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	12	12	100%
Sodium	µg/g	50	<50	<50	50	n/a	50	50	50	12	12	100%
Strontium	µg/g	0.5	<0.5	1.3	0.58	0.725	0.97	0.68	0.50	12	9	75%
Thallium	µg/g	0.003	<0.003	<0.003	0.003	n/a	0.003	0.003	0.003	12	12	100%
Tin	µg/g	0.3	<0.3	<0.3	0.3	n/a	0.3	0.3	0.3	12	12	100%
Titanium	µg/g	0.5	<0.5	0.6	0.51	n/a	0.55	0.50	0.50	12	11	92%
Uranium	µg/g	0.005	<0.005	<0.005	0.005	n/a	0.005	0.005	0.005	12	12	100%
Vanadium	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	12	12	100%
Zinc	µg/g	2.0	<2	3	2.1	n/a	2.5	2	2	12	11	92%

Notes:

µg/g = micrograms per gram; g/100g = grams per 100 grams; RDL = reported detection limit; "<" = less than detection limit; n/a = not applicable

(a) Statistics were calculated considering a non-detected value was equal to the full RDL.

(b) If the dataset contained an insufficient number of samples (i.e., <10) or a high percentage of non-detect concentrations (i.e., >80%), a 95% UCLM was not considered reliable and a value of "n/a" was assigned.

Table 1-5: Summary Statistics of Baseline Plant Tissue Quality Concentrations - Labrador Tea

Parameters	Units	RDL	Minimum	Maximum	Mean[(a)]	95% UCLM[(b)]	95th Percentile[(a)]	90th Percentile[(a)]	75th Percentile[(a)]	Sample Count	Non-detect Count	Percent non-detect
Moisture	g/100g	0.10	48	54	50	51.11	53	52	51	11	0	0%
Antimony	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	11	11	100%
Arsenic	µg/g	0.1	<0.1	<0.1	0.1	n/a	0.1	0.1	0.1	11	11	100%
Barium	µg/g	0.3	34.8	44.9	40	42.31	44	44	43	11	0	0%
Beryllium	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	11	11	100%
Bismuth	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	11	11	100%
Boron (Total)	µg/g	0.5	2.7	7.5	5.0	5.768	7.0	6.5	5.8	11	0	0%
Cadmium	µg/g	0.01	<0.01	<0.01	0.01	n/a	0.01	0.01	0.01	11	11	100%
Calcium	µg/g	50	2470	3110	2676	2795	3015	2920	2835	11	0	0%
Chromium	µg/g	0.3	<0.3	0.4	0.32	0.344	0.4	0.4	0.3	11	8	73%
Cobalt	µg/g	0.005	0.017	0.046	0.026	0.0306	0.041	0.035	0.028	11	0	0%
Copper	µg/g	0.5	1.4	1.8	1.6	1.653	1.8	1.7	1.7	11	0	0%
Iron	µg/g	3.0	87	346	178	224.8	338	329	198	11	0	0%
Lead	µg/g	0.03	<0.03	0.08	0.035	n/a	0.055	0.03	0.03	11	10	91%
Magnesium	µg/g	100	507	655	616	638.7	652	648	639	11	0	0%
Manganese	µg/g	2.0	434	708	582	630.1	693	678	646	11	0	0%
Mercury	µg/g	0.01	<0.01	<0.01	0.01	n/a	0.01	0.01	0.01	11	11	100%
Molybdenum	µg/g	0.05	<0.05	0.07	0.052	n/a	0.06	0.05	0.05	11	10	91%
Nickel	µg/g	0.05	0.23	0.67	0.37	0.449	0.635	0.6	0.38	11	0	0%
Phosphorus	µg/g	50	560	726	657	686.3	720	713	699	11	0	0%
Potassium	µg/g	100	1830	2400	2142	2236	2380	2360	2230	11	0	0%
Selenium	µg/g	0.04	<0.04	<0.04	0.04	n/a	0.04	0.04	0.04	11	11	100%
Silver	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	11	11	100%
Sodium	µg/g	50	<50	<50	50	n/a	50	50	50	11	11	100%
Strontium	µg/g	0.5	2.3	17.2	7.0	9.387	15	12	8.2	11	0	0%
Thallium	µg/g	0.003	<0.003	0.058	0.017	0.0277	0.053	0.048	0.023	11	4	36%
Tin	µg/g	0.3	<0.3	<0.3	0.3	n/a	0.3	0.3	0.3	11	11	100%
Titanium	µg/g	0.5	1.2	2.6	1.8	2.013	2.4	2.2	2.0	11	0	0%
Uranium	µg/g	0.005	<0.005	0.006	0.0051	n/a	0.0055	0.005	0.005	11	10	91%
Vanadium	µg/g	0.05	<0.05	0.1	0.062	0.0699	0.085	0.070	0.065	11	2	18%
Zinc	µg/g	2.0	9	10	9.6	9.912	10	10	10	11	0	0%

Notes:

µg/g = micrograms per gram; g/100g = grams per 100 grams; RDL = reported detection limit; "<" = less than detection limit.

(a) Statistics were calculated considering a non-detected value was equal to the full RDL.

(b) If the dataset contained an insufficient number of samples (i.e., <10) or a high percentage of non-detect concentrations (i.e., >80%), a 95% UCLM was not considered reliable and a value of "n/a" was assigned.

Table 1-6: Summary Statistics of Baseline Fish Tissue Quality Concentrations

Parameters	Units	RDL	Minimum	Maximum	Mean[(a)]	95% UCLM[(b)]	95th Percentile[(a)]	90th Percentile[(a)]	75th Percentile[(a)]	Sample Count	Non-detect Count	Percent non-detect
Moisture	g/100g	0.10	73	77	75	75.92	77	77	76	13	0	0%
Antimony	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	13	13	100%
Arsenic	µg/g	0.1	<0.1	<0.1	0.1	n/a	0.1	0.1	0.1	13	13	100%
Barium	µg/g	0.3	<0.3	<0.3	0.3	n/a	0.3	0.3	0.3	13	13	100%
Beryllium	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	13	13	100%
Bismuth	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	13	13	100%
Boron	µg/g	0.5	<0.5	<0.5	0.5	n/a	0.5	0.5	0.5	13	13	100%
Cadmium	µg/g	0.01	<0.01	<0.01	0.01	n/a	0.01	0.01	0.01	13	13	100%
Calcium	µg/g	50	54	1500	438	676.6	1440	1238	500	13	0	0%
Cesium	µg/g	0.005	0.027	0.058	0.040	0.044	0.053	0.049	0.043	13	0	0%
Chromium	µg/g	0.3	<0.3	<0.3	0.3	n/a	0.3	0.3	0.3	13	13	100%
Cobalt	µg/g	0.005	<0.005	<0.005	0.005	n/a	0.005	0.005	0.005	13	13	100%
Copper	µg/g	0.5	<0.5	0.6	0.51	n/a	0.54	0.5	0.5	13	12	92%
Iron	µg/g	3.0	<3	19	5.9	8.003	13	8.2	5	13	1	8%
Lead	µg/g	0.03	<0.03	<0.03	0.03	n/a	0.03	0.03	0.03	13	13	100%
Magnesium	µg/g	100	260	320	285	294.5	314	308	290	13	0	0%
Manganese	µg/g	0.3	<0.3	0.7	0.37	0.445	0.64	0.58	0.3	13	9	69%
Methyl Mercury	µg/g	0.001	<0.001	1.1	0.36	0.531	0.98	0.89	0.35	13	0	0%
Mercury	µg/g	0.005	0.09	0.96	0.31	0.571	0.86	0.79	0.28	13	0	0%
Molybdenum	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	13	13	100%
Nickel	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	13	13	100%
Phosphorus	µg/g	300	2300	3200	2615	2736	3080	2940	2700	13	0	0%
Potassium	µg/g	100	4100	4700	4415	4518	4700	4680	4600	13	0	0%
Selenium	µg/g	0.04	0.25	0.39	0.32	0.34	0.38	0.37	0.34	13	0	0%
Silver	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	13	13	100%
Sodium	µg/g	50	250	400	298	316.3	352	320	310	13	0	0%
Strontium	µg/g	0.5	<0.5	0.7	0.52	n/a	0.64	0.58	0.50	13	11	85%
Thallium	µg/g	0.003	0.003	0.01	0.0055	0.00633	0.0082	0.0068	0.0060	13	0	0%
Tin	µg/g	0.3	<0.3	<0.3	0.3	n/a	0.3	0.3	0.3	13	13	100%
Titanium	µg/g	0.5	1.2	1.7	1.4	1.447	1.6	1.6	1.4	13	0	0%
Uranium	µg/g	0.005	<0.005	0.007	0.0052	n/a	0.0064	0.0058	0.005	13	11	85%
Vanadium	µg/g	0.05	<0.05	<0.05	0.05	n/a	0.05	0.05	0.05	13	13	100%
Zinc	µg/g	2.0	3	6	4.1	4.503	5.4	5	4	13	0	0%

Notes:

µg/g = micrograms per gram; g/100g = grams per 100 grams; RDL = reported detection limit; "<" = less than detection limit.

(a) Statistics were calculated considering a non-detected value was equal to the full RDL.

(b) If the dataset contained an insufficient number of samples (i.e., <10) or a high percentage of non-detect concentrations (i.e., >80%), a 95% UCLM was not considered reliable and a value of "n/a" was assigned.

Table 1-7: Concentrations of Metals in Wild Game

Food Sample Name	Scientific Name	Number of Communities	Moisture	Metals Concentrations (µg/g wet weight)[a,b]									
				Chromium	Cobalt	Iron	Managanese	Molybdenum	Selenium	Arsenic	Lead	Mercury	Methyl Mercury
Caribou, meat	*Rangifer ssp.*	4	70.4	0.11	0.00623	42.9	0.38	0.002	0.2	0.01	0.04	0.01	0.01
Hare/rabbit, meat	*Lepus spp.*	3	71.7	0.13	0.01277	41.7	2.84	0.02	0.23	0.004	0.02	0.01	0.002
Moose, kidney	*Alces alces*	1	75.5	0.002	0.243	44	1.32	0.25	0.63	0.002	0.01	0.01	-
Moose, liver	*Alces alces*	1	54.2	0.002	0.115	175	1.42	0.66	0.16	0.005	0.08	0.004	-
Moose, meat	*Alces alces*	4	72.1	0.07	0.0108	34.8	0.43	0.01	0.15	0.003	0.03	0.01	0.005
Duck, mallard, meat	*Anas platyrhynchos*	2	56.9	0.06	0.04665	92.8	1.14	0.05	1.35	0.08	0.08	0.15	0.15
Grouse/ptarmigan, meat	*Falcipennis canadensis, Bonasa umbellus, Perdix perdix, Lagopus spp.*	6	70.1	0.11	0.00318	43.7	1.5	0.02	0.25	0.004	1.3	0.002	0.002

Notes:
µg/g = micrograms per gram
(a) Measured food sample concentrations from the First Nations Food, Nutrition & Environment Study, Comprehensive Technical Report - Supplemental Data, Taiga Shield Ecozone (Chan et al. 2021)
(b) 1-5 samples from each community were pooled and analysed. The data are mean concentrations of the number of pooled samples or communities

Table 1-8: Summary of Bioaccumulation Factors for Use in HHRA Modelling

Parameters	EPC					Site-Specific BAFs			Literature BAFs [b]		
	Soil	Traditional Plants	Berries	Fish	Surface Water[a]	Soil-Traditional Plants	Soil-Berries	Surface Water-Fish	Soil-Traditional Plants [c]	Soil-Berries [c]	Surface Water-Fish
	µg/g	µg/g ww	µg/g ww	µg/g ww	mg/L	kg-soil / kg-plant-ww	kg-soil / kg-plant-ww	L-water/kg-fish-ww	kg-soil / kg-plant-ww	kg-soil / kg-plant-ww	L-water/kg-fish-ww
Aluminum	8686	n/a	n/a	n/a	0.0132	n/a	n/a	n/a	n/a	n/a	n/a
Antimony	0.2	0.05	0.05	0.05	0.000219	0.250	0.250	228.311	**0.004147**	**0.007337**	**40**
Arsenic	1.555	0.1	0.1	0.1	0.000254	0.064	0.064	393.701	**0.0008229**	**0.0014559**	**114**
Barium	79.22	42.31	2.119	0.3	0.0104	0.534	0.027	**28.846**	**0.004186**	**0.007406**	633
Beryllium	0.29	0.05	0.05	0.05	0.000112	0.172	0.172	446.429	**0.0003354**	**0.0005934**	**62**
Bismuth	1	0.05	0.05	0.05	0.000436	**0.050**	**0.050**	**114.679**	n/a	n/a	n/a
Boron (Total)	5	5.768	0.669	0.5	0.0134	**1.154**	**0.134**	**37.313**	n/a	n/a	n/a
Cadmium	0.1	0.01	0.01	0.01	0.0000227	0.100	0.100	**440.529**	**0.01625**	**0.02875**	907
Calcium	1132	2795	191	676.6	8.34	**2.469**	**0.169**	**81.127**	n/a	n/a	n/a
Cesium	n/a	n/a	n/a	0.044	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chromium	50.97	0.344	0.4	0.3	0.00136	0.0067	0.008	220.588	**0.0006344**	**0.0011224**	**19**
Cobalt	6.574	0.0306	0.011	0.005	0.000156	**0.0047**	**0.002**	**32.051**	n/a	n/a	n/a
Copper	5.172	1.653	2.302	0.6	0.000465	**0.320**	**0.445**	**1290.323**	n/a	n/a	n/a
Iron	51260	224.8	23.47	8.003	0.0395	**0.0044**	**0.00046**	**202.608**	n/a	n/a	n/a
Lead	5.426	0.08	0.13	0.03	0.000208	0.015	0.024	144.231	**0.001768**	**0.003128**	**0.09**
Magnesium	4600	638.7	100	294.5	3.62	**0.139**	**0.022**	**81.354**	n/a	n/a	n/a
Manganese	1020	630.1	83.27	0.445	0.0109	**0.618**	**0.082**	**40.826**	n/a	n/a	n/a
Methyl Mercury	n/a	n/a	n/a	0.531	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Mercury	0.05	0.01	0.01	0.571	0.0000364	**0.200**	**0.200**	**15686.813**	n/a	n/a	n/a
Molybdenum	0.753	0.07	0.05	0.05	0.000389	**0.093**	**0.066**	**128.535**	n/a	n/a	n/a
Nickel	21.88	0.449	0.122	0.05	0.000462	0.021	0.006	108.225	**0.0012103**	**0.0021413**	**78**
Phosphorus	764.3	686.3	139.5	2736	0.0177	**0.898**	**0.183**	**154576.271**	n/a	n/a	n/a
Potassium	1003	2236	826.4	4518	0.883	**2.229**	**0.824**	**5116.648**	n/a	n/a	n/a
Selenium	0.5	0.04	0.04	0.34	0.000471	0.080	0.080	721.868	**0.002535**	**0.004485**	**129**
Silver	0.2	0.05	0.05	0.05	n/a	0.250	0.250	n/a	**0.01794**	**0.03174**	**87.7**
Sodium	170	50	50	316.3	0.531	**0.294**	**0.294**	**595.669**	n/a	n/a	n/a
Strontium	9.002	9.387	0.725	0.7	0.0129	**1.043**	**0.081**	**54.264**	n/a	n/a	n/a
Thallium	0.0747	0.0277	0.003	0.00633	0.0000137	0.371	0.040	**462.044**	**0.00011154**	**0.00019734**	10000
Tin	1	0.3	0.3	0.3	0.00129	**0.300**	**0.300**	**232.558**	n/a	n/a	n/a
Titanium	n/a	2.013	0.6	1.447	0.00221	n/a	n/a	**654.751**	n/a	n/a	n/a
Uranium	0.3	0.006	0.005	0.007	0.000105	**0.020**	**0.017**	**66.667**	n/a	n/a	n/a
Vanadium	30.9	0.0699	0.05	0.05	0.00117	**0.002**	**0.002**	**42.735**	n/a	n/a	n/a
Zinc	21.36	9.912	3	4.503	0.00263	0.464	0.140	**1712.167**	**0.01261**	**0.02231**	2059

Notes:
HHRA = Human Health Risk Assessment; EPC = exposure point concentration; BAF = bioaccumulation factor; n/a = not available; µg/g = microgram per gram; mg/L = milligram per litre; kg = kilogram; L = litre; ww = wet weight.

(a) Surface water concetrations are the mean water concentration at Duley Lake

(b) US EPA OSW (US Environmental Protection Agency - Office of Solid Waste). 2005. Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Final. U.S. EPA Region VI. Multimedia Planning and Permitting Division. Center for Combustion Science and Engineering. Office of Solid Waste.

(c) Literature BAFs from US EPA OSW (2005) are reported in dry weight and were converted to wet weight using the average moisture content of 87% for above ground plants (US EPA 2005) and 77% for berries (Suter 2006).

EPC value is a 95% upper confidence limit of the mean (95% UCLM)
EPC value is a maximum
EPC value is a detection limit
Value is the selected BAF

ATTACHMENT A2

ProUCL Outputs

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Total Organic Carbon

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	4800	Mean	12618
Maximum	25000	Median	9900
SD	6750	Std. Error of Mean	2035
Coefficient of Variation	0.535	Skewness	0.755

Normal GOF Test

Shapiro Wilk Test Statistic	0.914	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.202	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	16307	95% Adjusted-CLT UCL (Chen-1995)	16460
		95% Modified-t UCL (Johnson-1978)	16384

Gamma GOF Test

A-D Test Statistic	0.243	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.733	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.161	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.256	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	3.97	k star (bias corrected MLE)	2.948
Theta hat (MLE)	3179	Theta star (bias corrected MLE)	4281
nu hat (MLE)	87.33	nu star (bias corrected)	64.85
MLE Mean (bias corrected)	12618	MLE Sd (bias corrected)	7349
		Approximate Chi Square Value (0.05)	47.32
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	44.89

Assuming Gamma Distribution

95% Approximate Gamma UCL	17292	95% Adjusted Gamma UCL	18229

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.965	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.127	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	8.476	Mean of logged Data	9.312
Maximum of Logged Data	10.13	SD of logged Data	0.542

Assuming Lognormal Distribution

95% H-UCL	18798	90% Chebyshev (MVUE) UCL	18976
95% Chebyshev (MVUE) UCL	21850	97.5% Chebyshev (MVUE) UCL	25840
99% Chebyshev (MVUE) UCL	33676		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	15966	95% BCA Bootstrap UCL	16209
95% Standard Bootstrap UCL	15784	95% Bootstrap-t UCL	16850
95% Hall's Bootstrap UCL	16316	95% Percentile Bootstrap UCL	15945
90% Chebyshev(Mean, Sd) UCL	18724	95% Chebyshev(Mean, Sd) UCL	21489
97.5% Chebyshev(Mean, Sd) UCL	25328	99% Chebyshev(Mean, Sd) UCL	32868

Suggested UCL to Use

95% Student's-t UCL 16307

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Available (CaCl2) pH

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	3.03	Mean	4.067
Maximum	5.3	Median	4.16
SD	0.685	Std. Error of Mean	0.207
Coefficient of Variation	0.168	Skewness	0.139

Normal GOF Test

Shapiro Wilk Test Statistic	0.973	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.13	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	4.442	95% Adjusted-CLT UCL (Chen-1995)	4.416
		95% Modified-t UCL (Johnson-1978)	4.443

Gamma GOF Test

A-D Test Statistic	0.215	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.729	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.133	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.255	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma Statistics

k hat (MLE)	38.4	k star (bias corrected MLE)	27.99
Theta hat (MLE)	0.106	Theta star (bias corrected MLE)	0.145
nu hat (MLE)	844.7	nu star (bias corrected)	615.7
MLE Mean (bias corrected)	4.067	MLE Sd (bias corrected)	0.769
		Approximate Chi Square Value (0.05)	559.1
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	550.3

Assuming Gamma Distribution

95% Approximate Gamma UCL	4.479	95% Adjusted Gamma UCL	4.55

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.971	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.134	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.109	Mean of logged Data	1.39
Maximum of Logged Data	1.668	SD of logged Data	0.17

Assuming Lognormal Distribution

95% H-UCL	4.497	90% Chebyshev (MVUE) UCL	4.697
95% Chebyshev (MVUE) UCL	4.981	97.5% Chebyshev (MVUE) UCL	5.377
99% Chebyshev (MVUE) UCL	6.153		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	4.407	95% BCA Bootstrap UCL	4.393
95% Standard Bootstrap UCL	4.389	95% Bootstrap-t UCL	4.453
95% Hall's Bootstrap UCL	4.435	95% Percentile Bootstrap UCL	4.39
90% Chebyshev(Mean, Sd) UCL	4.687	95% Chebyshev(Mean, Sd) UCL	4.967
97.5% Chebyshev(Mean, Sd) UCL	5.357	99% Chebyshev(Mean, Sd) UCL	6.122

Suggested UCL to Use

95% Student's-t UCL	4.442

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Aluminum

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	990	Mean	5990
Maximum	17000	Median	4300
SD	4933	Std. Error of Mean	1487
Coefficient of Variation	0.823	Skewness	1.223

Normal GOF Test

Shapiro Wilk Test Statistic	0.876	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.247	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL	8686

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	9022
95% Modified-t UCL (Johnson-1978)	8777

Gamma GOF Test

A-D Test Statistic	0.237	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.741	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.16	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.259	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.662	k star (bias corrected MLE)	1.269
Theta hat (MLE)	3605	Theta star (bias corrected MLE)	4720
nu hat (MLE)	36.56	nu star (bias corrected)	27.92
MLE Mean (bias corrected)	5990	MLE Sd (bias corrected)	5317
		Approximate Chi Square Value (0.05)	16.87
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	15.48

Assuming Gamma Distribution

95% Approximate Gamma UCL	9916	95% Adjusted Gamma UCL	10804

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.965	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.135	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	6.898	Mean of logged Data	8.368
Maximum of Logged Data	9.741	SD of logged Data	0.892

Assuming Lognormal Distribution

95% H-UCL	14112	90% Chebyshev (MVUE) UCL	11318
95% Chebyshev (MVUE) UCL	13672	97.5% Chebyshev (MVUE) UCL	16940
99% Chebyshev (MVUE) UCL	23358		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nonparametric Distribution Free UCLs

95% CLT UCL	8436	95% BCA Bootstrap UCL	8864
95% Standard Bootstrap UCL	8332	95% Bootstrap-t UCL	9931
95% Hall's Bootstrap UCL	9411	95% Percentile Bootstrap UCL	8436
90% Chebyshev(Mean, Sd) UCL	10452	95% Chebyshev(Mean, Sd) UCL	12473
97.5% Chebyshev(Mean, Sd) UCL	15278	99% Chebyshev(Mean, Sd) UCL	20788

Suggested UCL to Use

95% Student's-t UCL 8686

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Antimony

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).
The data set for variable Antimony was not processed!

Arsenic

General Statistics

Total Number of Observations	11	Number of Distinct Observations	5
Number of Detects	4	Number of Non-Detects	7
Number of Distinct Detects	4	Number of Distinct Non-Detects	1
Minimum Detect	1.3	Minimum Non-Detect	1
Maximum Detect	2.4	Maximum Non-Detect	1
Variance Detects	0.257	Percent Non-Detects	63.64%
Mean Detects	1.75	SD Detects	0.507
Median Detects	1.65	CV Detects	0.289
Skewness Detects	0.738	Kurtosis Detects	-1.608
Mean of Logged Detects	0.529	SD of Logged Detects	0.283

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.916	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.687	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.255	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.413	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level
Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1.273	KM Standard Error of Mean	0.156
90KM SD	0.447	95% KM (BCA) UCL	N/A
95% KM (t) UCL	1.555	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	1.529	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	1.74	95% KM Chebyshev UCL	1.952
97.5% KM Chebyshev UCL	2.245	99% KM Chebyshev UCL	2.823

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.325	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.657	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.285	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.394	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level
Note GOF tests may be unreliable for small sample sizes

Gamma Statistics on Detected Data Only

k hat (MLE)	16.52	k star (bias corrected MLE)	4.296
Theta hat (MLE)	0.106	Theta star (bias corrected MLE)	0.407
nu hat (MLE)	132.1	nu star (bias corrected)	34.37
Mean (detects)	1.75		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.796
Maximum	2.4	Median	0.54
SD	0.838	CV	1.053
k hat (MLE)	0.516	k star (bias corrected MLE)	0.436
Theta hat (MLE)	1.542	Theta star (bias corrected MLE)	1.826
nu hat (MLE)	11.36	nu star (bias corrected)	9.595
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (9.60, α)	3.69	Adjusted Chi Square Value (9.60, β)	3.117
95% Gamma Approximate UCL	2.071	95% Gamma Adjusted UCL	N/A

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1.273	SD (KM)	0.447
Variance (KM)	0.2	SE of Mean (KM)	0.156
k hat (KM)	8.092	k star (KM)	5.946
nu hat (KM)	178	nu star (KM)	130.8
theta hat (KM)	0.157	theta star (KM)	0.214
80% gamma percentile (KM)	1.679	90% gamma percentile (KM)	1.971
95% gamma percentile (KM)	2.235	99% gamma percentile (KM)	2.789

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (130.81, α)	105.4	Adjusted Chi Square Value (130.81, β)	101.7
95% KM Approximate Gamma UCL	1.58	95% KM Adjusted Gamma UCL	1.637

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.927	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.792	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.252	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.346	Detected Data appear Lognormal at 10% Significance Level

Detected Data appear Lognormal at 10% Significance Level

Note GOF tests may be unreliable for small sample sizes

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1.029	Mean in Log Scale	-0.155
SD in Original Scale	0.659	SD in Log Scale	0.64
95% t UCL (assumes normality of ROS data)	1.389	95% Percentile Bootstrap UCL	1.364
95% BCA Bootstrap UCL	1.397	95% Bootstrap t UCL	1.5
95% H-UCL (Log ROS)	1.699		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	0.192	KM Geo Mean	1.212
KM SD (logged)	0.294	95% Critical H Value (KM-Log)	1.944
KM Standard Error of Mean (logged)	0.102	95% H-UCL (KM -Log)	1.517
KM SD (logged)	0.294	95% Critical H Value (KM-Log)	1.944
KM Standard Error of Mean (logged)	0.102		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.955	Mean in Log Scale	-0.249
SD in Original Scale	0.689	SD in Log Scale	0.636
95% t UCL (Assumes normality)	1.331	95% H-Stat UCL	1.536

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL 1.555

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Barium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	6.4	Mean	36.02
Maximum	200	Median	18
SD	55.88	Std. Error of Mean	16.85
Coefficient of Variation	1.551	Skewness	3.013

Normal GOF Test

Shapiro Wilk Test Statistic	0.545	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.352	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data Not Normal at 1% Significance Level

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	66.55	95% Adjusted-CLT UCL (Chen-1995)	80.08
		95% Modified-t UCL (Johnson-1978)	69.1

Gamma GOF Test

A-D Test Statistic	0.892	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.752	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.24	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.263	Detected data appear Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.982	k star (bias corrected MLE)	0.775
Theta hat (MLE)	36.69	Theta star (bias corrected MLE)	46.5
nu hat (MLE)	21.6	nu star (bias corrected)	17.04
MLE Mean (bias corrected)	36.02	MLE Sd (bias corrected)	40.93
		Approximate Chi Square Value (0.05)	8.701
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	7.748

Assuming Gamma Distribution

95% Approximate Gamma UCL	70.54	95% Adjusted Gamma UCL	79.22

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.901	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.178	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.856	Mean of logged Data	2.995
Maximum of Logged Data	5.298	SD of logged Data	1.005

Assuming Lognormal Distribution

95% H-UCL	86.03	90% Chebyshev (MVUE) UCL	61.07
95% Chebyshev (MVUE) UCL	74.64	97.5% Chebyshev (MVUE) UCL	93.48
99% Chebyshev (MVUE) UCL	130.5		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nonparametric Distribution Free UCLs

95% CLT UCL	63.73	95% BCA Bootstrap UCL	82.11
95% Standard Bootstrap UCL	62.67	95% Bootstrap-t UCL	146.2
95% Hall's Bootstrap UCL	161.3	95% Percentile Bootstrap UCL	67.44
90% Chebyshev(Mean, Sd) UCL	86.56	95% Chebyshev(Mean, Sd) UCL	109.5
97.5% Chebyshev(Mean, Sd) UCL	141.2	99% Chebyshev(Mean, Sd) UCL	203.7

Suggested UCL to Use

95% Adjusted Gamma UCL 79.22

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Beryllium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	2
Number of Detects	2	Number of Non-Detects	9
Number of Distinct Detects	2	Number of Distinct Non-Detects	1
Minimum Detect	0.2	Minimum Non-Detect	0.2
Maximum Detect	0.29	Maximum Non-Detect	0.2
Variance Detects	0.00405	Percent Non-Detects	81.82%
Mean Detects	0.245	SD Detects	0.0636
Median Detects	0.245	CV Detects	0.26
Skewness Detects	N/A	Kurtosis Detects	N/A
Mean of Logged Detects	-1.424	SD of Logged Detects	0.263

Warning: Data set has only 2 Detected Values.
This is not enough to compute meaningful or reliable statistics and estimates.

Normal GOF Test on Detects Only

Not Enough Data to Perform GOF Test

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.208	KM Standard Error of Mean	0.011
90KM SD	0.0259	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.228	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.226	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.241	95% KM Chebyshev UCL	0.256
97.5% KM Chebyshev UCL	0.277	99% KM Chebyshev UCL	0.318

Gamma GOF Tests on Detected Observations Only

Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	29.3	k star (bias corrected MLE)	N/A
Theta hat (MLE)	0.00836	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	117.2	nu star (bias corrected)	N/A
Mean (detects)	0.245		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.208	SD (KM)	0.0259
Variance (KM)	6.6942E-4	SE of Mean (KM)	0.011
k hat (KM)	64.74	k star (KM)	47.15
nu hat (KM)	1424	nu star (KM)	1037
theta hat (KM)	0.00322	theta star (KM)	0.00442
80% gamma percentile (KM)	0.233	90% gamma percentile (KM)	0.248
95% gamma percentile (KM)	0.26	99% gamma percentile (KM)	0.285

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.0278
Approximate Chi Square Value (N/A, α)	963.4	Adjusted Chi Square Value (N/A, β)	951.8
95% KM Approximate Gamma UCL	0.224	95% KM Adjusted Gamma UCL	0.227

Lognormal GOF Test on Detected Observations Only

Not Enough Data to Perform GOF Test

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.0916	Mean in Log Scale	-2.735
SD in Original Scale	0.0841	SD in Log Scale	0.872
95% t UCL (assumes normality of ROS data)	0.138	95% Percentile Bootstrap UCL	0.135
95% BCA Bootstrap UCL	0.145	95% Bootstrap t UCL	0.179
95% H-UCL (Log ROS)	0.203		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-1.576	KM Geo Mean	0.207
KM SD (logged)	0.107	95% Critical H Value (KM-Log)	1.791
KM Standard Error of Mean (logged)	0.0455	95% H-UCL (KM -Log)	0.221
KM SD (logged)	0.107	95% Critical H Value (KM-Log)	1.791
KM Standard Error of Mean (logged)	0.0455		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.126	Mean in Log Scale	-2.143
SD in Original Scale	0.062	SD in Log Scale	0.365
95% t UCL (Assumes normality)	0.16	95% H-Stat UCL	0.158

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Suggested UCL to Use

95% KM (t) UCL 0.228

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Bismuth

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Bismuth was not processed!

Boron (Total)

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Boron (Total) was not processed!

Cadmium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Cadmium was not processed!

Calcium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	79	Mean	766.3
Maximum	2000	Median	390
SD	669	Std. Error of Mean	201.7
Coefficient of Variation	0.873	Skewness	0.84

Normal GOF Test

Shapiro Wilk Test Statistic	0.816	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.349	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data Not Normal at 1% Significance Level

Data appear Approximate Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	1132	95% Adjusted-CLT UCL (Chen-1995)	1153
		95% Modified-t UCL (Johnson-1978)	1140

Gamma GOF Test

A-D Test Statistic	0.714	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.744	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.3	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.26	Data Not Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.401	k star (bias corrected MLE)	1.08
Theta hat (MLE)	546.9	Theta star (bias corrected MLE)	709.8
nu hat (MLE)	30.82	nu star (bias corrected)	23.75
MLE Mean (bias corrected)	766.3	MLE Sd (bias corrected)	737.5
		Approximate Chi Square Value (0.05)	13.66
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	12.43

Assuming Gamma Distribution

95% Approximate Gamma UCL	1332	95% Adjusted Gamma UCL	1464

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.905	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.247	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data Not Lognormal at 10% Significance Level

Data appear Approximate Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.369	Mean of logged Data	6.244
Maximum of Logged Data	7.601	SD of logged Data	0.987

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Assuming Lognormal Distribution

95% H-UCL	2121	90% Chebyshev (MVUE) UCL	1537
95% Chebyshev (MVUE) UCL	1875	97.5% Chebyshev (MVUE) UCL	2345
99% Chebyshev (MVUE) UCL	3267		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	1098	95% BCA Bootstrap UCL	1108
95% Standard Bootstrap UCL	1081	95% Bootstrap-t UCL	1204
95% Hall's Bootstrap UCL	1049	95% Percentile Bootstrap UCL	1089
90% Chebyshev(Mean, Sd) UCL	1371	95% Chebyshev(Mean, Sd) UCL	1645
97.5% Chebyshev(Mean, Sd) UCL	2026	99% Chebyshev(Mean, Sd) UCL	2773

Suggested UCL to Use

95% Student's-t UCL 1132

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Chromium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	2.4	Mean	25.09
Maximum	97	Median	17
SD	27.13	Std. Error of Mean	8.18
Coefficient of Variation	1.081	Skewness	2.142

Normal GOF Test

Shapiro Wilk Test Statistic	0.751	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.316	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data Not Normal at 1% Significance Level	

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	39.92	95% Adjusted-CLT UCL (Chen-1995)	44.19
		95% Modified-t UCL (Johnson-1978)	40.8

Gamma GOF Test

A-D Test Statistic	0.316	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.748	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.217	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.261	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.19	k star (bias corrected MLE)	0.926
Theta hat (MLE)	21.08	Theta star (bias corrected MLE)	27.09
nu hat (MLE)	26.18	nu star (bias corrected)	20.37
MLE Mean (bias corrected)	25.09	MLE Sd (bias corrected)	26.07
		Approximate Chi Square Value (0.05)	11.13
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	10.03

Assuming Gamma Distribution

95% Approximate Gamma UCL	45.94	95% Adjusted Gamma UCL	50.97

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.968	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.187	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.875	Mean of logged Data	2.747
Maximum of Logged Data	4.575	SD of logged Data	1.068

Assuming Lognormal Distribution

95% H-UCL	79.33	90% Chebyshev (MVUE) UCL	52.01
95% Chebyshev (MVUE) UCL	63.95	97.5% Chebyshev (MVUE) UCL	80.52
99% Chebyshev (MVUE) UCL	113.1		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	38.55	95% BCA Bootstrap UCL	43.13
95% Standard Bootstrap UCL	38.03	95% Bootstrap-t UCL	54.69
95% Hall's Bootstrap UCL	93.27	95% Percentile Bootstrap UCL	39.36
90% Chebyshev(Mean, Sd) UCL	49.63	95% Chebyshev(Mean, Sd) UCL	60.75
97.5% Chebyshev(Mean, Sd) UCL	76.18	99% Chebyshev(Mean, Sd) UCL	106.5

Suggested UCL to Use

95% Adjusted Gamma UCL 50.97

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Cobalt

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	0.92	Mean	4.293
Maximum	14	Median	2.2
SD	4.175	Std. Error of Mean	1.259
Coefficient of Variation	0.973	Skewness	1.66

Normal GOF Test

Shapiro Wilk Test Statistic	0.771	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.265	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level	

Data appear Approximate Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	6.574	95% Adjusted-CLT UCL (Chen-1995)	7.037
		95% Modified-t UCL (Johnson-1978)	6.679

Gamma GOF Test

A-D Test Statistic	0.54	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.742	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.224	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.26	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.544	k star (bias corrected MLE)	1.184
Theta hat (MLE)	2.78	Theta star (bias corrected MLE)	3.627
nu hat (MLE)	33.97	nu star (bias corrected)	26.04
MLE Mean (bias corrected)	4.293	MLE Sd (bias corrected)	3.946
		Approximate Chi Square Value (0.05)	15.41
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	14.09

Assuming Gamma Distribution

95% Approximate Gamma UCL	7.254	95% Adjusted Gamma UCL	7.932

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.947	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.187	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-0.0834	Mean of logged Data	1.099
Maximum of Logged Data	2.639	SD of logged Data	0.855

Assuming Lognormal Distribution

95% H-UCL	9.049	90% Chebyshev (MVUE) UCL	7.517
95% Chebyshev (MVUE) UCL	9.043	97.5% Chebyshev (MVUE) UCL	11.16
99% Chebyshev (MVUE) UCL	15.32		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	6.363	95% BCA Bootstrap UCL	6.765
95% Standard Bootstrap UCL	6.258	95% Bootstrap-t UCL	9.169
95% Hall's Bootstrap UCL	9.424	95% Percentile Bootstrap UCL	6.382
90% Chebyshev(Mean, Sd) UCL	8.069	95% Chebyshev(Mean, Sd) UCL	9.78
97.5% Chebyshev(Mean, Sd) UCL	12.15	99% Chebyshev(Mean, Sd) UCL	16.82

Suggested UCL to Use

95% Student's-t UCL 6.574

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Copper

General Statistics

Total Number of Observations	11	Number of Distinct Observations	9
Number of Detects	10	Number of Non-Detects	1
Number of Distinct Detects	8	Number of Distinct Non-Detects	1
Minimum Detect	0.58	Minimum Non-Detect	0.5
Maximum Detect	9.4	Maximum Non-Detect	0.5
Variance Detects	6.861	Percent Non-Detects	9.091%
Mean Detects	4.008	SD Detects	2.619
Median Detects	3.95	CV Detects	0.654
Skewness Detects	0.932	Kurtosis Detects	0.807
Mean of Logged Detects	1.156	SD of Logged Detects	0.791

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.925	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.781	Detected Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.226	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.304	Detected Data appear Normal at 1% Significance Level	

Detected Data appear Normal at 1% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	3.689	KM Standard Error of Mean	0.818
90KM SD	2.575	95% KM (BCA) UCL	5.071
95% KM (t) UCL	5.172	95% KM (Percentile Bootstrap) UCL	5.009
95% KM (z) UCL	5.035	95% KM Bootstrap t UCL	5.522
90% KM Chebyshev UCL	6.144	95% KM Chebyshev UCL	7.256
97.5% KM Chebyshev UCL	8.8	99% KM Chebyshev UCL	11.83

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.255	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.735	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.172	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.269	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	2.302	k star (bias corrected MLE)	1.678
Theta hat (MLE)	1.741	Theta star (bias corrected MLE)	2.388
nu hat (MLE)	46.04	nu star (bias corrected)	33.56
Mean (detects)	4.008		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	3.645
Maximum	9.4	Median	3.9
SD	2.762	CV	0.758
k hat (MLE)	0.886	k star (bias corrected MLE)	0.705
Theta hat (MLE)	4.114	Theta star (bias corrected MLE)	5.171
nu hat (MLE)	19.49	nu star (bias corrected)	15.51
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (15.51, α)	7.615	Adjusted Chi Square Value (15.51, β)	6.733
95% Gamma Approximate UCL	7.421	95% Gamma Adjusted UCL	8.394

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	3.689	SD (KM)	2.575
Variance (KM)	6.63	SE of Mean (KM)	0.818
k hat (KM)	2.053	k star (KM)	1.553
nu hat (KM)	45.16	nu star (KM)	34.18
theta hat (KM)	1.797	theta star (KM)	2.375
80% gamma percentile (KM)	5.686	90% gamma percentile (KM)	7.622
95% gamma percentile (KM)	9.498	99% gamma percentile (KM)	13.73

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (34.18, α)	21.8	Adjusted Chi Square Value (34.18, β)	20.21
95% KM Approximate Gamma UCL	5.782	95% KM Adjusted Gamma UCL	6.239

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.93	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.869	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.202	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.241	Detected Data appear Lognormal at 10% Significance Level

Detected Data appear Lognormal at 10% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	3.689	Mean in Log Scale	0.987
SD in Original Scale	2.701	SD in Log Scale	0.937
95% t UCL (assumes normality of ROS data)	5.165	95% Percentile Bootstrap UCL	5.061
95% BCA Bootstrap UCL	5.172	95% Bootstrap t UCL	5.488
95% H-UCL (Log ROS)	9.758		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	0.988	KM Geo Mean	2.685
KM SD (logged)	0.892	95% Critical H Value (KM-Log)	2.795
KM Standard Error of Mean (logged)	0.283	95% H-UCL (KM -Log)	8.785
KM SD (logged)	0.892	95% Critical H Value (KM-Log)	2.795
KM Standard Error of Mean (logged)	0.283		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	3.666	Mean in Log Scale	0.925
SD in Original Scale	2.731	SD in Log Scale	1.073
95% t UCL (Assumes normality)	5.159	95% H-Stat UCL	13.01

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL	5.172

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Iron

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	11000	Mean	38455
Maximum	89000	Median	29000
SD	23432	Std. Error of Mean	7065
Coefficient of Variation	0.609	Skewness	1.317

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Normal GOF Test

Shapiro Wilk Test Statistic	0.84	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.277	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL 51260

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	53074
95% Modified-t UCL (Johnson-1978)	51728

Gamma GOF Test

A-D Test Statistic	0.549	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.733	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.237	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.257	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	3.421	k star (bias corrected MLE)	2.549
Theta hat (MLE)	11240	Theta star (bias corrected MLE)	15088
nu hat (MLE)	75.27	nu star (bias corrected)	56.07
MLE Mean (bias corrected)	38455	MLE Sd (bias corrected)	24087
		Approximate Chi Square Value (0.05)	39.86
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	37.64

Assuming Gamma Distribution

95% Approximate Gamma UCL	54092	95% Adjusted Gamma UCL	57280

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.936	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.202	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	9.306	Mean of logged Data	10.4
Maximum of Logged Data	11.4	SD of logged Data	0.579

Assuming Lognormal Distribution

95% H-UCL	59256	90% Chebyshev (MVUE) UCL	58972
95% Chebyshev (MVUE) UCL	68314	97.5% Chebyshev (MVUE) UCL	81281
99% Chebyshev (MVUE) UCL	106750		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	50076	95% BCA Bootstrap UCL	52727
95% Standard Bootstrap UCL	49279	95% Bootstrap-t UCL	60730
95% Hall's Bootstrap UCL	68518	95% Percentile Bootstrap UCL	50091
90% Chebyshev(Mean, Sd) UCL	59650	95% Chebyshev(Mean, Sd) UCL	69251
97.5% Chebyshev(Mean, Sd) UCL	82576	99% Chebyshev(Mean, Sd) UCL	108751

Suggested UCL to Use

95% Student's-t UCL 51260

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Lead

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	1.4	Mean	4.155
Maximum	9.4	Median	4.5
SD	2.327	Std. Error of Mean	0.702
Coefficient of Variation	0.56	Skewness	1.055

Normal GOF Test

Shapiro Wilk Test Statistic	0.907	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.174	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL 5.426

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	5.547
95% Modified-t UCL (Johnson-1978)	5.464

Gamma GOF Test

A-D Test Statistic	0.296	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.733	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.174	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.257	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	3.674	k star (bias corrected MLE)	2.733
Theta hat (MLE)	1.131	Theta star (bias corrected MLE)	1.52
nu hat (MLE)	80.83	nu star (bias corrected)	60.12
MLE Mean (bias corrected)	4.155	MLE Sd (bias corrected)	2.513
		Approximate Chi Square Value (0.05)	43.29
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	40.97

Assuming Gamma Distribution

95% Approximate Gamma UCL	5.77	95% Adjusted Gamma UCL	6.096

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.964	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.198	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.336	Mean of logged Data	1.282
Maximum of Logged Data	2.241	SD of logged Data	0.568

Assuming Lognormal Distribution

95% H-UCL	6.361	90% Chebyshev (MVUE) UCL	6.359
95% Chebyshev (MVUE) UCL	7.353	97.5% Chebyshev (MVUE) UCL	8.733
99% Chebyshev (MVUE) UCL	11.44		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	5.309	95% BCA Bootstrap UCL	5.382
95% Standard Bootstrap UCL	5.247	95% Bootstrap-t UCL	5.867
95% Hall's Bootstrap UCL	5.972	95% Percentile Bootstrap UCL	5.282
90% Chebyshev(Mean, Sd) UCL	6.26	95% Chebyshev(Mean, Sd) UCL	7.213
97.5% Chebyshev(Mean, Sd) UCL	8.537	99% Chebyshev(Mean, Sd) UCL	11.14

Suggested UCL to Use

95% Student's-t UCL	5.426

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Magnesium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	140	Mean	2560
Maximum	13000	Median	1200
SD	3733	Std. Error of Mean	1125
Coefficient of Variation	1.458	Skewness	2.575

Normal GOF Test

Shapiro Wilk Test Statistic	0.66	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.276	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Approximate Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL	4600

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	5345
95% Modified-t UCL (Johnson-1978)	4745

Gamma GOF Test

A-D Test Statistic	0.317	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.764	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.141	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.265	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.73	k star (bias corrected MLE)	0.591
Theta hat (MLE)	3509	Theta star (bias corrected MLE)	4330
nu hat (MLE)	16.05	nu star (bias corrected)	13.01
MLE Mean (bias corrected)	2560	MLE Sd (bias corrected)	3330
		Approximate Chi Square Value (0.05)	5.897
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	5.137

Assuming Gamma Distribution

95% Approximate Gamma UCL	5646	95% Adjusted Gamma UCL	6481

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.958	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.136	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.942	Mean of logged Data	7.024
Maximum of Logged Data	9.473	SD of logged Data	1.423

Assuming Lognormal Distribution

95% H-UCL	17628	90% Chebyshev (MVUE) UCL	6336
95% Chebyshev (MVUE) UCL	8003	97.5% Chebyshev (MVUE) UCL	10317
99% Chebyshev (MVUE) UCL	14862		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	4411	95% BCA Bootstrap UCL	5405
95% Standard Bootstrap UCL	4336	95% Bootstrap-t UCL	8359
95% Hall's Bootstrap UCL	11640	95% Percentile Bootstrap UCL	4538
90% Chebyshev(Mean, Sd) UCL	5936	95% Chebyshev(Mean, Sd) UCL	7465
97.5% Chebyshev(Mean, Sd) UCL	9588	99% Chebyshev(Mean, Sd) UCL	13758

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Suggested UCL to Use

95% Student's-t UCL 4600

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Manganese

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	32	Mean	428.4
Maximum	1600	Median	150
SD	552.8	Std. Error of Mean	166.7
Coefficient of Variation	1.291	Skewness	1.653

Normal GOF Test

Shapiro Wilk Test Statistic	0.708	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.319	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data Not Normal at 1% Significance Level	

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	730.5	95% Adjusted-CLT UCL (Chen-1995)	791.3
		95% Modified-t UCL (Johnson-1978)	744.3

Gamma GOF Test

A-D Test Statistic	0.568	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.759	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.208	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.264	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.825	k star (bias corrected MLE)	0.66
Theta hat (MLE)	519.5	Theta star (bias corrected MLE)	648.8
nu hat (MLE)	18.14	nu star (bias corrected)	14.53
MLE Mean (bias corrected)	428.4	MLE Sd (bias corrected)	527.2
		Approximate Chi Square Value (0.05)	6.933
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	6.098

Assuming Gamma Distribution

95% Approximate Gamma UCL	897.5	95% Adjusted Gamma UCL	1020

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.949	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.149	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	3.466	Mean of logged Data	5.343
Maximum of Logged Data	7.378	SD of logged Data	1.26

Assuming Lognormal Distribution

95% H-UCL	1883	90% Chebyshev (MVUE) UCL	921.2
95% Chebyshev (MVUE) UCL	1151	97.5% Chebyshev (MVUE) UCL	1469
99% Chebyshev (MVUE) UCL	2095		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	702.5	95% BCA Bootstrap UCL	791.6
95% Standard Bootstrap UCL	684.7	95% Bootstrap-t UCL	1321
95% Hall's Bootstrap UCL	2025	95% Percentile Bootstrap UCL	693.3
90% Chebyshev(Mean, Sd) UCL	928.4	95% Chebyshev(Mean, Sd) UCL	1155
97.5% Chebyshev(Mean, Sd) UCL	1469	99% Chebyshev(Mean, Sd) UCL	2087

Suggested UCL to Use

95% Adjusted Gamma UCL 1020

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Mercury

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Mercury was not processed!

Molybdenum

General Statistics

Total Number of Observations	11	Number of Distinct Observations	6
Number of Detects	5	Number of Non-Detects	6
Number of Distinct Detects	5	Number of Distinct Non-Detects	1
Minimum Detect	0.71	Minimum Non-Detect	0.5
Maximum Detect	1.1	Maximum Non-Detect	0.5
Variance Detects	0.0273	Percent Non-Detects	54.55%
Mean Detects	0.81	SD Detects	0.165
Median Detects	0.73	CV Detects	0.204
Skewness Detects	2.051	Kurtosis Detects	4.254
Mean of Logged Detects	-0.225	SD of Logged Detects	0.184

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.699	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.686	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.348	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.396	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level
Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.641	KM Standard Error of Mean	0.0619
90KM SD	0.184	95% KM (BCA) UCL	0.745
95% KM (t) UCL	0.753	95% KM (Percentile Bootstrap) UCL	0.739
95% KM (z) UCL	0.743	95% KM Bootstrap t UCL	0.725
90% KM Chebyshev UCL	0.827	95% KM Chebyshev UCL	0.911
97.5% KM Chebyshev UCL	1.028	99% KM Chebyshev UCL	1.257

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.813	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.678	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.336	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.357	Detected data appear Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level
Note GOF tests may be unreliable for small sample sizes

Gamma Statistics on Detected Data Only

k hat (MLE)	34.64	k star (bias corrected MLE)	13.99
Theta hat (MLE)	0.0234	Theta star (bias corrected MLE)	0.0579
nu hat (MLE)	346.4	nu star (bias corrected)	139.9
Mean (detects)	0.81		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.155	Mean	0.564
Maximum	1.1	Median	0.526
SD	0.275	CV	0.487
k hat (MLE)	4.036	k star (bias corrected MLE)	2.996
Theta hat (MLE)	0.14	Theta star (bias corrected MLE)	0.188
nu hat (MLE)	88.78	nu star (bias corrected)	65.9
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (65.90, α)	48.22	Adjusted Chi Square Value (65.90, β)	45.76
95% Gamma Approximate UCL	0.771	95% Gamma Adjusted UCL	0.813

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.641	SD (KM)	0.184
Variance (KM)	0.0337	SE of Mean (KM)	0.0619
k hat (KM)	12.18	k star (KM)	8.916
nu hat (KM)	267.9	nu star (KM)	196.1
theta hat (KM)	0.0526	theta star (KM)	0.0719
80% gamma percentile (KM)	0.811	90% gamma percentile (KM)	0.927
95% gamma percentile (KM)	1.03	99% gamma percentile (KM)	1.243

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (196.15, α)	164.7	Adjusted Chi Square Value (196.15, β)	160.1
95% KM Approximate Gamma UCL	0.763	95% KM Adjusted Gamma UCL	0.785

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.726	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.806	Detected Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.323	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.319	Detected Data Not Lognormal at 10% Significance Level

Detected Data Not Lognormal at 10% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.622	Mean in Log Scale	-0.527
SD in Original Scale	0.216	SD in Log Scale	0.338
95% t UCL (assumes normality of ROS data)	0.74	95% Percentile Bootstrap UCL	0.727
95% BCA Bootstrap UCL	0.745	95% Bootstrap t UCL	0.763
95% H-UCL (Log ROS)	0.773		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-0.48	KM Geo Mean	0.619
KM SD (logged)	0.258	95% Critical H Value (KM-Log)	1.91
KM Standard Error of Mean (logged)	0.087	95% H-UCL (KM -Log)	0.747
KM SD (logged)	0.258	95% Critical H Value (KM-Log)	1.91
KM Standard Error of Mean (logged)	0.087		

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

DL/2 Statistics

DL/2 Normal

Mean in Original Scale	0.505
SD in Original Scale	0.311
95% t UCL (Assumes normality)	0.674

DL/2 Log-Transformed

Mean in Log Scale	-0.859
SD in Log Scale	0.617
95% H-Stat UCL	0.81

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL 0.753

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Nickel

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	0.56	Mean	9.578
Maximum	48	Median	5.1
SD	13.62	Std. Error of Mean	4.108
Coefficient of Variation	1.422	Skewness	2.664

Normal GOF Test

Shapiro Wilk Test Statistic	0.631	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.325	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data Not Normal at 1% Significance Level	

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL	17.02

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	19.86
95% Modified-t UCL (Johnson-1978)	17.57

Gamma GOF Test

A-D Test Statistic	0.484	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.756	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.235	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.263	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.902	k star (bias corrected MLE)	0.716
Theta hat (MLE)	10.62	Theta star (bias corrected MLE)	13.37
nu hat (MLE)	19.84	nu star (bias corrected)	15.76
MLE Mean (bias corrected)	9.578	MLE Sd (bias corrected)	11.32
		Approximate Chi Square Value (0.05)	7.793
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	6.898

Assuming Gamma Distribution

95% Approximate Gamma UCL	19.37	95% Adjusted Gamma UCL	21.88

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.98	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.156	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-0.58	Mean of logged Data	1.611
Maximum of Logged Data	3.871	SD of logged Data	1.186

Assuming Lognormal Distribution

95% H-UCL	35.79	90% Chebyshev (MVUE) UCL	19.78
95% Chebyshev (MVUE) UCL	24.57	97.5% Chebyshev (MVUE) UCL	31.22
99% Chebyshev (MVUE) UCL	44.27		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	16.34	95% BCA Bootstrap UCL	20.42
95% Standard Bootstrap UCL	16.06	95% Bootstrap-t UCL	36.86
95% Hall's Bootstrap UCL	45.46	95% Percentile Bootstrap UCL	16.78
90% Chebyshev(Mean, Sd) UCL	21.9	95% Chebyshev(Mean, Sd) UCL	27.48
97.5% Chebyshev(Mean, Sd) UCL	35.23	99% Chebyshev(Mean, Sd) UCL	50.45

Suggested UCL to Use

95% Adjusted Gamma UCL 21.88

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Phosphorus

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	110	Mean	508.2
Maximum	1700	Median	390
SD	468.7	Std. Error of Mean	141.3
Coefficient of Variation	0.922	Skewness	1.776

Normal GOF Test

Shapiro Wilk Test Statistic	0.805	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.205	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	764.3	95% Adjusted-CLT UCL (Chen-1995)	821.5
		95% Modified-t UCL (Johnson-1978)	777

Gamma GOF Test

A-D Test Statistic	0.367	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.742	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.163	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.26	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.494	k star (bias corrected MLE)	1.147
Theta hat (MLE)	340.2	Theta star (bias corrected MLE)	443
nu hat (MLE)	32.87	nu star (bias corrected)	25.24
MLE Mean (bias corrected)	508.2	MLE Sd (bias corrected)	474.5
		Approximate Chi Square Value (0.05)	14.79
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	13.5

Assuming Gamma Distribution

95% Approximate Gamma UCL	867	95% Adjusted Gamma UCL	949.7

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.922	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.15	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.7	Mean of logged Data	5.86
Maximum of Logged Data	7.438	SD of logged Data	0.925

Assuming Lognormal Distribution

95% H-UCL	1242	90% Chebyshev (MVUE) UCL	963.3
95% Chebyshev (MVUE) UCL	1168	97.5% Chebyshev (MVUE) UCL	1452
99% Chebyshev (MVUE) UCL	2009		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	740.6	95% BCA Bootstrap UCL	814.5
95% Standard Bootstrap UCL	730.4	95% Bootstrap-t UCL	901.6
95% Hall's Bootstrap UCL	1693	95% Percentile Bootstrap UCL	744.5
90% Chebyshev(Mean, Sd) UCL	932.2	95% Chebyshev(Mean, Sd) UCL	1124
97.5% Chebyshev(Mean, Sd) UCL	1391	99% Chebyshev(Mean, Sd) UCL	1914

Suggested UCL to Use

95% Student's-t UCL	764.3

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Potassium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	7
Number of Detects	6	Number of Non-Detects	5
Number of Distinct Detects	6	Number of Distinct Non-Detects	1
Minimum Detect	220	Minimum Non-Detect	200
Maximum Detect	2700	Maximum Non-Detect	200
Variance Detects	827577	Percent Non-Detects	45.45%
Mean Detects	898.3	SD Detects	909.7
Median Detects	560	CV Detects	1.013
Skewness Detects	2.139	Kurtosis Detects	4.805
Mean of Logged Detects	6.477	SD of Logged Detects	0.836

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.72	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.713	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.333	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.373	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level

Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	580.9	KM Standard Error of Mean	232.9
90KM SD	705	95% KM (BCA) UCL	1013
95% KM (t) UCL	1003	95% KM (Percentile Bootstrap) UCL	982.7
95% KM (z) UCL	963.9	95% KM Bootstrap t UCL	1685
90% KM Chebyshev UCL	1280	95% KM Chebyshev UCL	1596
97.5% KM Chebyshev UCL	2035	99% KM Chebyshev UCL	2898

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.469	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.706	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.263	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.337	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Note GOF tests may be unreliable for small sample sizes

Gamma Statistics on Detected Data Only

k hat (MLE)	1.691	k star (bias corrected MLE)	0.956
Theta hat (MLE)	531.3	Theta star (bias corrected MLE)	939.2
nu hat (MLE)	20.29	nu star (bias corrected)	11.48
Mean (detects)	898.3		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	490
Maximum	2700	Median	220
SD	796.2	CV	1.625
k hat (MLE)	0.16	k star (bias corrected MLE)	0.177
Theta hat (MLE)	3061	Theta star (bias corrected MLE)	2768
nu hat (MLE)	3.522	nu star (bias corrected)	3.895
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (3.89, α)	0.681	Adjusted Chi Square Value (3.89, β)	0.497
95% Gamma Approximate UCL	2804	95% Gamma Adjusted UCL	3840

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	580.9	SD (KM)	705
Variance (KM)	497081	SE of Mean (KM)	232.9
k hat (KM)	0.679	k star (KM)	0.554
nu hat (KM)	14.94	nu star (KM)	12.2
theta hat (KM)	855.7	theta star (KM)	1048
80% gamma percentile (KM)	957	90% gamma percentile (KM)	1538
95% gamma percentile (KM)	2151	99% gamma percentile (KM)	3644

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (12.20, α)	5.356	Adjusted Chi Square Value (12.20, β)	4.638
95% KM Approximate Gamma UCL	1323	95% KM Adjusted Gamma UCL	1527

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.944	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.826	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.213	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.298	Detected Data appear Lognormal at 10% Significance Level

Detected Data appear Lognormal at 10% Significance Level

Note GOF tests may be unreliable for small sample sizes

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	521.6	Mean in Log Scale	5.375
SD in Original Scale	775.8	SD in Log Scale	1.47
95% t UCL (assumes normality of ROS data)	945.6	95% Percentile Bootstrap UCL	934
95% BCA Bootstrap UCL	1142	95% Bootstrap t UCL	1525
95% H-UCL (Log ROS)	4029		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	5.941	KM Geo Mean	380.3
KM SD (logged)	0.814	95% Critical H Value (KM-Log)	2.655
KM Standard Error of Mean (logged)	0.269	95% H-UCL (KM -Log)	1048
KM SD (logged)	0.814	95% Critical H Value (KM-Log)	2.655
KM Standard Error of Mean (logged)	0.269		

DL/2 Statistics

DL/2 Normal

Mean in Original Scale	535.5	Mean in Log Scale	5.626
SD in Original Scale	766.6	SD in Log Scale	1.142
95% t UCL (Assumes normality)	954.4	95% H-Stat UCL	1741

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL	1003

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Selenium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Selenium was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Silver

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Silver was not processed!

Sodium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	2
Number of Detects	1	Number of Non-Detects	10
Number of Distinct Detects	1	Number of Distinct Non-Detects	1

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Sodium was not processed!

Strontium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	1.2	Mean	6.8
Maximum	16	Median	6.9
SD	4.029	Std. Error of Mean	1.215
Coefficient of Variation	0.593	Skewness	0.991

Normal GOF Test

Shapiro Wilk Test Statistic	0.936	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.146	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	9.002	95% Adjusted-CLT UCL (Chen-1995)	9.186
		95% Modified-t UCL (Johnson-1978)	9.062

Gamma GOF Test

A-D Test Statistic	0.254	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.735	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.15	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.257	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	2.761	k star (bias corrected MLE)	2.069
Theta hat (MLE)	2.463	Theta star (bias corrected MLE)	3.287
nu hat (MLE)	60.74	nu star (bias corrected)	45.51
MLE Mean (bias corrected)	6.8	MLE Sd (bias corrected)	4.728
		Approximate Chi Square Value (0.05)	31.03
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	29.1

Assuming Gamma Distribution

95% Approximate Gamma UCL	9.972	95% Adjusted Gamma UCL	10.64

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.93	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.196	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.182	Mean of logged Data	1.725
Maximum of Logged Data	2.773	SD of logged Data	0.713

Assuming Lognormal Distribution

95% H-UCL	12.67	90% Chebyshev (MVUE) UCL	11.75
95% Chebyshev (MVUE) UCL	13.89	97.5% Chebyshev (MVUE) UCL	16.85
99% Chebyshev (MVUE) UCL	22.67		

Nonparametric Distribution Free UCL Statistics
Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	8.798	95% BCA Bootstrap UCL	8.982
95% Standard Bootstrap UCL	8.693	95% Bootstrap-t UCL	9.445
95% Hall's Bootstrap UCL	10.56	95% Percentile Bootstrap UCL	8.755
90% Chebyshev(Mean, Sd) UCL	10.44	95% Chebyshev(Mean, Sd) UCL	12.1
97.5% Chebyshev(Mean, Sd) UCL	14.39	99% Chebyshev(Mean, Sd) UCL	18.89

Suggested UCL to Use

95% Student's-t UCL	9.002

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Thallium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	5
Number of Detects	4	Number of Non-Detects	7
Number of Distinct Detects	4	Number of Distinct Non-Detects	1
Minimum Detect	0.062	Minimum Non-Detect	0.05
Maximum Detect	0.12	Maximum Non-Detect	0.05
Variance Detects	7.3492E-4	Percent Non-Detects	63.64%
Mean Detects	0.0818	SD Detects	0.0271
Median Detects	0.0725	CV Detects	0.332
Skewness Detects	1.394	Kurtosis Detects	1.413
Mean of Logged Detects	-2.542	SD of Logged Detects	0.309

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.84	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.687	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.255	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.413	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level

Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.0615	KM Standard Error of Mean	0.00725
90KM SD	0.0208	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.0747	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.0735	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.0833	95% KM Chebyshev UCL	0.0931
97.5% KM Chebyshev UCL	0.107	99% KM Chebyshev UCL	0.134

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.434	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.657	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.295	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.395	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Note GOF tests may be unreliable for small sample sizes

Gamma Statistics on Detected Data Only

k hat (MLE)	13.48	k star (bias corrected MLE)	3.537
Theta hat (MLE)	0.00606	Theta star (bias corrected MLE)	0.0231
nu hat (MLE)	107.9	nu star (bias corrected)	28.3
Mean (detects)	0.0818		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.0387
Maximum	0.12	Median	0.0189
SD	0.0377	CV	0.973
k hat (MLE)	1.263	k star (bias corrected MLE)	0.979
Theta hat (MLE)	0.0307	Theta star (bias corrected MLE)	0.0396
nu hat (MLE)	27.79	nu star (bias corrected)	21.54
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (21.54, α)	11.99	Adjusted Chi Square Value (21.54, β)	10.85
95% Gamma Approximate UCL	0.0696	95% Gamma Adjusted UCL	N/A

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.0615	SD (KM)	0.0208
Variance (KM)	4.3370E-4	SE of Mean (KM)	0.00725
k hat (KM)	8.734	k star (KM)	6.412
nu hat (KM)	192.1	nu star (KM)	141.1
theta hat (KM)	0.00705	theta star (KM)	0.0096
80% gamma percentile (KM)	0.0805	90% gamma percentile (KM)	0.094
95% gamma percentile (KM)	0.106	99% gamma percentile (KM)	0.132

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (141.07, α)	114.6	Adjusted Chi Square Value (141.07, β)	110.7
95% KM Approximate Gamma UCL	0.0757	95% KM Adjusted Gamma UCL	0.0784

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.867	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.792	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.265	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.346	Detected Data appear Lognormal at 10% Significance Level

Detected Data appear Lognormal at 10% Significance Level

Note GOF tests may be unreliable for small sample sizes

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.0467	Mean in Log Scale	-3.276
SD in Original Scale	0.0325	SD in Log Scale	0.688
95% t UCL (assumes normality of ROS data)	0.0645	95% Percentile Bootstrap UCL	0.0632
95% BCA Bootstrap UCL	0.0661	95% Bootstrap t UCL	0.0707
95% H-UCL (Log ROS)	0.0815		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-2.831	KM Geo Mean	0.059
KM SD (logged)	0.272	95% Critical H Value (KM-Log)	1.922
KM Standard Error of Mean (logged)	0.0945	95% H-UCL (KM -Log)	0.0722
KM SD (logged)	0.272	95% Critical H Value (KM-Log)	1.922
KM Standard Error of Mean (logged)	0.0945		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.0456	Mean in Log Scale	-3.272
SD in Original Scale	0.0323	SD in Log Scale	0.603
95% t UCL (Assumes normality)	0.0633	95% H-Stat UCL	0.0708

DL/2 is not a recommended method, provided for comparisons and historical reasons

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nonparametric Distribution Free UCL Statistics
Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use
95% KM (t) UCL 0.0747

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Tin

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Tin was not processed!

Uranium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	8
		Number of Missing Observations	0
Minimum	0.15	Mean	0.255
Maximum	0.39	Median	0.22
SD	0.0841	Std. Error of Mean	0.0253
Coefficient of Variation	0.33	Skewness	0.783

Normal GOF Test

Shapiro Wilk Test Statistic	0.863	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.249	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	0.3	95% Adjusted-CLT UCL (Chen-1995)	0.303
		95% Modified-t UCL (Johnson-1978)	0.301

Gamma GOF Test

A-D Test Statistic	0.563	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.729	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.21	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.255	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	10.82	k star (bias corrected MLE)	7.927
Theta hat (MLE)	0.0235	Theta star (bias corrected MLE)	0.0321
nu hat (MLE)	238	nu star (bias corrected)	174.4
MLE Mean (bias corrected)	0.255	MLE Sd (bias corrected)	0.0904
		Approximate Chi Square Value (0.05)	144.9
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	140.5

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.306	95% Adjusted Gamma UCL	0.316

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.915	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.191	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-1.897	Mean of logged Data	-1.415
Maximum of Logged Data	-0.942	SD of logged Data	0.318

Assuming Lognormal Distribution

95% H-UCL	0.311	90% Chebyshev (MVUE) UCL	0.328
95% Chebyshev (MVUE) UCL	0.361	97.5% Chebyshev (MVUE) UCL	0.408
99% Chebyshev (MVUE) UCL	0.499		

Nonparametric Distribution Free UCL Statistics
Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	0.296	95% BCA Bootstrap UCL	0.3
95% Standard Bootstrap UCL	0.294	95% Bootstrap-t UCL	0.307
95% Hall's Bootstrap UCL	0.295	95% Percentile Bootstrap UCL	0.296
90% Chebyshev(Mean, Sd) UCL	0.331	95% Chebyshev(Mean, Sd) UCL	0.365
97.5% Chebyshev(Mean, Sd) UCL	0.413	99% Chebyshev(Mean, Sd) UCL	0.507

Suggested UCL to Use
95% Student's-t UCL 0.3

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Vanadium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	9
		Number of Missing Observations	0
Minimum	5.7	Mean	24.97
Maximum	41	Median	27
SD	10.85	Std. Error of Mean	3.272
Coefficient of Variation	0.435	Skewness	-0.288

Normal GOF Test

Shapiro Wilk Test Statistic	0.955	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.159	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	30.9	95% Adjusted-CLT UCL (Chen-1995)	30.05
		95% Modified-t UCL (Johnson-1978)	30.86

Gamma GOF Test

A-D Test Statistic	0.439	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.732	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.173	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.256	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	4.314	k star (bias corrected MLE)	3.198
Theta hat (MLE)	5.788	Theta star (bias corrected MLE)	7.808
nu hat (MLE)	94.91	nu star (bias corrected)	70.36
MLE Mean (bias corrected)	24.97	MLE Sd (bias corrected)	13.96
		Approximate Chi Square Value (0.05)	52.05
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	49.49

Assuming Gamma Distribution

95% Approximate Gamma UCL	33.76	95% Adjusted Gamma UCL	35.5

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.867	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.181	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Approximate Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.74	Mean of logged Data	3.097
Maximum of Logged Data	3.714	SD of logged Data	0.572

Assuming Lognormal Distribution

95% H-UCL	39.33	90% Chebyshev (MVUE) UCL	39.26
95% Chebyshev (MVUE) UCL	45.43	97.5% Chebyshev (MVUE) UCL	53.99
99% Chebyshev (MVUE) UCL	70.8		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	30.35	95% BCA Bootstrap UCL	29.91
95% Standard Bootstrap UCL	30.16	95% Bootstrap-t UCL	30.65
95% Hall's Bootstrap UCL	29.91	95% Percentile Bootstrap UCL	30
90% Chebyshev(Mean, Sd) UCL	34.79	95% Chebyshev(Mean, Sd) UCL	39.23
97.5% Chebyshev(Mean, Sd) UCL	45.4	99% Chebyshev(Mean, Sd) UCL	57.53

Suggested UCL to Use

95% Student's-t UCL	30.9

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Zinc

General Statistics

Total Number of Observations	11	Number of Distinct Observations	9
Number of Detects	9	Number of Non-Detects	2
Number of Distinct Detects	8	Number of Distinct Non-Detects	1
Minimum Detect	5.5	Minimum Non-Detect	5
Maximum Detect	43	Maximum Non-Detect	5
Variance Detects	160.4	Percent Non-Detects	18.18%
Mean Detects	16.7	SD Detects	12.66
Median Detects	12	CV Detects	0.758
Skewness Detects	1.301	Kurtosis Detects	1.197
Mean of Logged Detects	2.573	SD of Logged Detects	0.739

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.853	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.764	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.2	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.316	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level
Note GOF tests may be unreliable for small sample sizes

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:47:57 PM
From File	Soil UCL Inputs (1).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	14.57	KM Standard Error of Mean	3.743
90KM SD	11.7	95% KM (BCA) UCL	21.02
95% KM (t) UCL	21.36	95% KM (Percentile Bootstrap) UCL	20.76
95% KM (z) UCL	20.73	95% KM Bootstrap t UCL	26.32
90% KM Chebyshev UCL	25.8	95% KM Chebyshev UCL	30.89
97.5% KM Chebyshev UCL	37.95	99% KM Chebyshev UCL	51.82

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.343	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.729	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.185	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.282	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Note GOF tests may be unreliable for small sample sizes

Gamma Statistics on Detected Data Only

k hat (MLE)	2.212	k star (bias corrected MLE)	1.549
Theta hat (MLE)	7.549	Theta star (bias corrected MLE)	10.78
nu hat (MLE)	39.82	nu star (bias corrected)	27.88
Mean (detects)	16.7		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	13.67
Maximum	43	Median	12
SD	13.19	CV	0.965
k hat (MLE)	0.475	k star (bias corrected MLE)	0.406
Theta hat (MLE)	28.76	Theta star (bias corrected MLE)	33.64
nu hat (MLE)	10.45	nu star (bias corrected)	8.937
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (8.94, α)	3.289	Adjusted Chi Square Value (8.94, β)	2.755
95% Gamma Approximate UCL	37.13	95% Gamma Adjusted UCL	44.33

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	14.57	SD (KM)	11.7
Variance (KM)	137	SE of Mean (KM)	3.743
k hat (KM)	1.55	k star (KM)	1.188
nu hat (KM)	34.1	nu star (KM)	26.14
theta hat (KM)	9.401	theta star (KM)	12.27
80% gamma percentile (KM)	23.1	90% gamma percentile (KM)	32.16
95% gamma percentile (KM)	41.1	99% gamma percentile (KM)	61.61

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (26.14, α)	15.48	Adjusted Chi Square Value (26.14, β)	14.16
95% KM Approximate Gamma UCL	24.6	95% KM Adjusted Gamma UCL	26.89

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.927	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.859	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.183	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.252	Detected Data appear Lognormal at 10% Significance Level

Detected Data appear Lognormal at 10% Significance Level

Note GOF tests may be unreliable for small sample sizes

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	14.06	Mean in Log Scale	2.244
SD in Original Scale	12.76	SD in Log Scale	0.989
95% t UCL (assumes normality of ROS data)	21.04	95% Percentile Bootstrap UCL	20.56
95% BCA Bootstrap UCL	21.61	95% Bootstrap t UCL	24.69
95% H-UCL (Log ROS)	39.06		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	2.398	KM Geo Mean	11
KM SD (logged)	0.731	95% Critical H Value (KM-Log)	2.516
KM Standard Error of Mean (logged)	0.234	95% H-UCL (KM -Log)	25.71
KM SD (logged)	0.731	95% Critical H Value (KM-Log)	2.516
KM Standard Error of Mean (logged)	0.234		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	14.12	Mean in Log Scale	2.272
SD in Original Scale	12.7	SD in Log Scale	0.941
95% t UCL (Assumes normality)	21.06	95% H-Stat UCL	35.62

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL	21.36

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Moisture

General Statistics

Total Number of Observations	12	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	82.81	Mean	84.37
Maximum	86.04	Median	84.15
SD	1.087	Std. Error of Mean	0.314
Coefficient of Variation	0.0129	Skewness	0.133

Normal GOF Test

Shapiro Wilk Test Statistic	0.94	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.805	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.164	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.281	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	84.94	95% Adjusted-CLT UCL (Chen-1995)	84.9
		95% Modified-t UCL (Johnson-1978)	84.94

Gamma GOF Test

A-D Test Statistic	0.537	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.731	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.239	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.245	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	6578	k star (bias corrected MLE)	4933
Theta hat (MLE)	0.0128	Theta star (bias corrected MLE)	0.0171
nu hat (MLE)	157860	nu star (bias corrected)	118397
MLE Mean (bias corrected)	84.37	MLE Sd (bias corrected)	1.201
		Approximate Chi Square Value (0.05)	117597
Adjusted Level of Significance	0.029	Adjusted Chi Square Value	117476

Assuming Gamma Distribution

95% Approximate Gamma UCL	84.95	95% Adjusted Gamma UCL	85.03

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.941	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.883	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.162	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.223	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.417	Mean of logged Data	4.435
Maximum of Logged Data	4.455	SD of logged Data	0.0129

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	85.31
95% Chebyshev (MVUE) UCL	85.74	97.5% Chebyshev (MVUE) UCL	86.33
99% Chebyshev (MVUE) UCL	87.49		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	84.89	95% BCA Bootstrap UCL	84.89
95% Standard Bootstrap UCL	84.87	95% Bootstrap-t UCL	84.97
95% Hall's Bootstrap UCL	84.88	95% Percentile Bootstrap UCL	84.87
90% Chebyshev(Mean, Sd) UCL	85.31	95% Chebyshev(Mean, Sd) UCL	85.74
97.5% Chebyshev(Mean, Sd) UCL	86.33	99% Chebyshev(Mean, Sd) UCL	87.49

Suggested UCL to Use

95% Student's-t UCL	84.94

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Antimony

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Antimony was not processed!

Arsenic

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Barium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	8
		Number of Missing Observations	0
Minimum	1.3	Mean	1.883
Maximum	2.7	Median	1.85
SD	0.455	Std. Error of Mean	0.131
Coefficient of Variation	0.242	Skewness	0.519

Normal GOF Test

Shapiro Wilk Test Statistic	0.931	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.805	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.157	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.281	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	2.119	95% Adjusted-CLT UCL (Chen-1995)	2.12
		95% Modified-t UCL (Johnson-1978)	2.122

Gamma GOF Test

A-D Test Statistic	0.294	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.732	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.142	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.245	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	19.14	k star (bias corrected MLE)	14.41
Theta hat (MLE)	0.0984	Theta star (bias corrected MLE)	0.131
nu hat (MLE)	459.5	nu star (bias corrected)	345.9
MLE Mean (bias corrected)	1.883	MLE Sd (bias corrected)	0.496
		Approximate Chi Square Value (0.05)	303.8
Adjusted Level of Significance	0.029	Adjusted Chi Square Value	297.8

Assuming Gamma Distribution

95% Approximate Gamma UCL	2.144	95% Adjusted Gamma UCL	2.188

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.947	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.883	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.141	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.223	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.262	Mean of logged Data	0.607
Maximum of Logged Data	0.993	SD of logged Data	0.239

Assuming Lognormal Distribution

95% H-UCL	2.161	90% Chebyshev (MVUE) UCL	2.276
95% Chebyshev (MVUE) UCL	2.454	97.5% Chebyshev (MVUE) UCL	2.701
99% Chebyshev (MVUE) UCL	3.186		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	2.099	95% BCA Bootstrap UCL	2.1
95% Standard Bootstrap UCL	2.091	95% Bootstrap-t UCL	2.141
95% Hall's Bootstrap UCL	2.155	95% Percentile Bootstrap UCL	2.1
90% Chebyshev(Mean, Sd) UCL	2.277	95% Chebyshev(Mean, Sd) UCL	2.456
97.5% Chebyshev(Mean, Sd) UCL	2.703	99% Chebyshev(Mean, Sd) UCL	3.19

Suggested UCL to Use

95% Student's-t UCL	2.119

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Beryllium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Beryllium was not processed!

Bismuth

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Bismuth was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Boron

General Statistics

Total Number of Observations	12	Number of Distinct Observations	4
Number of Detects	10	Number of Non-Detects	2
Number of Distinct Detects	4	Number of Distinct Non-Detects	1
Minimum Detect	0.5	Minimum Non-Detect	0.5
Maximum Detect	0.9	Maximum Non-Detect	0.5
Variance Detects	0.0134	Percent Non-Detects	16.67%
Mean Detects	0.63	SD Detects	0.116
Median Detects	0.6	CV Detects	0.184
Skewness Detects	1.411	Kurtosis Detects	2.83
Mean of Logged Detects	-0.476	SD of Logged Detects	0.172

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.829	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.781	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.302	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.304	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.608	KM Standard Error of Mean	0.0339
90KM SD	0.111	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.669	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.664	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.71	95% KM Chebyshev UCL	0.756
97.5% KM Chebyshev UCL	0.82	99% KM Chebyshev UCL	0.946

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.723	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.724	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.293	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.266	Detected Data Not Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	36.19	k star (bias corrected MLE)	25.4
Theta hat (MLE)	0.0174	Theta star (bias corrected MLE)	0.0248
nu hat (MLE)	723.9	nu star (bias corrected)	508.1
Mean (detects)	0.63		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.366	Mean	0.59
Maximum	0.9	Median	0.6
SD	0.141	CV	0.239
k hat (MLE)	19.25	k star (bias corrected MLE)	14.49
Theta hat (MLE)	0.0307	Theta star (bias corrected MLE)	0.0407
nu hat (MLE)	462	nu star (bias corrected)	347.8
Adjusted Level of Significance (β)	0.029		
Approximate Chi Square Value (347.80, α)	305.6	Adjusted Chi Square Value (347.80, β)	299.5
95% Gamma Approximate UCL	0.672	95% Gamma Adjusted UCL	0.685

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.608	SD (KM)	0.111
Variance (KM)	0.0124	SE of Mean (KM)	0.0339
k hat (KM)	29.77	k star (KM)	22.38
nu hat (KM)	714.5	nu star (KM)	537.2
theta hat (KM)	0.0204	theta star (KM)	0.0272
80% gamma percentile (KM)	0.713	90% gamma percentile (KM)	0.778
95% gamma percentile (KM)	0.834	99% gamma percentile (KM)	0.947

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (537.21, α)	484.5	Adjusted Chi Square Value (537.21, β)	476.8
95% KM Approximate Gamma UCL	0.675	95% KM Adjusted Gamma UCL	0.685

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.869	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.869	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.28	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.241	Detected Data Not Lognormal at 10% Significance Level

Detected Data appear Approximate Lognormal at 10% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.595	Mean in Log Scale	-0.542
SD in Original Scale	0.133	SD in Log Scale	0.219
95% t UCL (assumes normality of ROS data)	0.664	95% Percentile Bootstrap UCL	0.658
95% BCA Bootstrap UCL	0.665	95% Bootstrap t UCL	0.673
95% H-UCL (Log ROS)	0.674		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-0.512	KM Geo Mean	0.599
KM SD (logged)	0.17	95% Critical H Value (KM-Log)	1.821
KM Standard Error of Mean (logged)	0.0516	95% H-UCL (KM -Log)	0.667
KM SD (logged)	0.17	95% Critical H Value (KM-Log)	1.821
KM Standard Error of Mean (logged)	0.0516		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.567	Mean in Log Scale	-0.628
SD in Original Scale	0.181	SD in Log Scale	0.387
95% t UCL (Assumes normality)	0.661	95% H-Stat UCL	0.728

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Suggested UCL to Use

95% KM (t) UCL 0.669

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Cadmium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Cadmium was not processed!

Calcium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	136	Mean	179.6
Maximum	223	Median	181.5
SD	22.03	Std. Error of Mean	6.36
Coefficient of Variation	0.123	Skewness	-0.166

Normal GOF Test

Shapiro Wilk Test Statistic	0.962	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.805	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.15	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.281	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	191	95% Adjusted-CLT UCL (Chen-1995)	189.7
		95% Modified-t UCL (Johnson-1978)	191

Gamma GOF Test

A-D Test Statistic	0.352	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.73	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.162	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.245	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	70.19	k star (bias corrected MLE)	52.7
Theta hat (MLE)	2.558	Theta star (bias corrected MLE)	3.408
nu hat (MLE)	1685	nu star (bias corrected)	1265
MLE Mean (bias corrected)	179.6	MLE Sd (bias corrected)	24.74
		Approximate Chi Square Value (0.05)	1183
Adjusted Level of Significance	0.029	Adjusted Chi Square Value	1171

Assuming Gamma Distribution

95% Approximate Gamma UCL	192	95% Adjusted Gamma UCL	193.9

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.949	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.883	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.173	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.223	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.913	Mean of logged Data	5.183
Maximum of Logged Data	5.407	SD of logged Data	0.126

Assuming Lognormal Distribution

95% H-UCL	192.4	90% Chebyshev (MVUE) UCL	199.3
95% Chebyshev (MVUE) UCL	208.2	97.5% Chebyshev (MVUE) UCL	220.5
99% Chebyshev (MVUE) UCL	244.8		

Nonparametric Distribution Free UCL Statistics
Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	190	95% BCA Bootstrap UCL	189.4
95% Standard Bootstrap UCL	189.4	95% Bootstrap-t UCL	190
95% Hall's Bootstrap UCL	190.6	95% Percentile Bootstrap UCL	189.8
90% Chebyshev(Mean, Sd) UCL	198.7	95% Chebyshev(Mean, Sd) UCL	207.3
97.5% Chebyshev(Mean, Sd) UCL	219.3	99% Chebyshev(Mean, Sd) UCL	242.9

Suggested UCL to Use

95% Student's-t UCL 191

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Chromium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	2
Number of Detects	1	Number of Non-Detects	11
Number of Distinct Detects	1	Number of Distinct Non-Detects	1

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Chromium was not processed!

Cobalt

General Statistics

Total Number of Observations	12	Number of Distinct Observations	3
Number of Detects	2	Number of Non-Detects	10
Number of Distinct Detects	2	Number of Distinct Non-Detects	1
Minimum Detect	0.008	Minimum Non-Detect	0.005
Maximum Detect	0.011	Maximum Non-Detect	0.005
Variance Detects	4.5000E-6	Percent Non-Detects	83.33%
Mean Detects	0.0095	SD Detects	0.00212
Median Detects	0.0095	CV Detects	0.223
Skewness Detects	N/A	Kurtosis Detects	N/A
Mean of Logged Detects	-4.669	SD of Logged Detects	0.225

Warning: Data set has only 2 Detected Values.
This is not enough to compute meaningful or reliable statistics and estimates.

Normal GOF Test on Detects Only
Not Enough Data to Perform GOF Test

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.00575	KM Standard Error of Mean	7.2887E-4
90KM SD	0.00179	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.00706	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.00695	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.00794	95% KM Chebyshev UCL	0.00893
97.5% KM Chebyshev UCL	0.0103	99% KM Chebyshev UCL	0.013

Gamma GOF Tests on Detected Observations Only
Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	39.77	k star (bias corrected MLE)	N/A
Theta hat (MLE)	2.3884E-4	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	159.1	nu star (bias corrected)	N/A
Mean (detects)	0.0095		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.00575	SD (KM)	0.00179
Variance (KM)	3.1875E-6	SE of Mean (KM)	7.2887E-4
k hat (KM)	10.37	k star (KM)	7.835
nu hat (KM)	248.9	nu star (KM)	188
theta hat (KM)	5.5435E-4	theta star (KM)	7.3389E-4
80% gamma percentile (KM)	0.00737	90% gamma percentile (KM)	0.00849
95% gamma percentile (KM)	0.00949	99% gamma percentile (KM)	0.0116

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.029
Approximate Chi Square Value (188.04, α)	157.3	Adjusted Chi Square Value (188.04, β)	153
95% KM Approximate Gamma UCL	0.00687	95% KM Adjusted Gamma UCL	0.00707

Lognormal GOF Test on Detected Observations Only
Not Enough Data to Perform GOF Test

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.00374	Mean in Log Scale	-5.859
SD in Original Scale	0.00304	SD in Log Scale	0.767
95% t UCL (assumes normality of ROS data)	0.00532	95% Percentile Bootstrap UCL	0.00523
95% BCA Bootstrap UCL	0.00556	95% Bootstrap t UCL	0.00641
95% H-UCL (Log ROS)	0.00686		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-5.193	KM Geo Mean	0.00555
KM SD (logged)	0.243	95% Critical H Value (KM-Log)	1.877
KM Standard Error of Mean (logged)	0.0993	95% H-UCL (KM -Log)	0.00656
KM SD (logged)	0.243	95% Critical H Value (KM-Log)	1.877
KM Standard Error of Mean (logged)	0.0993		

DL/2 Statistics

DL/2 Normal

Mean in Original Scale	0.00367
SD in Original Scale	0.0028
95% t UCL (Assumes normality)	0.00512

DL/2 Log-Transformed

Mean in Log Scale	-5.771
SD in Log Scale	0.519
95% H-Stat UCL	0.005

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics
Data do not follow a Discernible Distribution

Suggested UCL to Use

95% KM (t) UCL	0.00706

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Copper

General Statistics

Total Number of Observations	12	Number of Distinct Observations	7
Number of Detects	11	Number of Non-Detects	1
Number of Distinct Detects	7	Number of Distinct Non-Detects	1
Minimum Detect	0.5	Minimum Non-Detect	0.5
Maximum Detect	7.6	Maximum Non-Detect	0.5
Variance Detects	4.36	Percent Non-Detects	8.333%
Mean Detects	1.327	SD Detects	2.088
Median Detects	0.7	CV Detects	1.573
Skewness Detects	3.273	Kurtosis Detects	10.78
Mean of Logged Detects	-0.167	SD of Logged Detects	0.766

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.42	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Detected Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.452	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Detected Data Not Normal at 1% Significance Level

Detected Data Not Normal at 1% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1.258	KM Standard Error of Mean	0.581
90KM SD	1.92	95% KM (BCA) UCL	2.417
95% KM (t) UCL	2.302	95% KM (Percentile Bootstrap) UCL	2.392
95% KM (z) UCL	2.214	95% KM Bootstrap t UCL	11.36
90% KM Chebyshev UCL	3.002	95% KM Chebyshev UCL	3.792
97.5% KM Chebyshev UCL	4.888	99% KM Chebyshev UCL	7.042

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.262	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.747	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.369	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.261	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.251	k star (bias corrected MLE)	0.971
Theta hat (MLE)	1.061	Theta star (bias corrected MLE)	1.368
nu hat (MLE)	27.53	nu star (bias corrected)	21.35
Mean (detects)	1.327		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1.218
Maximum	7.6	Median	0.65
SD	2.027	CV	1.665
k hat (MLE)	0.808	k star (bias corrected MLE)	0.661
Theta hat (MLE)	1.507	Theta star (bias corrected MLE)	1.841
nu hat (MLE)	19.39	nu star (bias corrected)	15.88
Adjusted Level of Significance (β)	0.029		
Approximate Chi Square Value (15.88, α)	7.874	Adjusted Chi Square Value (15.88, β)	7.031
95% Gamma Approximate UCL	2.455	95% Gamma Adjusted UCL	2.749

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1.258	SD (KM)	1.92
Variance (KM)	3.686	SE of Mean (KM)	0.581
k hat (KM)	0.43	k star (KM)	0.378
nu hat (KM)	10.31	nu star (KM)	9.066
theta hat (KM)	2.929	theta star (KM)	3.331
80% gamma percentile (KM)	2.016	90% gamma percentile (KM)	3.589
95% gamma percentile (KM)	5.332	99% gamma percentile (KM)	9.741

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (9.07, α)	3.367	Adjusted Chi Square Value (9.07, β)	2.858
95% KM Approximate Gamma UCL	3.388	95% KM Adjusted Gamma UCL	3.991

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.633	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.876	Detected Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.286	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.231	Detected Data Not Lognormal at 10% Significance Level

Detected Data Not Lognormal at 10% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1.232	Mean in Log Scale	-0.293
SD in Original Scale	2.018	SD in Log Scale	0.851
95% t UCL (assumes normality of ROS data)	2.278	95% Percentile Bootstrap UCL	2.357
95% BCA Bootstrap UCL	2.948	95% Bootstrap t UCL	8.6
95% H-UCL (Log ROS)	2.118		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-0.211	KM Geo Mean	0.81
KM SD (logged)	0.715	95% Critical H Value (KM-Log)	2.436
KM Standard Error of Mean (logged)	0.216	95% H-UCL (KM -Log)	1.767
KM SD (logged)	0.715	95% Critical H Value (KM-Log)	2.436
KM Standard Error of Mean (logged)	0.216		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	1.238	Mean in Log Scale	-0.269
SD in Original Scale	2.015	SD in Log Scale	0.811
95% t UCL (Assumes normality)	2.282	95% H-Stat UCL	2

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Suggested UCL to Use

95% KM (t) UCL 2.302

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Iron

General Statistics

Total Number of Observations	12	Number of Distinct Observations	9
		Number of Missing Observations	0
Minimum	5	Mean	17.25
Maximum	35	Median	13
SD	12	Std. Error of Mean	3.464
Coefficient of Variation	0.696	Skewness	0.389

Normal GOF Test

Shapiro Wilk Test Statistic	0.846	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.805	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.199	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.281	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	23.47	95% Adjusted-CLT UCL (Chen-1995)	23.36
		95% Modified-t UCL (Johnson-1978)	23.54

Gamma GOF Test

A-D Test Statistic	0.666	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.741	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.183	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.249	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	2.026	k star (bias corrected MLE)	1.575
Theta hat (MLE)	8.515	Theta star (bias corrected MLE)	10.95
nu hat (MLE)	48.62	nu star (bias corrected)	37.8
MLE Mean (bias corrected)	17.25	MLE Sd (bias corrected)	13.75
		Approximate Chi Square Value (0.05)	24.72
Adjusted Level of Significance	0.029	Adjusted Chi Square Value	23.12

Assuming Gamma Distribution

95% Approximate Gamma UCL	26.38	95% Adjusted Gamma UCL	28.21

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.861	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.883	Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.173	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.223	Data appear Lognormal at 10% Significance Level

Data appear Approximate Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.609	Mean of logged Data	2.581
Maximum of Logged Data	3.555	SD of logged Data	0.796

Assuming Lognormal Distribution

95% H-UCL	33.58	90% Chebyshev (MVUE) UCL	30.29
95% Chebyshev (MVUE) UCL	36.05	97.5% Chebyshev (MVUE) UCL	44.06
99% Chebyshev (MVUE) UCL	59.77		

Nonparametric Distribution Free UCL Statistics
Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	22.95	95% BCA Bootstrap UCL	22.92
95% Standard Bootstrap UCL	22.58	95% Bootstrap-t UCL	23.88
95% Hall's Bootstrap UCL	22.22	95% Percentile Bootstrap UCL	22.67
90% Chebyshev(Mean, Sd) UCL	27.64	95% Chebyshev(Mean, Sd) UCL	32.35
97.5% Chebyshev(Mean, Sd) UCL	38.89	99% Chebyshev(Mean, Sd) UCL	51.72

Suggested UCL to Use

95% Student's-t UCL 23.47

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Lead

General Statistics

Total Number of Observations	12	Number of Distinct Observations	3
Number of Detects	2	Number of Non-Detects	10
Number of Distinct Detects	2	Number of Distinct Non-Detects	1
Minimum Detect	0.1	Minimum Non-Detect	0.03
Maximum Detect	0.13	Maximum Non-Detect	0.03
Variance Detects	4.5000E-4	Percent Non-Detects	83.33%
Mean Detects	0.115	SD Detects	0.0212
Median Detects	0.115	CV Detects	0.184
Skewness Detects	N/A	Kurtosis Detects	N/A
Mean of Logged Detects	-2.171	SD of Logged Detects	0.186

Warning: Data set has only 2 Detected Values.
This is not enough to compute meaningful or reliable statistics and estimates.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Normal GOF Test on Detects Only
Not Enough Data to Perform GOF Test

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.0442	KM Standard Error of Mean	0.0132
90KM SD	0.0323	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.0678	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.0658	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.0837	95% KM Chebyshev UCL	0.102
97.5% KM Chebyshev UCL	0.126	99% KM Chebyshev UCL	0.175

Gamma GOF Tests on Detected Observations Only
Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	58.44	k star (bias corrected MLE)	N/A
Theta hat (MLE)	0.00197	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	233.8	nu star (bias corrected)	N/A
Mean (detects)	0.115		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.0442	SD (KM)	0.0323
Variance (KM)	0.00104	SE of Mean (KM)	0.0132
k hat (KM)	1.874	k star (KM)	1.461
nu hat (KM)	44.97	nu star (KM)	35.06
theta hat (KM)	0.0236	theta star (KM)	0.0302
80% gamma percentile (KM)	0.0685	90% gamma percentile (KM)	0.0926
95% gamma percentile (KM)	0.116	99% gamma percentile (KM)	0.169

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.029
Approximate Chi Square Value (35.06, α)	22.52	Adjusted Chi Square Value (35.06, β)	20.99
95% KM Approximate Gamma UCL	0.0688	95% KM Adjusted Gamma UCL	0.0738

Lognormal GOF Test on Detected Observations Only
Not Enough Data to Perform GOF Test

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.0515	Mean in Log Scale	-3.152
SD in Original Scale	0.0342	SD in Log Scale	0.632
95% t UCL (assumes normality of ROS data)	0.0692	95% Percentile Bootstrap UCL	0.0683
95% BCA Bootstrap UCL	0.071	95% Bootstrap t UCL	0.0783
95% H-UCL (Log ROS)	0.0812		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-3.284	KM Geo Mean	0.0375
KM SD (logged)	0.5	95% Critical H Value (KM-Log)	2.142
KM Standard Error of Mean (logged)	0.204	95% H-UCL (KM -Log)	0.0587
KM SD (logged)	0.5	95% Critical H Value (KM-Log)	2.142
KM Standard Error of Mean (logged)	0.204		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.0317	Mean in Log Scale	-3.862
SD in Original Scale	0.0394	SD in Log Scale	0.791
95% t UCL (Assumes normality)	0.0521	95% H-Stat UCL	0.053

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics
Data do not follow a Discernible Distribution

Suggested UCL to Use

95% KM (t) UCL	0.0678

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Magnesium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Magnesium was not processed!

Manganese

General Statistics

Total Number of Observations	12	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	23.8	Mean	66.48
Maximum	123	Median	52.9
SD	32.38	Std. Error of Mean	9.347
Coefficient of Variation	0.487	Skewness	0.691

Normal GOF Test

Shapiro Wilk Test Statistic	0.876	Shapiro Wilk GOF Test	
1% Shapiro Wilk Critical Value	0.805	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.272	Lilliefors GOF Test	
1% Lilliefors Critical Value	0.281	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL 83.27

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	83.85
95% Modified-t UCL (Johnson-1978)	83.58

Gamma GOF Test

A-D Test Statistic	0.572	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.733	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.223	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.246	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	4.754	k star (bias corrected MLE)	3.621
Theta hat (MLE)	13.99	Theta star (bias corrected MLE)	18.36
nu hat (MLE)	114.1	nu star (bias corrected)	86.9
MLE Mean (bias corrected)	66.48	MLE Sd (bias corrected)	34.94
		Approximate Chi Square Value (0.05)	66.41
Adjusted Level of Significance	0.029	Adjusted Chi Square Value	63.68

Assuming Gamma Distribution

95% Approximate Gamma UCL	87	95% Adjusted Gamma UCL	90.72

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.928	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.883	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.192	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.223	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	3.17	Mean of logged Data	4.088
Maximum of Logged Data	4.812	SD of logged Data	0.492

Assuming Lognormal Distribution

95% H-UCL	92.26	90% Chebyshev (MVUE) UCL	95.52
95% Chebyshev (MVUE) UCL	108.7	97.5% Chebyshev (MVUE) UCL	126.9
99% Chebyshev (MVUE) UCL	162.7		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	81.86	95% BCA Bootstrap UCL	83.75
95% Standard Bootstrap UCL	81.37	95% Bootstrap-t UCL	87.18
95% Hall's Bootstrap UCL	81.56	95% Percentile Bootstrap UCL	81.82
90% Chebyshev(Mean, Sd) UCL	94.52	95% Chebyshev(Mean, Sd) UCL	107.2
97.5% Chebyshev(Mean, Sd) UCL	124.9	99% Chebyshev(Mean, Sd) UCL	159.5

Suggested UCL to Use

95% Student's-t UCL 83.27

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Mercury

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Mercury was not processed!

Molybdenum

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Molybdenum was not processed!

Nickel

General Statistics

Total Number of Observations	12	Number of Distinct Observations	6
Number of Detects	9	Number of Non-Detects	3
Number of Distinct Detects	5	Number of Distinct Non-Detects	1
Minimum Detect	0.06	Minimum Non-Detect	0.05
Maximum Detect	0.3	Maximum Non-Detect	0.05
Variance Detects	0.00603	Percent Non-Detects	25%
Mean Detects	0.0967	SD Detects	0.0776
Median Detects	0.07	CV Detects	0.803
Skewness Detects	2.808	Kurtosis Detects	8.103
Mean of Logged Detects	-2.499	SD of Logged Detects	0.521

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.539	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.764	Detected Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.372	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.316	Detected Data Not Normal at 1% Significance Level

Detected Data Not Normal at 1% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.085	KM Standard Error of Mean	0.0204
90KM SD	0.0665	95% KM (BCA) UCL	0.123
95% KM (t) UCL	0.122	95% KM (Percentile Bootstrap) UCL	0.122
95% KM (z) UCL	0.119	95% KM Bootstrap t UCL	0.23
90% KM Chebyshev UCL	0.146	95% KM Chebyshev UCL	0.174
97.5% KM Chebyshev UCL	0.212	99% KM Chebyshev UCL	0.288

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.495	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.726	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.308	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.281	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	3.243	k star (bias corrected MLE)	2.236
Theta hat (MLE)	0.0298	Theta star (bias corrected MLE)	0.0432
nu hat (MLE)	58.37	nu star (bias corrected)	40.25
Mean (detects)	0.0967		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.075
Maximum	0.3	Median	0.06
SD	0.0769	CV	1.026
k hat (MLE)	1.291	k star (bias corrected MLE)	1.024
Theta hat (MLE)	0.0581	Theta star (bias corrected MLE)	0.0733
nu hat (MLE)	30.98	nu star (bias corrected)	24.57
Adjusted Level of Significance (β)	0.029		
Approximate Chi Square Value (24.57, α)	14.28	Adjusted Chi Square Value (24.57, β)	13.1
95% Gamma Approximate UCL	0.129	95% Gamma Adjusted UCL	0.141

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.085	SD (KM)	0.0665
Variance (KM)	0.00443	SE of Mean (KM)	0.0204
k hat (KM)	1.633	k star (KM)	1.28
nu hat (KM)	39.19	nu star (KM)	30.72
theta hat (KM)	0.0521	theta star (KM)	0.0664
80% gamma percentile (KM)	0.134	90% gamma percentile (KM)	0.184
95% gamma percentile (KM)	0.234	99% gamma percentile (KM)	0.347

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (30.72, α)	19.06	Adjusted Chi Square Value (30.72, β)	17.67
95% KM Approximate Gamma UCL	0.137	95% KM Adjusted Gamma UCL	0.148

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.672	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.859	Detected Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.288	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.252	Detected Data Not Lognormal at 10% Significance Level

Detected Data Not Lognormal at 10% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.0793	Mean in Log Scale	-2.78
SD in Original Scale	0.0733	SD in Log Scale	0.683
95% t UCL (assumes normality of ROS data)	0.117	95% Percentile Bootstrap UCL	0.116
95% BCA Bootstrap UCL	0.134	95% Bootstrap t UCL	0.171
95% H-UCL (Log ROS)	0.128		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-2.623	KM Geo Mean	0.0726
KM SD (logged)	0.477	95% Critical H Value (KM-Log)	2.113
KM Standard Error of Mean (logged)	0.146	95% H-UCL (KM -Log)	0.11
KM SD (logged)	0.477	95% Critical H Value (KM-Log)	2.113
KM Standard Error of Mean (logged)	0.146		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.0788	Mean in Log Scale	-2.796
SD in Original Scale	0.0737	SD in Log Scale	0.698
95% t UCL (Assumes normality)	0.117	95% H-Stat UCL	0.129

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

Suggested UCL to Use

95% KM (t) UCL	0.122

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Phosphorus

General Statistics

Total Number of Observations	12	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	98	Mean	126.9
Maximum	167	Median	119
SD	24.19	Std. Error of Mean	6.982
Coefficient of Variation	0.191	Skewness	0.504

Normal GOF Test

Shapiro Wilk Test Statistic	0.907	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.805	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.196	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.281	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	139.5	95% Adjusted-CLT UCL (Chen-1995)	139.5
		95% Modified-t UCL (Johnson-1978)	139.6

Gamma GOF Test

A-D Test Statistic	0.448	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.731	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.182	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.245	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	31.05	k star (bias corrected MLE)	23.34
Theta hat (MLE)	4.088	Theta star (bias corrected MLE)	5.437
nu hat (MLE)	745.2	nu star (bias corrected)	560.2
MLE Mean (bias corrected)	126.9	MLE Sd (bias corrected)	26.27
		Approximate Chi Square Value (0.05)	506.3
Adjusted Level of Significance	0.029	Adjusted Chi Square Value	498.5

Assuming Gamma Distribution

95% Approximate Gamma UCL	140.4	95% Adjusted Gamma UCL	142.6

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.922	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.883	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.168	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.223	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.585	Mean of logged Data	4.827
Maximum of Logged Data	5.118	SD of logged Data	0.187

Assuming Lognormal Distribution

95% H-UCL	140.9	90% Chebyshev (MVUE) UCL	147.5
95% Chebyshev (MVUE) UCL	156.8	97.5% Chebyshev (MVUE) UCL	169.7
99% Chebyshev (MVUE) UCL	195.2		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	138.4	95% BCA Bootstrap UCL	138.8
95% Standard Bootstrap UCL	137.8	95% Bootstrap-t UCL	141.1
95% Hall's Bootstrap UCL	137.9	95% Percentile Bootstrap UCL	138.2
90% Chebyshev(Mean, Sd) UCL	147.9	95% Chebyshev(Mean, Sd) UCL	157.4
97.5% Chebyshev(Mean, Sd) UCL	170.5	99% Chebyshev(Mean, Sd) UCL	196.4

Suggested UCL to Use

95% Student's-t UCL 139.5

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Potassium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	627	Mean	775.8
Maximum	911	Median	790.5
SD	97.62	Std. Error of Mean	28.18
Coefficient of Variation	0.126	Skewness	-0.252

Normal GOF Test

Shapiro Wilk Test Statistic	0.928	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.805	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.181	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.281	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	826.4	95% Adjusted-CLT UCL (Chen-1995)	820
		95% Modified-t UCL (Johnson-1978)	826.1

Gamma GOF Test

A-D Test Statistic	0.424	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.73	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.193	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.245	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma Statistics

k hat (MLE)	67.04	k star (bias corrected MLE)	50.34
Theta hat (MLE)	11.57	Theta star (bias corrected MLE)	15.41
nu hat (MLE)	1609	nu star (bias corrected)	1208
MLE Mean (bias corrected)	775.8	MLE Sd (bias corrected)	109.4
		Approximate Chi Square Value (0.05)	1128
Adjusted Level of Significance	0.029	Adjusted Chi Square Value	1117

Assuming Gamma Distribution

95% Approximate Gamma UCL	830.6	95% Adjusted Gamma UCL	839.4

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.922	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.883	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.184	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.223	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	6.441	Mean of logged Data	6.646
Maximum of Logged Data	6.815	SD of logged Data	0.129

Assuming Lognormal Distribution

95% H-UCL	832.4	90% Chebyshev (MVUE) UCL	862.6
95% Chebyshev (MVUE) UCL	901.8	97.5% Chebyshev (MVUE) UCL	956.3
99% Chebyshev (MVUE) UCL	1063		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	822.2	95% BCA Bootstrap UCL	820.1
95% Standard Bootstrap UCL	820.6	95% Bootstrap-t UCL	824
95% Hall's Bootstrap UCL	817.9	95% Percentile Bootstrap UCL	820.7
90% Chebyshev(Mean, Sd) UCL	860.4	95% Chebyshev(Mean, Sd) UCL	898.7
97.5% Chebyshev(Mean, Sd) UCL	951.8	99% Chebyshev(Mean, Sd) UCL	1056

Suggested UCL to Use

95% Student's-t UCL	826.4

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Selenium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Selenium was not processed!

Silver

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Silver was not processed!

Sodium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Sodium was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Strontium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	3
Number of Detects	3	Number of Non-Detects	9
Number of Distinct Detects	3	Number of Distinct Non-Detects	1
Minimum Detect	0.5	Minimum Non-Detect	0.5
Maximum Detect	1.3	Maximum Non-Detect	0.5
Variance Detects	0.173	Percent Non-Detects	75%
Mean Detects	0.833	SD Detects	0.416
Median Detects	0.7	CV Detects	0.5
Skewness Detects	1.293	Kurtosis Detects	N/A
Mean of Logged Detects	-0.262	SD of Logged Detects	0.485

Warning: Data set has only 3 Detected Values.
This is not enough to compute meaningful or reliable statistics and estimates.

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.923	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.753	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.292	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.429	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level
Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.583	KM Standard Error of Mean	0.0788
90KM SD	0.223	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.725	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.713	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.82	95% KM Chebyshev UCL	0.927
97.5% KM Chebyshev UCL	1.076	99% KM Chebyshev UCL	1.368

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.306	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.637	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.283	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.433	Detected data appear Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	6.399	k star (bias corrected MLE)	N/A
Theta hat (MLE)	0.13	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	38.4	nu star (bias corrected)	N/A
Mean (detects)	0.833		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.216
Maximum	1.3	Median	0.01
SD	0.413	CV	1.911
k hat (MLE)	0.34	k star (bias corrected MLE)	0.311
Theta hat (MLE)	0.635	Theta star (bias corrected MLE)	0.695
nu hat (MLE)	8.163	nu star (bias corrected)	7.456
Adjusted Level of Significance (β)	0.029		
Approximate Chi Square Value (7.46, α)	2.424	Adjusted Chi Square Value (7.46, β)	2.009
95% Gamma Approximate UCL	0.664	95% Gamma Adjusted UCL	N/A

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.583	SD (KM)	0.223
Variance (KM)	0.0497	SE of Mean (KM)	0.0788
k hat (KM)	6.844	k star (KM)	5.188
nu hat (KM)	164.2	nu star (KM)	124.5
theta hat (KM)	0.0852	theta star (KM)	0.112
80% gamma percentile (KM)	0.781	90% gamma percentile (KM)	0.926
95% gamma percentile (KM)	1.058	99% gamma percentile (KM)	1.337

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (124.52, α)	99.75	Adjusted Chi Square Value (124.52, β)	96.37
95% KM Approximate Gamma UCL	0.728	95% KM Adjusted Gamma UCL	0.754

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.972	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.789	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.244	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.389	Detected Data appear Lognormal at 10% Significance Level

Detected Data appear Lognormal at 10% Significance Level
Note GOF tests may be unreliable for small sample sizes

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.286	Mean in Log Scale	-2.015
SD in Original Scale	0.381	SD in Log Scale	1.333
95% t UCL (assumes normality of ROS data)	0.483	95% Percentile Bootstrap UCL	0.472
95% BCA Bootstrap UCL	0.545	95% Bootstrap t UCL	0.697
95% H-UCL (Log ROS)	1.354		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-0.585	KM Geo Mean	0.557
KM SD (logged)	0.272	95% Critical H Value (KM-Log)	1.902
KM Standard Error of Mean (logged)	0.0961	95% H-UCL (KM -Log)	0.675
KM SD (logged)	0.272	95% Critical H Value (KM-Log)	1.902
KM Standard Error of Mean (logged)	0.0961		

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:40:18 PM
From File	Berries UCL inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.396	Mean in Log Scale	-1.105
SD in Original Scale	0.318	SD in Log Scale	0.549
95% t UCL (Assumes normality)	0.561	95% H-Stat UCL	0.554

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL 0.725

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Thallium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Thallium was not processed!

Tin

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Tin was not processed!

Titanium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	2
Number of Detects	1	Number of Non-Detects	11
Number of Distinct Detects	1	Number of Distinct Non-Detects	1

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Titanium was not processed!

Uranium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Uranium was not processed!

Vanadium

General Statistics

Total Number of Observations	12	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	12
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Vanadium was not processed!

Zinc

General Statistics

Total Number of Observations	12	Number of Distinct Observations	2
Number of Detects	1	Number of Non-Detects	11
Number of Distinct Detects	1	Number of Distinct Non-Detects	1

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Zinc was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Moisture

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	48	Mean	50.14
Maximum	54.31	Median	49.91
SD	1.768	Std. Error of Mean	0.533
Coefficient of Variation	0.0353	Skewness	1.25

Normal GOF Test

Shapiro Wilk Test Statistic	0.908	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.162	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	51.11	95% Adjusted-CLT UCL (Chen-1995)	51.23
		95% Modified-t UCL (Johnson-1978)	51.14

Gamma GOF Test

A-D Test Statistic	0.351	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.726	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.15	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.254	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	904.8	k star (bias corrected MLE)	658.1
Theta hat (MLE)	0.0554	Theta star (bias corrected MLE)	0.0762
nu hat (MLE)	19905	nu star (bias corrected)	14478
MLE Mean (bias corrected)	50.14	MLE Sd (bias corrected)	1.954
		Approximate Chi Square Value (0.05)	14199
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	14154

Assuming Gamma Distribution

95% Approximate Gamma UCL	51.12	95% Adjusted Gamma UCL	51.29

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.919	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.155	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	3.871	Mean of logged Data	3.914
Maximum of Logged Data	3.995	SD of logged Data	0.0347

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	51.71
95% Chebyshev (MVUE) UCL	52.42	97.5% Chebyshev (MVUE) UCL	53.41
99% Chebyshev (MVUE) UCL	55.36		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	51.02	95% BCA Bootstrap UCL	51.14
95% Standard Bootstrap UCL	50.95	95% Bootstrap-t UCL	51.4
95% Hall's Bootstrap UCL	51.99	95% Percentile Bootstrap UCL	51
90% Chebyshev(Mean, Sd) UCL	51.74	95% Chebyshev(Mean, Sd) UCL	52.46
97.5% Chebyshev(Mean, Sd) UCL	53.47	99% Chebyshev(Mean, Sd) UCL	55.44

Suggested UCL to Use

95% Student's-t UCL 51.11

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Antimony

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Antimony was not processed!

Arsenic

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Barium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	34.8	Mean	40.29
Maximum	44.9	Median	41.4
SD	3.703	Std. Error of Mean	1.116
Coefficient of Variation	0.0919	Skewness	-0.399

Normal GOF Test

Shapiro Wilk Test Statistic	0.893	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.177	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	42.31	95% Adjusted-CLT UCL (Chen-1995)	41.98
		95% Modified-t UCL (Johnson-1978)	42.29

Gamma GOF Test

A-D Test Statistic	0.588	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.726	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.184	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.254	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	127.1	k star (bias corrected MLE)	92.49
Theta hat (MLE)	0.317	Theta star (bias corrected MLE)	0.436
nu hat (MLE)	2796	nu star (bias corrected)	2035
MLE Mean (bias corrected)	40.29	MLE Sd (bias corrected)	4.19
		Approximate Chi Square Value (0.05)	1931
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	1914

Assuming Gamma Distribution

95% Approximate Gamma UCL	42.46	95% Adjusted Gamma UCL	42.82

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.886	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.175	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	3.55	Mean of logged Data	3.692
Maximum of Logged Data	3.804	SD of logged Data	0.0937

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	43.71
95% Chebyshev (MVUE) UCL	45.26	97.5% Chebyshev (MVUE) UCL	47.41
99% Chebyshev (MVUE) UCL	51.63		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	42.13	95% BCA Bootstrap UCL	41.93
95% Standard Bootstrap UCL	42.06	95% Bootstrap-t UCL	42.25
95% Hall's Bootstrap UCL	41.89	95% Percentile Bootstrap UCL	42.02
90% Chebyshev(Mean, Sd) UCL	43.64	95% Chebyshev(Mean, Sd) UCL	45.16
97.5% Chebyshev(Mean, Sd) UCL	47.26	99% Chebyshev(Mean, Sd) UCL	51.4

Suggested UCL to Use

95% Student's-t UCL	42.31

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Beryllium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Beryllium was not processed!

Bismuth

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Bismuth was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Boron (Total)

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	2.7	Mean	5.009
Maximum	7.5	Median	5.1
SD	1.39	Std. Error of Mean	0.419
Coefficient of Variation	0.277	Skewness	0.105

Normal GOF Test

Shapiro Wilk Test Statistic	0.993	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.105	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	5.768	95% Adjusted-CLT UCL (Chen-1995)	5.712
		95% Modified-t UCL (Johnson-1978)	5.771

Gamma GOF Test

A-D Test Statistic	0.143	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.729	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.141	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.255	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	13.47	k star (bias corrected MLE)	9.857
Theta hat (MLE)	0.372	Theta star (bias corrected MLE)	0.508
nu hat (MLE)	296.3	nu star (bias corrected)	216.9
MLE Mean (bias corrected)	5.009	MLE Sd (bias corrected)	1.595
		Approximate Chi Square Value (0.05)	183.8
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	178.8

Assuming Gamma Distribution

95% Approximate Gamma UCL	5.911	95% Adjusted Gamma UCL	6.075

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.977	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.157	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.993	Mean of logged Data	1.574
Maximum of Logged Data	2.015	SD of logged Data	0.294

Assuming Lognormal Distribution

95% H-UCL	6.037	90% Chebyshev (MVUE) UCL	6.364
95% Chebyshev (MVUE) UCL	6.974	97.5% Chebyshev (MVUE) UCL	7.821
99% Chebyshev (MVUE) UCL	9.484		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	5.698	95% BCA Bootstrap UCL	5.655
95% Standard Bootstrap UCL	5.658	95% Bootstrap-t UCL	5.761
95% Hall's Bootstrap UCL	5.761	95% Percentile Bootstrap UCL	5.673
90% Chebyshev(Mean, Sd) UCL	6.266	95% Chebyshev(Mean, Sd) UCL	6.835
97.5% Chebyshev(Mean, Sd) UCL	7.626	99% Chebyshev(Mean, Sd) UCL	9.178

Suggested UCL to Use

95% Student's-t UCL 5.768

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Cadmium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Cadmium was not processed!

Calcium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	2470	Mean	2676
Maximum	3110	Median	2570
SD	217.3	Std. Error of Mean	65.52
Coefficient of Variation	0.0812	Skewness	0.966

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Normal GOF Test

Shapiro Wilk Test Statistic	0.853	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.233	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL 2795

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	2805
95% Modified-t UCL (Johnson-1978)	2798

Gamma GOF Test

A-D Test Statistic	0.722	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.726	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.239	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.254	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	173.3	k star (bias corrected MLE)	126.1
Theta hat (MLE)	15.44	Theta star (bias corrected MLE)	21.22
nu hat (MLE)	3813	nu star (bias corrected)	2775
MLE Mean (bias corrected)	2676	MLE Sd (bias corrected)	238.3
		Approximate Chi Square Value (0.05)	2653
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	2634

Assuming Gamma Distribution

95% Approximate Gamma UCL	2799	95% Adjusted Gamma UCL	2819

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.862	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.229	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Approximate Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	7.812	Mean of logged Data	7.889
Maximum of Logged Data	8.042	SD of logged Data	0.079

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	2867
95% Chebyshev (MVUE) UCL	2954	97.5% Chebyshev (MVUE) UCL	3074
99% Chebyshev (MVUE) UCL	3311		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	2784	95% BCA Bootstrap UCL	2804
95% Standard Bootstrap UCL	2781	95% Bootstrap-t UCL	2848
95% Hall's Bootstrap UCL	2787	95% Percentile Bootstrap UCL	2782
90% Chebyshev(Mean, Sd) UCL	2873	95% Chebyshev(Mean, Sd) UCL	2962
97.5% Chebyshev(Mean, Sd) UCL	3086	99% Chebyshev(Mean, Sd) UCL	3328

Suggested UCL to Use

95% Student's-t UCL 2795

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Chromium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	2
Number of Detects	3	Number of Non-Detects	8
Number of Distinct Detects	2	Number of Distinct Non-Detects	1
Minimum Detect	0.3	Minimum Non-Detect	0.3
Maximum Detect	0.4	Maximum Non-Detect	0.3
Variance Detects	0.00333	Percent Non-Detects	72.73%
Mean Detects	0.367	SD Detects	0.0577
Median Detects	0.4	CV Detects	0.157
Skewness Detects	-1.732	Kurtosis Detects	N/A
Mean of Logged Detects	-1.012	SD of Logged Detects	0.166

Warning: Data set has only 3 Detected Values.
This is not enough to compute meaningful or reliable statistics and estimates.

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.75	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.753	Detected Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.385	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.429	Detected Data appear Normal at 1% Significance Level

Detected Data appear Approximate Normal at 1% Significance Level
Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.318	KM Standard Error of Mean	0.0142
90KM SD	0.0386	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.344	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.342	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.361	95% KM Chebyshev UCL	0.38
97.5% KM Chebyshev UCL	0.407	99% KM Chebyshev UCL	0.46

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.619	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.634	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.427	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.431	Detected data appear Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma Statistics on Detected Data Only

k hat (MLE)	56.46	k star (bias corrected MLE)	N/A
Theta hat (MLE)	0.00649	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	338.7	nu star (bias corrected)	N/A
Mean (detects)	0.367		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.0506	Mean	0.221
Maximum	0.4	Median	0.211
SD	0.114	CV	0.515
k hat (MLE)	3.493	k star (bias corrected MLE)	2.601
Theta hat (MLE)	0.0634	Theta star (bias corrected MLE)	0.0851
nu hat (MLE)	76.84	nu star (bias corrected)	57.21
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (57.21, α)	40.83	Adjusted Chi Square Value (57.21, β)	38.58
95% Gamma Approximate UCL	0.31	95% Gamma Adjusted UCL	N/A

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.318	SD (KM)	0.0386
Variance (KM)	0.00149	SE of Mean (KM)	0.0142
k hat (KM)	68.06	k star (KM)	49.56
nu hat (KM)	1497	nu star (KM)	1090
theta hat (KM)	0.00468	theta star (KM)	0.00642
80% gamma percentile (KM)	0.355	90% gamma percentile (KM)	0.377
95% gamma percentile (KM)	0.396	99% gamma percentile (KM)	0.433

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (N/A, α)	1015	Adjusted Chi Square Value (N/A, β)	1003
95% KM Approximate Gamma UCL	0.342	95% KM Adjusted Gamma UCL	0.346

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.75	**Shapiro Wilk GOF Test**	
10% Shapiro Wilk Critical Value	0.789	Detected Data Not Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.385	**Lilliefors GOF Test**	
10% Lilliefors Critical Value	0.389	Detected Data appear Lognormal at 10% Significance Level	

Detected Data appear Approximate Lognormal at 10% Significance Level
Note GOF tests may be unreliable for small sample sizes

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.245	Mean in Log Scale	-1.465
SD in Original Scale	0.0908	SD in Log Scale	0.362
95% t UCL (assumes normality of ROS data)	0.295	95% Percentile Bootstrap UCL	0.292
95% BCA Bootstrap UCL	0.295	95% Bootstrap t UCL	0.305
95% H-UCL (Log ROS)	0.31		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-1.152	KM Geo Mean	0.316
KM SD (logged)	0.111	95% Critical H Value (KM-Log)	1.794
KM Standard Error of Mean (logged)	0.041	95% H-UCL (KM -Log)	0.339
KM SD (logged)	0.111	95% Critical H Value (KM-Log)	1.794
KM Standard Error of Mean (logged)	0.041		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.209	Mean in Log Scale	-1.656
SD in Original Scale	0.104	SD in Log Scale	0.42
95% t UCL (Assumes normality)	0.266	95% H-Stat UCL	0.275

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL	0.344

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Cobalt

General Statistics

Total Number of Observations	11	Number of Distinct Observations	9
		Number of Missing Observations	0
Minimum	0.017	Mean	0.0259
Maximum	0.046	Median	0.025
SD	0.00855	Std. Error of Mean	0.00258
Coefficient of Variation	0.33	Skewness	1.401

Normal GOF Test

Shapiro Wilk Test Statistic	0.877	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.223	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	0.0306	95% Adjusted-CLT UCL (Chen-1995)	0.0313
		95% Modified-t UCL (Johnson-1978)	0.0308

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma GOF Test

A-D Test Statistic	0.329	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.729	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.184	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.255	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	11.69	k star (bias corrected MLE)	8.56
Theta hat (MLE)	0.00222	Theta star (bias corrected MLE)	0.00303
nu hat (MLE)	257.1	nu star (bias corrected)	188.3
MLE Mean (bias corrected)	0.0259	MLE Sd (bias corrected)	0.00886
		Approximate Chi Square Value (0.05)	157.6
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	153

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.031	95% Adjusted Gamma UCL	0.0319

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.946	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.165	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-4.075	Mean of logged Data	-3.697
Maximum of Logged Data	-3.079	SD of logged Data	0.301

Assuming Lognormal Distribution

95% H-UCL	0.0312	90% Chebyshev (MVUE) UCL	0.0329
95% Chebyshev (MVUE) UCL	0.0361	97.5% Chebyshev (MVUE) UCL	0.0406
99% Chebyshev (MVUE) UCL	0.0493		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	0.0301	95% BCA Bootstrap UCL	0.031
95% Standard Bootstrap UCL	0.0299	95% Bootstrap-t UCL	0.0333
95% Hall's Bootstrap UCL	0.0526	95% Percentile Bootstrap UCL	0.03
90% Chebyshev(Mean, Sd) UCL	0.0336	95% Chebyshev(Mean, Sd) UCL	0.0371
97.5% Chebyshev(Mean, Sd) UCL	0.042	99% Chebyshev(Mean, Sd) UCL	0.0516

Suggested UCL to Use

95% Student's-t UCL	0.0306

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Copper

General Statistics

Total Number of Observations	11	Number of Distinct Observations	5
		Number of Missing Observations	0
Minimum	1.4	Mean	1.591
Maximum	1.8	Median	1.6
SD	0.114	Std. Error of Mean	0.0343
Coefficient of Variation	0.0714	Skewness	0.211

Normal GOF Test

Shapiro Wilk Test Statistic	0.948	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.195	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL	1.653

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	1.65
95% Modified-t UCL (Johnson-1978)	1.653

Gamma GOF Test

A-D Test Statistic	0.395	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.726	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.185	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.254	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	216.4	k star (bias corrected MLE)	157.4
Theta hat (MLE)	0.00735	Theta star (bias corrected MLE)	0.0101
nu hat (MLE)	4761	nu star (bias corrected)	3464
MLE Mean (bias corrected)	1.591	MLE Sd (bias corrected)	0.127
		Approximate Chi Square Value (0.05)	3328
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	3306

Assuming Gamma Distribution

95% Approximate Gamma UCL	1.656	95% Adjusted Gamma UCL	1.667

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.95	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.183	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.336	Mean of logged Data	0.462
Maximum of Logged Data	0.588	SD of logged Data	0.0713

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	1.694
95% Chebyshev (MVUE) UCL	1.74	97.5% Chebyshev (MVUE) UCL	1.805
99% Chebyshev (MVUE) UCL	1.931		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	1.647	95% BCA Bootstrap UCL	1.636
95% Standard Bootstrap UCL	1.645	95% Bootstrap-t UCL	1.658
95% Hall's Bootstrap UCL	1.661	95% Percentile Bootstrap UCL	1.645
90% Chebyshev(Mean, Sd) UCL	1.694	95% Chebyshev(Mean, Sd) UCL	1.74
97.5% Chebyshev(Mean, Sd) UCL	1.805	99% Chebyshev(Mean, Sd) UCL	1.932

Suggested UCL to Use

95% Student's-t UCL 1.653

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Iron

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	87	Mean	177.9
Maximum	346	Median	148
SD	85.78	Std. Error of Mean	25.86
Coefficient of Variation	0.482	Skewness	1.304

Normal GOF Test

Shapiro Wilk Test Statistic	0.823	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.268	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL 224.8

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	231.3
95% Modified-t UCL (Johnson-1978)	226.5

Gamma GOF Test

A-D Test Statistic	0.557	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.731	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.242	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.256	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	5.659	k star (bias corrected MLE)	4.177
Theta hat (MLE)	31.44	Theta star (bias corrected MLE)	42.6
nu hat (MLE)	124.5	nu star (bias corrected)	91.88
MLE Mean (bias corrected)	177.9	MLE Sd (bias corrected)	87.05
		Approximate Chi Square Value (0.05)	70.78
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	67.77

Assuming Gamma Distribution

95% Approximate Gamma UCL	231	95% Adjusted Gamma UCL	241.2

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.925	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.215	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.466	Mean of logged Data	5.09
Maximum of Logged Data	5.846	SD of logged Data	0.433

Assuming Lognormal Distribution

95% H-UCL	237.6	90% Chebyshev (MVUE) UCL	247.1
95% Chebyshev (MVUE) UCL	279	97.5% Chebyshev (MVUE) UCL	323.2
99% Chebyshev (MVUE) UCL	410.1		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	220.5	95% BCA Bootstrap UCL	228.3
95% Standard Bootstrap UCL	217.2	95% Bootstrap-t UCL	267
95% Hall's Bootstrap UCL	464.8	95% Percentile Bootstrap UCL	219.7
90% Chebyshev(Mean, Sd) UCL	255.5	95% Chebyshev(Mean, Sd) UCL	290.6
97.5% Chebyshev(Mean, Sd) UCL	339.4	99% Chebyshev(Mean, Sd) UCL	435.2

Suggested UCL to Use

95% Student's-t UCL 224.8

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lead

General Statistics

Total Number of Observations	11	Number of Distinct Observations	2
Number of Detects	1	Number of Non-Detects	10
Number of Distinct Detects	1	Number of Distinct Non-Detects	1

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Lead was not processed!

Magnesium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	507	Mean	615.9
Maximum	655	Median	631
SD	41.7	Std. Error of Mean	12.57
Coefficient of Variation	0.0677	Skewness	-2.015

Normal GOF Test

Shapiro Wilk Test Statistic	0.787	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.241	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Approximate Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	638.7	95% Adjusted-CLT UCL (Chen-1995)	628.4
		95% Modified-t UCL (Johnson-1978)	637.4

Gamma GOF Test

A-D Test Statistic	0.974	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.726	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.25	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.254	Detected data appear Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics

k hat (MLE)	220.9	k star (bias corrected MLE)	160.7
Theta hat (MLE)	2.788	Theta star (bias corrected MLE)	3.832
nu hat (MLE)	4860	nu star (bias corrected)	3536
MLE Mean (bias corrected)	615.9	MLE Sd (bias corrected)	48.58
		Approximate Chi Square Value (0.05)	3399
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	3377

Assuming Gamma Distribution

95% Approximate Gamma UCL	640.8	95% Adjusted Gamma UCL	644.9

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.759	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.246	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data Not Lognormal at 10% Significance Level

Data Not Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	6.229	Mean of logged Data	6.421
Maximum of Logged Data	6.485	SD of logged Data	0.0721

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	656.2
95% Chebyshev (MVUE) UCL	674.4	97.5% Chebyshev (MVUE) UCL	699.6
99% Chebyshev (MVUE) UCL	749.3		

Nonparametric Distribution Free UCL Statistics
Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	636.6	95% BCA Bootstrap UCL	630.6
95% Standard Bootstrap UCL	635.8	95% Bootstrap-t UCL	633
95% Hall's Bootstrap UCL	630.7	95% Percentile Bootstrap UCL	633.2
90% Chebyshev(Mean, Sd) UCL	653.6	95% Chebyshev(Mean, Sd) UCL	670.7
97.5% Chebyshev(Mean, Sd) UCL	694.4	99% Chebyshev(Mean, Sd) UCL	741

Suggested UCL to Use

95% Student's-t UCL	638.7

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Manganese

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	434	Mean	581.8
Maximum	708	Median	606
SD	88.43	Std. Error of Mean	26.66
Coefficient of Variation	0.152	Skewness	-0.276

Normal GOF Test

Shapiro Wilk Test Statistic	0.964	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.153	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	630.1	95% Adjusted-CLT UCL (Chen-1995)	623.3
		95% Modified-t UCL (Johnson-1978)	629.8

Gamma GOF Test

A-D Test Statistic	0.259	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.728	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.173	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.255	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	45.77	k star (bias corrected MLE)	33.35
Theta hat (MLE)	12.71	Theta star (bias corrected MLE)	17.45
nu hat (MLE)	1007	nu star (bias corrected)	733.7
MLE Mean (bias corrected)	581.8	MLE Sd (bias corrected)	100.8
		Approximate Chi Square Value (0.05)	671.8
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	662.2

Assuming Gamma Distribution

95% Approximate Gamma UCL	635.4	95% Adjusted Gamma UCL	644.7

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.953	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.174	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	6.073	Mean of logged Data	6.355
Maximum of Logged Data	6.562	SD of logged Data	0.157

Assuming Lognormal Distribution

95% H-UCL	638	90% Chebyshev (MVUE) UCL	664.8
95% Chebyshev (MVUE) UCL	702.4	97.5% Chebyshev (MVUE) UCL	754.5
99% Chebyshev (MVUE) UCL	856.9		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	625.7	95% BCA Bootstrap UCL	620.5
95% Standard Bootstrap UCL	623	95% Bootstrap-t UCL	626.3
95% Hall's Bootstrap UCL	620.1	95% Percentile Bootstrap UCL	622.6
90% Chebyshev(Mean, Sd) UCL	661.8	95% Chebyshev(Mean, Sd) UCL	698
97.5% Chebyshev(Mean, Sd) UCL	748.3	99% Chebyshev(Mean, Sd) UCL	847.1

Suggested UCL to Use

95% Student's-t UCL 630.1

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Mercury

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Mercury was not processed!

Molybdenum

General Statistics

Total Number of Observations	11	Number of Distinct Observations	2
Number of Detects	1	Number of Non-Detects	10
Number of Distinct Detects	1	Number of Distinct Non-Detects	1

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Molybdenum was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nickel

General Statistics

Total Number of Observations	11	Number of Distinct Observations	9
		Number of Missing Observations	0
Minimum	0.23	Mean	0.373
Maximum	0.67	Median	0.35
SD	0.14	Std. Error of Mean	0.0423
Coefficient of Variation	0.377	Skewness	1.393

Normal GOF Test

Shapiro Wilk Test Statistic	0.828	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.263	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	0.449	95% Adjusted-CLT UCL (Chen-1995)	0.461
		95% Modified-t UCL (Johnson-1978)	0.452

Gamma GOF Test

A-D Test Statistic	0.578	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.73	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.225	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.255	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	9.238	k star (bias corrected MLE)	6.78
Theta hat (MLE)	0.0403	Theta star (bias corrected MLE)	0.055
nu hat (MLE)	203.2	nu star (bias corrected)	149.1
MLE Mean (bias corrected)	0.373	MLE Sd (bias corrected)	0.143
		Approximate Chi Square Value (0.05)	121.9
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	117.9

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.456	95% Adjusted Gamma UCL	0.471

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.911	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.203	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-1.47	Mean of logged Data	-1.042
Maximum of Logged Data	-0.4	SD of logged Data	0.336

Assuming Lognormal Distribution

95% H-UCL	0.461	90% Chebyshev (MVUE) UCL	0.485
95% Chebyshev (MVUE) UCL	0.537	97.5% Chebyshev (MVUE) UCL	0.608
99% Chebyshev (MVUE) UCL	0.749		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	0.442	95% BCA Bootstrap UCL	0.459
95% Standard Bootstrap UCL	0.44	95% Bootstrap-t UCL	0.529
95% Hall's Bootstrap UCL	0.917	95% Percentile Bootstrap UCL	0.448
90% Chebyshev(Mean, Sd) UCL	0.5	95% Chebyshev(Mean, Sd) UCL	0.557
97.5% Chebyshev(Mean, Sd) UCL	0.637	99% Chebyshev(Mean, Sd) UCL	0.794

Suggested UCL to Use

95% Student's-t UCL	0.449

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Phosphorus

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	560	Mean	657.5
Maximum	726	Median	653
SD	52.71	Std. Error of Mean	15.89
Coefficient of Variation	0.0802	Skewness	-0.634

Normal GOF Test

Shapiro Wilk Test Statistic	0.92	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.203	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	686.3	95% Adjusted-CLT UCL (Chen-1995)	680.3
		95% Modified-t UCL (Johnson-1978)	685.8

Gamma GOF Test

A-D Test Statistic	0.457	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.726	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.208	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.254	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma Statistics

k hat (MLE)	165.5	k star (bias corrected MLE)	120.4
Theta hat (MLE)	3.973	Theta star (bias corrected MLE)	5.461
nu hat (MLE)	3640	nu star (bias corrected)	2649
MLE Mean (bias corrected)	657.5	MLE Sd (bias corrected)	59.92
		Approximate Chi Square Value (0.05)	2530
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	2511

Assuming Gamma Distribution

95% Approximate Gamma UCL	688.3	95% Adjusted Gamma UCL	693.5

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.907	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.219	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	6.328	Mean of logged Data	6.485
Maximum of Logged Data	6.588	SD of logged Data	0.0823

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	706.5
95% Chebyshev (MVUE) UCL	728.7	97.5% Chebyshev (MVUE) UCL	759.5
99% Chebyshev (MVUE) UCL	820		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	683.6	95% BCA Bootstrap UCL	680.3
95% Standard Bootstrap UCL	682.4	95% Bootstrap-t UCL	683.5
95% Hall's Bootstrap UCL	681.2	95% Percentile Bootstrap UCL	681.4
90% Chebyshev(Mean, Sd) UCL	705.1	95% Chebyshev(Mean, Sd) UCL	726.7
97.5% Chebyshev(Mean, Sd) UCL	756.7	99% Chebyshev(Mean, Sd) UCL	815.6

Suggested UCL to Use

95% Student's-t UCL	686.3

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Potassium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	1830	Mean	2142
Maximum	2400	Median	2160
SD	173	Std. Error of Mean	52.17
Coefficient of Variation	0.0808	Skewness	-0.316

Normal GOF Test

Shapiro Wilk Test Statistic	0.975	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.108	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL

95% Student's-t UCL	2236

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	2222
95% Modified-t UCL (Johnson-1978)	2236

Gamma GOF Test

A-D Test Statistic	0.188	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.726	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.121	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.254	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	165.2	k star (bias corrected MLE)	120.2
Theta hat (MLE)	12.96	Theta star (bias corrected MLE)	17.81
nu hat (MLE)	3635	nu star (bias corrected)	2645
MLE Mean (bias corrected)	2142	MLE Sd (bias corrected)	195.3
		Approximate Chi Square Value (0.05)	2527
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	2508

Assuming Gamma Distribution

95% Approximate Gamma UCL	2242	95% Adjusted Gamma UCL	2259

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.968	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.117	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	7.512	Mean of logged Data	7.666
Maximum of Logged Data	7.783	SD of logged Data	0.0821

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	2301
95% Chebyshev (MVUE) UCL	2373	97.5% Chebyshev (MVUE) UCL	2473
99% Chebyshev (MVUE) UCL	2670		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	2228	95% BCA Bootstrap UCL	2217
95% Standard Bootstrap UCL	2224	95% Bootstrap-t UCL	2229
95% Hall's Bootstrap UCL	2225	95% Percentile Bootstrap UCL	2222
90% Chebyshev(Mean, Sd) UCL	2298	95% Chebyshev(Mean, Sd) UCL	2369
97.5% Chebyshev(Mean, Sd) UCL	2468	99% Chebyshev(Mean, Sd) UCL	2661

Suggested UCL to Use

95% Student's-t UCL 2236

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Selenium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Selenium was not processed!

Silver

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Silver was not processed!

Sodium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Sodium was not processed!

Strontium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	2.3	Mean	6.955
Maximum	17.2	Median	5.3
SD	4.451	Std. Error of Mean	1.342
Coefficient of Variation	0.64	Skewness	1.435

Normal GOF Test

Shapiro Wilk Test Statistic	0.859	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.196	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	9.387	95% Adjusted-CLT UCL (Chen-1995)	9.783
		95% Modified-t UCL (Johnson-1978)	9.484

Gamma GOF Test

A-D Test Statistic	0.31	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.733	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.17	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.257	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma Statistics

k hat (MLE)	3.216	k star (bias corrected MLE)	2.4
Theta hat (MLE)	2.162	Theta star (bias corrected MLE)	2.898
nu hat (MLE)	70.76	nu star (bias corrected)	52.8
MLE Mean (bias corrected)	6.955	MLE Sd (bias corrected)	4.489
		Approximate Chi Square Value (0.05)	37.1
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	34.97

Assuming Gamma Distribution

95% Approximate Gamma UCL	9.896	95% Adjusted Gamma UCL	10.5

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.976	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.146	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.833	Mean of logged Data	1.776
Maximum of Logged Data	2.845	SD of logged Data	0.589

Assuming Lognormal Distribution

95% H-UCL	10.78	90% Chebyshev (MVUE) UCL	10.68
95% Chebyshev (MVUE) UCL	12.39	97.5% Chebyshev (MVUE) UCL	14.77
99% Chebyshev (MVUE) UCL	19.43		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	9.162	95% BCA Bootstrap UCL	9.718
95% Standard Bootstrap UCL	9.061	95% Bootstrap-t UCL	11.26
95% Hall's Bootstrap UCL	18.8	95% Percentile Bootstrap UCL	9.127
90% Chebyshev(Mean, Sd) UCL	10.98	95% Chebyshev(Mean, Sd) UCL	12.8
97.5% Chebyshev(Mean, Sd) UCL	15.34	99% Chebyshev(Mean, Sd) UCL	20.31

Suggested UCL to Use

95% Student's-t UCL	9.387

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Thallium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	8
Number of Detects	7	Number of Non-Detects	4
Number of Distinct Detects	7	Number of Distinct Non-Detects	1
Minimum Detect	0.004	Minimum Non-Detect	0.003
Maximum Detect	0.058	Maximum Non-Detect	0.003
Variance Detects	4.4495E-4	Percent Non-Detects	36.36%
Mean Detects	0.0244	SD Detects	0.0211
Median Detects	0.021	CV Detects	0.863
Skewness Detects	0.811	Kurtosis Detects	-0.855
Mean of Logged Detects	-4.115	SD of Logged Detects	1.042

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.882	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.73	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.222	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.35	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level
Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.0166	KM Standard Error of Mean	0.00608
90KM SD	0.0187	95% KM (BCA) UCL	0.0265
95% KM (t) UCL	0.0277	95% KM (Percentile Bootstrap) UCL	0.0263
95% KM (z) UCL	0.0266	95% KM Bootstrap t UCL	0.0353
90% KM Chebyshev UCL	0.0349	95% KM Chebyshev UCL	0.0432
97.5% KM Chebyshev UCL	0.0546	99% KM Chebyshev UCL	0.0772

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.272	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.723	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.165	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.318	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level
Note GOF tests may be unreliable for small sample sizes

Gamma Statistics on Detected Data Only

k hat (MLE)	1.383	k star (bias corrected MLE)	0.886
Theta hat (MLE)	0.0177	Theta star (bias corrected MLE)	0.0276
nu hat (MLE)	19.36	nu star (bias corrected)	12.4
Mean (detects)	0.0244		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.004	Mean	0.0192
Maximum	0.058	Median	0.01
SD	0.0179	CV	0.933
k hat (MLE)	1.619	k star (bias corrected MLE)	1.238
Theta hat (MLE)	0.0118	Theta star (bias corrected MLE)	0.0155
nu hat (MLE)	35.62	nu star (bias corrected)	27.24
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (27.24, α)	16.34	Adjusted Chi Square Value (27.24, β)	14.97
95% Gamma Approximate UCL	0.032	95% Gamma Adjusted UCL	0.0349

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.0166	SD (KM)	0.0187
Variance (KM)	3.4896E-4	SE of Mean (KM)	0.00608
k hat (KM)	0.793	k star (KM)	0.637
nu hat (KM)	17.45	nu star (KM)	14.02
theta hat (KM)	0.021	theta star (KM)	0.0261
80% gamma percentile (KM)	0.0274	90% gamma percentile (KM)	0.0427
95% gamma percentile (KM)	0.0586	99% gamma percentile (KM)	0.0968

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (14.02, α)	6.587	Adjusted Chi Square Value (14.02, β)	5.777
95% KM Approximate Gamma UCL	0.0354	95% KM Adjusted Gamma UCL	0.0404

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.93	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.838	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.167	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.28	Detected Data appear Lognormal at 10% Significance Level

Detected Data appear Lognormal at 10% Significance Level

Note GOF tests may be unreliable for small sample sizes

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.016	Mean in Log Scale	-5.123
SD in Original Scale	0.0201	SD in Log Scale	1.662
95% t UCL (assumes normality of ROS data)	0.027	95% Percentile Bootstrap UCL	0.0264
95% BCA Bootstrap UCL	0.0283	95% Bootstrap t UCL	0.0345
95% H-UCL (Log ROS)	0.239		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-4.731	KM Geo Mean	0.00882
KM SD (logged)	1.121	95% Critical H Value (KM-Log)	3.235
KM Standard Error of Mean (logged)	0.365	95% H-UCL (KM -Log)	0.052
KM SD (logged)	1.121	95% Critical H Value (KM-Log)	3.235
KM Standard Error of Mean (logged)	0.365		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.0161	Mean in Log Scale	-4.983
SD in Original Scale	0.02	SD in Log Scale	1.45
95% t UCL (Assumes normality)	0.027	95% H-Stat UCL	0.118

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL	0.0277

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Tin

General Statistics

Total Number of Observations	11	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	11
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Tin was not processed!

Titanium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	1.2	Mean	1.8
Maximum	2.6	Median	1.8
SD	0.39	Std. Error of Mean	0.118
Coefficient of Variation	0.217	Skewness	0.557

Normal GOF Test

Shapiro Wilk Test Statistic	0.978	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.126	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	2.013	95% Adjusted-CLT UCL (Chen-1995)	2.014
		95% Modified-t UCL (Johnson-1978)	2.016

Gamma GOF Test

A-D Test Statistic	0.125	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.729	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.0963	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.255	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma Statistics

k hat (MLE)	23.86	k star (bias corrected MLE)	17.41
Theta hat (MLE)	0.0755	Theta star (bias corrected MLE)	0.103
nu hat (MLE)	524.9	nu star (bias corrected)	383
MLE Mean (bias corrected)	1.8	MLE Sd (bias corrected)	0.431
		Approximate Chi Square Value (0.05)	338.7
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	331.9

Assuming Gamma Distribution

95% Approximate Gamma UCL	2.036	95% Adjusted Gamma UCL	2.078

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.994	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.0971	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.182	Mean of logged Data	0.567
Maximum of Logged Data	0.956	SD of logged Data	0.216

Assuming Lognormal Distribution

95% H-UCL	2.05	90% Chebyshev (MVUE) UCL	2.153
95% Chebyshev (MVUE) UCL	2.313	97.5% Chebyshev (MVUE) UCL	2.534
99% Chebyshev (MVUE) UCL	2.97		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	1.993	95% BCA Bootstrap UCL	1.991
95% Standard Bootstrap UCL	1.986	95% Bootstrap-t UCL	2.048
95% Hall's Bootstrap UCL	2.072	95% Percentile Bootstrap UCL	1.991
90% Chebyshev(Mean, Sd) UCL	2.153	95% Chebyshev(Mean, Sd) UCL	2.312
97.5% Chebyshev(Mean, Sd) UCL	2.534	99% Chebyshev(Mean, Sd) UCL	2.97

Suggested UCL to Use

95% Student's-t UCL	2.013

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Uranium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	2
Number of Detects	1	Number of Non-Detects	10
Number of Distinct Detects	1	Number of Distinct Non-Detects	1

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Uranium was not processed!

Vanadium

General Statistics

Total Number of Observations	11	Number of Distinct Observations	4
Number of Detects	9	Number of Non-Detects	2
Number of Distinct Detects	4	Number of Distinct Non-Detects	1
Minimum Detect	0.05	Minimum Non-Detect	0.05
Maximum Detect	0.1	Maximum Non-Detect	0.05
Variance Detects	2.2778E-4	Percent Non-Detects	18.18%
Mean Detects	0.0644	SD Detects	0.0151
Median Detects	0.06	CV Detects	0.234
Skewness Detects	1.819	Kurtosis Detects	4.147
Mean of Logged Detects	-2.763	SD of Logged Detects	0.21

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.788	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.764	Detected Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.282	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.316	Detected Data appear Normal at 1% Significance Level	

Detected Data appear Normal at 1% Significance Level
Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.0618	KM Standard Error of Mean	0.00449
90KM SD	0.014	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.0699	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.0692	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.0753	95% KM Chebyshev UCL	0.0814
97.5% KM Chebyshev UCL	0.0898	99% KM Chebyshev UCL	0.106

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.698	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.721	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.276	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.279	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level
Note GOF tests may be unreliable for small sample sizes

Gamma Statistics on Detected Data Only

k hat (MLE)	24.02	k star (bias corrected MLE)	16.09
Theta hat (MLE)	0.00268	Theta star (bias corrected MLE)	0.00401
nu hat (MLE)	432.4	nu star (bias corrected)	289.6
Mean (detects)	0.0644		

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.0309	Mean	0.0589
Maximum	0.1	Median	0.06
SD	0.0183	CV	0.311
k hat (MLE)	11.43	k star (bias corrected MLE)	8.375
Theta hat (MLE)	0.00515	Theta star (bias corrected MLE)	0.00703
nu hat (MLE)	251.5	nu star (bias corrected)	184.2
Adjusted Level of Significance (β)	0.0278		
Approximate Chi Square Value (184.24, α)	153.8	Adjusted Chi Square Value (184.24, β)	149.3
95% Gamma Approximate UCL	0.0705	95% Gamma Adjusted UCL	0.0727

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.0618	SD (KM)	0.014
Variance (KM)	1.9669E-4	SE of Mean (KM)	0.00449
k hat (KM)	19.43	k star (KM)	14.19
nu hat (KM)	427.4	nu star (KM)	312.2
theta hat (KM)	0.00318	theta star (KM)	0.00436
80% gamma percentile (KM)	0.075	90% gamma percentile (KM)	0.0836
95% gamma percentile (KM)	0.0911	99% gamma percentile (KM)	0.106

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (312.19, α)	272.3	Adjusted Chi Square Value (312.19, β)	266.2
95% KM Approximate Gamma UCL	0.0709	95% KM Adjusted Gamma UCL	0.0725

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.852	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.859	Detected Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.262	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.252	Detected Data Not Lognormal at 10% Significance Level

Detected Data Not Lognormal at 10% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.0598	Mean in Log Scale	-2.851
SD in Original Scale	0.017	SD in Log Scale	0.272
95% t UCL (assumes normality of ROS data)	0.0691	95% Percentile Bootstrap UCL	0.0682
95% BCA Bootstrap UCL	0.0698	95% Bootstrap t UCL	0.0711
95% H-UCL (Log ROS)	0.0708		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-2.805	KM Geo Mean	0.0605
KM SD (logged)	0.2	95% Critical H Value (KM-Log)	1.86
KM Standard Error of Mean (logged)	0.064	95% H-UCL (KM -Log)	0.0694
KM SD (logged)	0.2	95% Critical H Value (KM-Log)	1.86
KM Standard Error of Mean (logged)	0.064		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.0573	Mean in Log Scale	-2.931
SD in Original Scale	0.0209	SD in Log Scale	0.419
95% t UCL (Assumes normality)	0.0687	95% H-Stat UCL	0.0766

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL	0.0699

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Zinc

General Statistics

Total Number of Observations	11	Number of Distinct Observations	2
		Number of Missing Observations	0
Minimum	9	Mean	9.636
Maximum	10	Median	10
SD	0.505	Std. Error of Mean	0.152
Coefficient of Variation	0.0524	Skewness	-0.661

Normal GOF Test

Shapiro Wilk Test Statistic	0.624	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.792	Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.401	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.291	Data Not Normal at 1% Significance Level

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	9.912	95% Adjusted-CLT UCL (Chen-1995)	9.854
		95% Modified-t UCL (Johnson-1978)	9.907

Gamma GOF Test

A-D Test Statistic	2.173	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.726	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.412	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.254	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-26 4:37:40 PM
From File	Lab tea UCL Inputs.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma Statistics

k hat (MLE)	393.4	k star (bias corrected MLE)	286.1
Theta hat (MLE)	0.0245	Theta star (bias corrected MLE)	0.0337
nu hat (MLE)	8654	nu star (bias corrected)	6295
MLE Mean (bias corrected)	9.636	MLE Sd (bias corrected)	0.57
		Approximate Chi Square Value (0.05)	6112
Adjusted Level of Significance	0.0278	Adjusted Chi Square Value	6082

Assuming Gamma Distribution

95% Approximate Gamma UCL	9.926	95% Adjusted Gamma UCL	9.974

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.624	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.876	Data Not Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.401	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.231	Data Not Lognormal at 10% Significance Level	

Data Not Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	2.197	Mean of logged Data	2.264
Maximum of Logged Data	2.303	SD of logged Data	0.0532

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	10.1
95% Chebyshev (MVUE) UCL	10.31	97.5% Chebyshev (MVUE) UCL	10.6
99% Chebyshev (MVUE) UCL	11.17		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	9.887	95% BCA Bootstrap UCL	N/A
95% Standard Bootstrap UCL	N/A	95% Bootstrap-t UCL	N/A
95% Hall's Bootstrap UCL	N/A	95% Percentile Bootstrap UCL	N/A
90% Chebyshev(Mean, Sd) UCL	10.09	95% Chebyshev(Mean, Sd) UCL	10.3
97.5% Chebyshev(Mean, Sd) UCL	10.59	99% Chebyshev(Mean, Sd) UCL	11.15

Suggested UCL to Use

95% Student's-t UCL	9.912

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Moisture

General Statistics

Total Number of Observations	13	Number of Distinct Observations	13
		Number of Missing Observations	0
Minimum	72.57	Mean	75.1
Maximum	77.21	Median	75.16
SD	1.671	Std. Error of Mean	0.464
Coefficient of Variation	0.0223	Skewness	-0.208

Normal GOF Test

Shapiro Wilk Test Statistic	0.914	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.16	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	75.92	95% Adjusted-CLT UCL (Chen-1995)	75.83
		95% Modified-t UCL (Johnson-1978)	75.92

Gamma GOF Test

A-D Test Statistic	0.452	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.732	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.17	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.236	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	2181	k star (bias corrected MLE)	1678
Theta hat (MLE)	0.0344	Theta star (bias corrected MLE)	0.0448
nu hat (MLE)	56710	nu star (bias corrected)	43624
MLE Mean (bias corrected)	75.1	MLE Sd (bias corrected)	1.833
		Approximate Chi Square Value (0.05)	43140
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	43071

Assuming Gamma Distribution

95% Approximate Gamma UCL	75.94	95% Adjusted Gamma UCL	76.06

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.913	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.889	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.16	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.285	Mean of logged Data	4.319
Maximum of Logged Data	4.347	SD of logged Data	0.0223

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	76.49
95% Chebyshev (MVUE) UCL	77.12	97.5% Chebyshev (MVUE) UCL	78
99% Chebyshev (MVUE) UCL	79.72		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nonparametric Distribution Free UCLs

95% CLT UCL	75.86	95% BCA Bootstrap UCL	75.86
95% Standard Bootstrap UCL	75.85	95% Bootstrap-t UCL	75.91
95% Hall's Bootstrap UCL	75.8	95% Percentile Bootstrap UCL	75.85
90% Chebyshev(Mean, Sd) UCL	76.49	95% Chebyshev(Mean, Sd) UCL	77.12
97.5% Chebyshev(Mean, Sd) UCL	77.99	99% Chebyshev(Mean, Sd) UCL	79.71

Suggested UCL to Use

95% Student's-t UCL 75.92

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Antimony

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Antimony was not processed!

Arsenic

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic was not processed!

Barium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Barium was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Beryllium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Beryllium was not processed!

Bismuth

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Bismuth was not processed!

Boron

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Boron was not processed!

Cadmium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Cadmium was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Calcium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	54	Mean	438.4
Maximum	1500	Median	280
SD	482	Std. Error of Mean	133.7
Coefficient of Variation	1.099	Skewness	1.629

Normal GOF Test

Shapiro Wilk Test Statistic	0.753	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.223	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level	

Data appear Approximate Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	676.6	95% Adjusted-CLT UCL (Chen-1995)	722.8
		95% Modified-t UCL (Johnson-1978)	686.7

Gamma GOF Test

A-D Test Statistic	0.43	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.756	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.162	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.243	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.082	k star (bias corrected MLE)	0.883
Theta hat (MLE)	405.3	Theta star (bias corrected MLE)	496.3
nu hat (MLE)	28.12	nu star (bias corrected)	22.97
MLE Mean (bias corrected)	438.4	MLE Sd (bias corrected)	466.4
		Approximate Chi Square Value (0.05)	13.07
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	12.01

Assuming Gamma Distribution

95% Approximate Gamma UCL	770.6	95% Adjusted Gamma UCL	838.1

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.95	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.889	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.144	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	3.989	Mean of logged Data	5.554
Maximum of Logged Data	7.313	SD of logged Data	1.087

Assuming Lognormal Distribution

95% H-UCL	1196	90% Chebyshev (MVUE) UCL	866.4
95% Chebyshev (MVUE) UCL	1061	97.5% Chebyshev (MVUE) UCL	1331
99% Chebyshev (MVUE) UCL	1861		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nonparametric Distribution Free UCLs

95% CLT UCL	658.3	95% BCA Bootstrap UCL	724.1
95% Standard Bootstrap UCL	648.8	95% Bootstrap-t UCL	967
95% Hall's Bootstrap UCL	1913	95% Percentile Bootstrap UCL	655.1
90% Chebyshev(Mean, Sd) UCL	839.4	95% Chebyshev(Mean, Sd) UCL	1021
97.5% Chebyshev(Mean, Sd) UCL	1273	99% Chebyshev(Mean, Sd) UCL	1768

Suggested UCL to Use

95% Student's-t UCL 676.6

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Cesium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	0.027	Mean	0.0399
Maximum	0.058	Median	0.039
SD	0.00833	Std. Error of Mean	0.00231
Coefficient of Variation	0.209	Skewness	0.501

Normal GOF Test

Shapiro Wilk Test Statistic	0.957	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.141	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	0.044	95% Adjusted-CLT UCL (Chen-1995)	0.0441
		95% Modified-t UCL (Johnson-1978)	0.0441

Gamma GOF Test

A-D Test Statistic	0.272	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.733	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.128	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.236	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	25.08	k star (bias corrected MLE)	19.34
Theta hat (MLE)	0.00159	Theta star (bias corrected MLE)	0.00206
nu hat (MLE)	652.1	nu star (bias corrected)	502.9
MLE Mean (bias corrected)	0.0399	MLE Sd (bias corrected)	0.00908
		Approximate Chi Square Value (0.05)	451.9
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	445

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.0444	95% Adjusted Gamma UCL	0.0451

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.963	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.889	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.143	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-3.612	Mean of logged Data	-3.241
Maximum of Logged Data	-2.847	SD of logged Data	0.209

Assuming Lognormal Distribution

95% H-UCL	0.0447	90% Chebyshev (MVUE) UCL	0.0469
95% Chebyshev (MVUE) UCL	0.0501	97.5% Chebyshev (MVUE) UCL	0.0545
99% Chebyshev (MVUE) UCL	0.0631		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	0.0437	95% BCA Bootstrap UCL	0.0437
95% Standard Bootstrap UCL	0.0436	95% Bootstrap-t UCL	0.0444
95% Hall's Bootstrap UCL	0.0451	95% Percentile Bootstrap UCL	0.0436
90% Chebyshev(Mean, Sd) UCL	0.0469	95% Chebyshev(Mean, Sd) UCL	0.05
97.5% Chebyshev(Mean, Sd) UCL	0.0544	99% Chebyshev(Mean, Sd) UCL	0.0629

Suggested UCL to Use

95% Student's-t UCL	0.044

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Chromium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Chromium was not processed!

Cobalt

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Cobalt was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Copper

General Statistics

Total Number of Observations	13	Number of Distinct Observations	2
Number of Detects	1	Number of Non-Detects	12
Number of Distinct Detects	1	Number of Distinct Non-Detects	1

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!

It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Copper was not processed!

Iron

General Statistics

Total Number of Observations	13	Number of Distinct Observations	5
Number of Detects	12	Number of Non-Detects	1
Number of Distinct Detects	5	Number of Distinct Non-Detects	1
Minimum Detect	3	Minimum Non-Detect	3
Maximum Detect	19	Maximum Non-Detect	3
Variance Detects	18.33	Percent Non-Detects	7.692%
Mean Detects	6.167	SD Detects	4.282
Median Detects	5	CV Detects	0.694
Skewness Detects	2.881	Kurtosis Detects	8.787
Mean of Logged Detects	1.69	SD of Logged Detects	0.468

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.563	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.805	Detected Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.441	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.281	Detected Data Not Normal at 1% Significance Level	

Detected Data Not Normal at 1% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	5.923	KM Standard Error of Mean	1.167
90KM SD	4.028	95% KM (BCA) UCL	8
95% KM (t) UCL	8.003	95% KM (Percentile Bootstrap) UCL	8.077
95% KM (z) UCL	7.842	95% KM Bootstrap t UCL	14.03
90% KM Chebyshev UCL	9.424	95% KM Chebyshev UCL	11.01
97.5% KM Chebyshev UCL	13.21	99% KM Chebyshev UCL	17.53

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.82	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.736	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.427	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.246	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	4.028	k star (bias corrected MLE)	3.076
Theta hat (MLE)	1.531	Theta star (bias corrected MLE)	2.005
nu hat (MLE)	96.66	nu star (bias corrected)	73.83
Mean (detects)	6.167		

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	5.693
Maximum	19	Median	5
SD	4.441	CV	0.78
k hat (MLE)	1.073	k star (bias corrected MLE)	0.877
Theta hat (MLE)	5.305	Theta star (bias corrected MLE)	6.494
nu hat (MLE)	27.9	nu star (bias corrected)	22.79
Adjusted Level of Significance (β)	0.0301		
Approximate Chi Square Value (22.79, α)	12.94	Adjusted Chi Square Value (22.79, β)	11.89
95% Gamma Approximate UCL	10.03	95% Gamma Adjusted UCL	10.92

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	5.923	SD (KM)	4.028
Variance (KM)	16.22	SE of Mean (KM)	1.167
k hat (KM)	2.162	k star (KM)	1.715
nu hat (KM)	56.22	nu star (KM)	44.58
theta hat (KM)	2.739	theta star (KM)	3.455
80% gamma percentile (KM)	9.028	90% gamma percentile (KM)	11.95
95% gamma percentile (KM)	14.76	99% gamma percentile (KM)	21.06

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (44.58, α)	30.26	Adjusted Chi Square Value (44.58, β)	28.59
95% KM Approximate Gamma UCL	8.724	95% KM Adjusted Gamma UCL	9.235

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.737	**Shapiro Wilk GOF Test**	
10% Shapiro Wilk Critical Value	0.883	Detected Data Not Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.402	**Lilliefors GOF Test**	
10% Lilliefors Critical Value	0.223	Detected Data Not Lognormal at 10% Significance Level	

Detected Data Not Lognormal at 10% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	5.849	Mean in Log Scale	1.615
SD in Original Scale	4.257	SD in Log Scale	0.524
95% t UCL (assumes normality of ROS data)	7.953	95% Percentile Bootstrap UCL	7.923
95% BCA Bootstrap UCL	9	95% Bootstrap t UCL	12.79
95% H-UCL (Log ROS)	7.97		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	1.644	KM Geo Mean	5.178
KM SD (logged)	0.459	95% Critical H Value (KM-Log)	2.065
KM Standard Error of Mean (logged)	0.133	95% H-UCL (KM -Log)	7.56
KM SD (logged)	0.459	95% Critical H Value (KM-Log)	2.065
KM Standard Error of Mean (logged)	0.133		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	5.808	Mean in Log Scale	1.591
SD in Original Scale	4.299	SD in Log Scale	0.573
95% t UCL (Assumes normality)	7.933	95% H-Stat UCL	8.319

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Suggested UCL to Use

95% KM (t) UCL 8.003

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Lead

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Lead was not processed!

Magnesium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	6
		Number of Missing Observations	0
Minimum	260	Mean	285.4
Maximum	320	Median	290
SD	18.54	Std. Error of Mean	5.141
Coefficient of Variation	0.065	Skewness	0.16

Normal GOF Test

Shapiro Wilk Test Statistic	0.925	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.171	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	294.5	95% Adjusted-CLT UCL (Chen-1995)	294.1
		95% Modified-t UCL (Johnson-1978)	294.6

Gamma GOF Test

A-D Test Statistic	0.47	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.732	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.159	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.236	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	257.3	k star (bias corrected MLE)	198
Theta hat (MLE)	1.109	Theta star (bias corrected MLE)	1.441
nu hat (MLE)	6690	nu star (bias corrected)	5147
MLE Mean (bias corrected)	285.4	MLE Sd (bias corrected)	20.28
		Approximate Chi Square Value (0.05)	4982
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	4958

Assuming Gamma Distribution

95% Approximate Gamma UCL	294.9	95% Adjusted Gamma UCL	296.3

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.923	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.889	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.165	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	5.561	Mean of logged Data	5.652
Maximum of Logged Data	5.768	SD of logged Data	0.0649

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	300.8
95% Chebyshev (MVUE) UCL	307.8	97.5% Chebyshev (MVUE) UCL	317.5
99% Chebyshev (MVUE) UCL	336.5		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	293.8	95% BCA Bootstrap UCL	292.3
95% Standard Bootstrap UCL	293.4	95% Bootstrap-t UCL	294.6
95% Hall's Bootstrap UCL	294.6	95% Percentile Bootstrap UCL	293.8
90% Chebyshev(Mean, Sd) UCL	300.8	95% Chebyshev(Mean, Sd) UCL	307.8
97.5% Chebyshev(Mean, Sd) UCL	317.5	99% Chebyshev(Mean, Sd) UCL	336.5

Suggested UCL to Use

95% Student's-t UCL	294.5

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Manganese

General Statistics

Total Number of Observations	13	Number of Distinct Observations	4
Number of Detects	4	Number of Non-Detects	9
Number of Distinct Detects	4	Number of Distinct Non-Detects	1
Minimum Detect	0.3	Minimum Non-Detect	0.3
Maximum Detect	0.7	Maximum Non-Detect	0.3
Variance Detects	0.0292	Percent Non-Detects	69.23%
Mean Detects	0.525	SD Detects	0.171
Median Detects	0.55	CV Detects	0.325
Skewness Detects	-0.753	Kurtosis Detects	0.343
Mean of Logged Detects	-0.691	SD of Logged Detects	0.369

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.972	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.687	Detected Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.192	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.413	Detected Data appear Normal at 1% Significance Level

Detected Data appear Normal at 1% Significance Level

Note GOF tests may be unreliable for small sample sizes

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.369	KM Standard Error of Mean	0.0424
90KM SD	0.132	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.445	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.439	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.496	95% KM Chebyshev UCL	0.554
97.5% KM Chebyshev UCL	0.634	99% KM Chebyshev UCL	0.791

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.295	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.657	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.227	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.395	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Note GOF tests may be unreliable for small sample sizes

Gamma Statistics on Detected Data Only

k hat (MLE)	10.85	k star (bias corrected MLE)	2.879
Theta hat (MLE)	0.0484	Theta star (bias corrected MLE)	0.182
nu hat (MLE)	86.79	nu star (bias corrected)	23.03
Mean (detects)	0.525		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.202
Maximum	0.7	Median	0.0861
SD	0.248	CV	1.227
k hat (MLE)	0.558	k star (bias corrected MLE)	0.481
Theta hat (MLE)	0.362	Theta star (bias corrected MLE)	0.42
nu hat (MLE)	14.51	nu star (bias corrected)	12.5
Adjusted Level of Significance (β)	0.0301		
Approximate Chi Square Value (12.50, α)	5.555	Adjusted Chi Square Value (12.50, β)	4.911
95% Gamma Approximate UCL	0.454	95% Gamma Adjusted UCL	N/A

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.369	SD (KM)	0.132
Variance (KM)	0.0175	SE of Mean (KM)	0.0424
k hat (KM)	7.784	k star (KM)	6.039
nu hat (KM)	202.4	nu star (KM)	157
theta hat (KM)	0.0474	theta star (KM)	0.0611
80% gamma percentile (KM)	0.486	90% gamma percentile (KM)	0.57
95% gamma percentile (KM)	0.646	99% gamma percentile (KM)	0.805

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (157.01, α)	129	Adjusted Chi Square Value (157.01, β)	125.4
95% KM Approximate Gamma UCL	0.449	95% KM Adjusted Gamma UCL	0.462

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.922	**Shapiro Wilk GOF Test**
10% Shapiro Wilk Critical Value	0.792	Detected Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.248	**Lilliefors GOF Test**
10% Lilliefors Critical Value	0.346	Detected Data appear Lognormal at 10% Significance Level

Detected Data appear Lognormal at 10% Significance Level

Note GOF tests may be unreliable for small sample sizes

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.258	Mean in Log Scale	-1.659
SD in Original Scale	0.211	SD in Log Scale	0.823
95% t UCL (assumes normality of ROS data)	0.362	95% Percentile Bootstrap UCL	0.357
95% BCA Bootstrap UCL	0.371	95% Bootstrap t UCL	0.397
95% H-UCL (Log ROS)	0.49		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-1.046	KM Geo Mean	0.351
KM SD (logged)	0.296	95% Critical H Value (KM-Log)	1.905
KM Standard Error of Mean (logged)	0.0947	95% H-UCL (KM -Log)	0.432
KM SD (logged)	0.296	95% Critical H Value (KM-Log)	1.905
KM Standard Error of Mean (logged)	0.0947		

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.265	Mean in Log Scale	-1.526
SD in Original Scale	0.199	SD in Log Scale	0.608
95% t UCL (Assumes normality)	0.364	95% H-Stat UCL	0.388

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 1% Significance Level

Suggested UCL to Use

95% KM (t) UCL 0.445

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Methyl Mercury

General Statistics

Total Number of Observations	13	Number of Distinct Observations	11
		Number of Missing Observations	0
Minimum	0.11	Mean	0.358
Maximum	1.1	Median	0.17
SD	0.348	Std. Error of Mean	0.0966
Coefficient of Variation	0.971	Skewness	1.411

Normal GOF Test

Shapiro Wilk Test Statistic	0.715	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.293	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data Not Normal at 1% Significance Level	

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	0.531	95% Adjusted-CLT UCL (Chen-1995)	0.558
		95% Modified-t UCL (Johnson-1978)	0.537

Gamma GOF Test

A-D Test Statistic	1.199	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.75	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.244	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.241	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.544	k star (bias corrected MLE)	1.239
Theta hat (MLE)	0.232	Theta star (bias corrected MLE)	0.289
nu hat (MLE)	40.14	nu star (bias corrected)	32.21
MLE Mean (bias corrected)	0.358	MLE Sd (bias corrected)	0.322
		Approximate Chi Square Value (0.05)	20.24
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	18.89

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.571	95% Adjusted Gamma UCL	0.611

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.837	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.889	Data Not Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.219	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.215	Data Not Lognormal at 10% Significance Level

Data Not Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-2.207	Mean of logged Data	-1.384
Maximum of Logged Data	0.0953	SD of logged Data	0.828

Assuming Lognormal Distribution

95% H-UCL	0.652	90% Chebyshev (MVUE) UCL	0.591
95% Chebyshev (MVUE) UCL	0.704	97.5% Chebyshev (MVUE) UCL	0.861
99% Chebyshev (MVUE) UCL	1.17		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	0.517	95% BCA Bootstrap UCL	0.556
95% Standard Bootstrap UCL	0.511	95% Bootstrap-t UCL	0.6
95% Hall's Bootstrap UCL	0.486	95% Percentile Bootstrap UCL	0.519
90% Chebyshev(Mean, Sd) UCL	0.648	95% Chebyshev(Mean, Sd) UCL	0.779
97.5% Chebyshev(Mean, Sd) UCL	0.962	99% Chebyshev(Mean, Sd) UCL	1.319

Suggested UCL to Use

95% Student's-t UCL	0.531

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Mercury

General Statistics

Total Number of Observations	13	Number of Distinct Observations	13
		Number of Missing Observations	0
Minimum	0.09	Mean	0.306
Maximum	0.96	Median	0.15
SD	0.31	Std. Error of Mean	0.0861
Coefficient of Variation	1.015	Skewness	1.431

Normal GOF Test

Shapiro Wilk Test Statistic	0.698	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.814	Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.326	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.271	Data Not Normal at 1% Significance Level

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	0.459	95% Adjusted-CLT UCL (Chen-1995)	0.484
		95% Modified-t UCL (Johnson-1978)	0.465

Gamma GOF Test

A-D Test Statistic	1.283	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.751	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.266	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.241	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma Statistics

k hat (MLE)	1.439	k star (bias corrected MLE)	1.158
Theta hat (MLE)	0.213	Theta star (bias corrected MLE)	0.264
nu hat (MLE)	37.41	nu star (bias corrected)	30.11
MLE Mean (bias corrected)	0.306	MLE Sd (bias corrected)	0.284
		Approximate Chi Square Value (0.05)	18.58
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	17.3

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.496	95% Adjusted Gamma UCL	0.532

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.829	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.889	Data Not Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.21	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level	

Data appear Approximate Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-2.408	Mean of logged Data	-1.571
Maximum of Logged Data	-0.0408	SD of logged Data	0.856

Assuming Lognormal Distribution

95% H-UCL	0.571	90% Chebyshev (MVUE) UCL	0.508
95% Chebyshev (MVUE) UCL	0.607	97.5% Chebyshev (MVUE) UCL	0.745
99% Chebyshev (MVUE) UCL	1.015		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	0.447	95% BCA Bootstrap UCL	0.484
95% Standard Bootstrap UCL	0.442	95% Bootstrap-t UCL	0.518
95% Hall's Bootstrap UCL	0.414	95% Percentile Bootstrap UCL	0.45
90% Chebyshev(Mean, Sd) UCL	0.564	95% Chebyshev(Mean, Sd) UCL	0.681
97.5% Chebyshev(Mean, Sd) UCL	0.843	99% Chebyshev(Mean, Sd) UCL	1.162

Suggested UCL to Use

95% H-UCL	0.571

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.

Please verify the data were collected from random locations.

If the data were collected using judgmental or other non-random methods,

then contact a statistician to correctly calculate UCLs.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Molybdenum

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!

Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!

The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Molybdenum was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nickel

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!

Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!

The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Nickel was not processed!

Phosphorus

General Statistics

Total Number of Observations	13	Number of Distinct Observations	7
		Number of Missing Observations	0
Minimum	2300	Mean	2615
Maximum	3200	Median	2500
SD	244.4	Std. Error of Mean	67.79
Coefficient of Variation	0.0935	Skewness	1.409

Normal GOF Test

Shapiro Wilk Test Statistic	0.85	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.22	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	2736	95% Adjusted-CLT UCL (Chen-1995)	2755
		95% Modified-t UCL (Johnson-1978)	2741

Gamma GOF Test

A-D Test Statistic	0.828	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.732	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.225	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.236	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics

k hat (MLE)	132.2	k star (bias corrected MLE)	101.8
Theta hat (MLE)	19.78	Theta star (bias corrected MLE)	25.7
nu hat (MLE)	3438	nu star (bias corrected)	2646
MLE Mean (bias corrected)	2615	MLE Sd (bias corrected)	259.3
		Approximate Chi Square Value (0.05)	2527
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	2511

Assuming Gamma Distribution

95% Approximate Gamma UCL	2738	95% Adjusted Gamma UCL	2756

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.876	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.889	Data Not Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.217	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.215	Data Not Lognormal at 10% Significance Level	

Data Not Lognormal at 10% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lognormal Statistics

Minimum of Logged Data	7.741	Mean of logged Data	7.865
Maximum of Logged Data	8.071	SD of logged Data	0.0892

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	2809
95% Chebyshev (MVUE) UCL	2897	97.5% Chebyshev (MVUE) UCL	3020
99% Chebyshev (MVUE) UCL	3260		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	2727	95% BCA Bootstrap UCL	2738
95% Standard Bootstrap UCL	2722	95% Bootstrap-t UCL	2829
95% Hall's Bootstrap UCL	3459	95% Percentile Bootstrap UCL	2723
90% Chebyshev(Mean, Sd) UCL	2819	95% Chebyshev(Mean, Sd) UCL	2911
97.5% Chebyshev(Mean, Sd) UCL	3039	99% Chebyshev(Mean, Sd) UCL	3290

Suggested UCL to Use

95% Student's-t UCL	2736

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Potassium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	7
		Number of Missing Observations	0
Minimum	4100	Mean	4415
Maximum	4700	Median	4400
SD	207.5	Std. Error of Mean	57.56
Coefficient of Variation	0.047	Skewness	-0.175

Normal GOF Test

Shapiro Wilk Test Statistic	0.937	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.121	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	4518	95% Adjusted-CLT UCL (Chen-1995)	4507
		95% Modified-t UCL (Johnson-1978)	4518

Gamma GOF Test

A-D Test Statistic	0.31	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.732	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.13	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.236	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	487.3	k star (bias corrected MLE)	374.9
Theta hat (MLE)	9.062	Theta star (bias corrected MLE)	11.78
nu hat (MLE)	12669	nu star (bias corrected)	9747
MLE Mean (bias corrected)	4415	MLE Sd (bias corrected)	228
		Approximate Chi Square Value (0.05)	9518
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	9486

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Assuming Gamma Distribution

95% Approximate Gamma UCL	4521	95% Adjusted Gamma UCL	4537

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.935	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.889	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.126	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	8.319	Mean of logged Data	8.392
Maximum of Logged Data	8.455	SD of logged Data	0.0472

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	4589
95% Chebyshev (MVUE) UCL	4668	97.5% Chebyshev (MVUE) UCL	4777
99% Chebyshev (MVUE) UCL	4991		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	4510	95% BCA Bootstrap UCL	4492
95% Standard Bootstrap UCL	4506	95% Bootstrap-t UCL	4521
95% Hall's Bootstrap UCL	4507	95% Percentile Bootstrap UCL	4500
90% Chebyshev(Mean, Sd) UCL	4588	95% Chebyshev(Mean, Sd) UCL	4666
97.5% Chebyshev(Mean, Sd) UCL	4775	99% Chebyshev(Mean, Sd) UCL	4988

Suggested UCL to Use

95% Student's-t UCL	4518

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Selenium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	9
		Number of Missing Observations	0
Minimum	0.25	Mean	0.321
Maximum	0.39	Median	0.32
SD	0.0397	Std. Error of Mean	0.011
Coefficient of Variation	0.124	Skewness	-0.209

Normal GOF Test

Shapiro Wilk Test Statistic	0.955	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.185	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	0.34	95% Adjusted-CLT UCL (Chen-1995)	0.338
		95% Modified-t UCL (Johnson-1978)	0.34

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Gamma GOF Test

A-D Test Statistic	0.417	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.732	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.2	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.236	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	68.71	k star (bias corrected MLE)	52.9
Theta hat (MLE)	0.00467	Theta star (bias corrected MLE)	0.00606
nu hat (MLE)	1786	nu star (bias corrected)	1376
MLE Mean (bias corrected)	0.321	MLE Sd (bias corrected)	0.0441
		Approximate Chi Square Value (0.05)	1290
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	1279

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.342	95% Adjusted Gamma UCL	0.345

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.942	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.889	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.208	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-1.386	Mean of logged Data	-1.144
Maximum of Logged Data	-0.942	SD of logged Data	0.127

Assuming Lognormal Distribution

95% H-UCL	0.343	90% Chebyshev (MVUE) UCL	0.355
95% Chebyshev (MVUE) UCL	0.37	97.5% Chebyshev (MVUE) UCL	0.391
99% Chebyshev (MVUE) UCL	0.433		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	0.339	95% BCA Bootstrap UCL	0.336
95% Standard Bootstrap UCL	0.338	95% Bootstrap-t UCL	0.339
95% Hall's Bootstrap UCL	0.339	95% Percentile Bootstrap UCL	0.338
90% Chebyshev(Mean, Sd) UCL	0.354	95% Chebyshev(Mean, Sd) UCL	0.369
97.5% Chebyshev(Mean, Sd) UCL	0.389	99% Chebyshev(Mean, Sd) UCL	0.43

Suggested UCL to Use

95% Student's-t UCL	0.34

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Silver

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!

Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!

The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Silver was not processed!

Sodium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	8
		Number of Missing Observations	0
Minimum	250	Mean	297.7
Maximum	400	Median	290
SD	37.67	Std. Error of Mean	10.45
Coefficient of Variation	0.127	Skewness	1.638

Normal GOF Test

Shapiro Wilk Test Statistic	0.858	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.2	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	316.3	95% Adjusted-CLT UCL (Chen-1995)	319.9
		95% Modified-t UCL (Johnson-1978)	317.1

Gamma GOF Test

A-D Test Statistic	0.501	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.732	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.175	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.236	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	74.1	k star (bias corrected MLE)	57.05
Theta hat (MLE)	4.017	Theta star (bias corrected MLE)	5.218
nu hat (MLE)	1927	nu star (bias corrected)	1483
MLE Mean (bias corrected)	297.7	MLE Sd (bias corrected)	39.41
		Approximate Chi Square Value (0.05)	1395
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	1383

Assuming Gamma Distribution

95% Approximate Gamma UCL	316.6	95% Adjusted Gamma UCL	319.4

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.906	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.889	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.176	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level	

Data appear Lognormal at 10% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lognormal Statistics

Minimum of Logged Data	5.521	Mean of logged Data	5.689
Maximum of Logged Data	5.991	SD of logged Data	0.119

Assuming Lognormal Distribution

95% H-UCL	316.4	90% Chebyshev (MVUE) UCL	327
95% Chebyshev (MVUE) UCL	340.4	97.5% Chebyshev (MVUE) UCL	358.8
99% Chebyshev (MVUE) UCL	395.2		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	314.9	95% BCA Bootstrap UCL	318.5
95% Standard Bootstrap UCL	314.1	95% Bootstrap-t UCL	324.7
95% Hall's Bootstrap UCL	404.7	95% Percentile Bootstrap UCL	315.4
90% Chebyshev(Mean, Sd) UCL	329	95% Chebyshev(Mean, Sd) UCL	343.2
97.5% Chebyshev(Mean, Sd) UCL	362.9	99% Chebyshev(Mean, Sd) UCL	401.7

Suggested UCL to Use

95% Student's-t UCL	316.3

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Strontium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	3
Number of Detects	2	Number of Non-Detects	11
Number of Distinct Detects	2	Number of Distinct Non-Detects	1
Minimum Detect	0.6	Minimum Non-Detect	0.5
Maximum Detect	0.7	Maximum Non-Detect	0.5
Variance Detects	0.005	Percent Non-Detects	84.62%
Mean Detects	0.65	SD Detects	0.0707
Median Detects	0.65	CV Detects	0.109
Skewness Detects	N/A	Kurtosis Detects	N/A
Mean of Logged Detects	-0.434	SD of Logged Detects	0.109

Warning: Data set has only 2 Detected Values.

This is not enough to compute meaningful or reliable statistics and estimates.

Normal GOF Test on Detects Only

Not Enough Data to Perform GOF Test

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.523	KM Standard Error of Mean	0.0226
90KM SD	0.0576	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.563	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.56	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.591	95% KM Chebyshev UCL	0.621
97.5% KM Chebyshev UCL	0.664	99% KM Chebyshev UCL	0.748

Gamma GOF Tests on Detected Observations Only

Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	168.7	k star (bias corrected MLE)	N/A
Theta hat (MLE)	0.00385	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	674.7	nu star (bias corrected)	N/A
Mean (detects)	0.65		

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.523	SD (KM)	0.0576
Variance (KM)	0.00331	SE of Mean (KM)	0.0226
k hat (KM)	82.57	k star (KM)	63.57
nu hat (KM)	2147	nu star (KM)	1653
theta hat (KM)	0.00633	theta star (KM)	0.00823
80% gamma percentile (KM)	0.577	90% gamma percentile (KM)	0.609
95% gamma percentile (KM)	0.635	99% gamma percentile (KM)	0.688

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.0301
Approximate Chi Square Value (N/A, α)	1559	Adjusted Chi Square Value (N/A, β)	1546
95% KM Approximate Gamma UCL	0.554	95% KM Adjusted Gamma UCL	0.559

Lognormal GOF Test on Detected Observations Only

Not Enough Data to Perform GOF Test

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.378	Mean in Log Scale	-1.039
SD in Original Scale	0.149	SD in Log Scale	0.38
95% t UCL (assumes normality of ROS data)	0.452	95% Percentile Bootstrap UCL	0.447
95% BCA Bootstrap UCL	0.457	95% Bootstrap t UCL	0.471
95% H-UCL (Log ROS)	0.473		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-0.653	KM Geo Mean	0.52
KM SD (logged)	0.0984	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	0.0386	95% H-UCL (KM -Log)	N/A
KM SD (logged)	0.0984	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	0.0386		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.312	Mean in Log Scale	-1.24
SD in Original Scale	0.152	SD in Log Scale	0.359
95% t UCL (Assumes normality)	0.386	95% H-Stat UCL	0.378

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

Suggested UCL to Use

95% KM (t) UCL	0.563

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Thallium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	6
		Number of Missing Observations	0
Minimum	0.003	Mean	0.00546
Maximum	0.01	Median	0.005
SD	0.00176	Std. Error of Mean	4.8853E-4
Coefficient of Variation	0.323	Skewness	1.319

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Normal GOF Test

Shapiro Wilk Test Statistic	0.884	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.226	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.271	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	0.00633	95% Adjusted-CLT UCL (Chen-1995)	0.00646
		95% Modified-t UCL (Johnson-1978)	0.00636

Gamma GOF Test

A-D Test Statistic	0.423	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.734	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.182	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.237	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	11.58	k star (bias corrected MLE)	8.963
Theta hat (MLE)	4.7145E-4	Theta star (bias corrected MLE)	6.0937E-4
nu hat (MLE)	301.2	nu star (bias corrected)	233
MLE Mean (bias corrected)	0.00546	MLE Sd (bias corrected)	0.00182
		Approximate Chi Square Value (0.05)	198.7
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	194.2

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.00641	95% Adjusted Gamma UCL	0.00655

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.951	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk Critical Value	0.889	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.171	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.215	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-5.809	Mean of logged Data	-5.254
Maximum of Logged Data	-4.605	SD of logged Data	0.304

Assuming Lognormal Distribution

95% H-UCL	0.00648	90% Chebyshev (MVUE) UCL	0.00685
95% Chebyshev (MVUE) UCL	0.00748	97.5% Chebyshev (MVUE) UCL	0.00836
99% Chebyshev (MVUE) UCL	0.0101		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	0.00627	95% BCA Bootstrap UCL	0.00646
95% Standard Bootstrap UCL	0.00623	95% Bootstrap-t UCL	0.00664
95% Hall's Bootstrap UCL	0.00743	95% Percentile Bootstrap UCL	0.00623
90% Chebyshev(Mean, Sd) UCL	0.00693	95% Chebyshev(Mean, Sd) UCL	0.00759
97.5% Chebyshev(Mean, Sd) UCL	0.00851	99% Chebyshev(Mean, Sd) UCL	0.0103

Suggested UCL to Use

95% Student's-t UCL	0.00633

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Tin

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!

Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!

The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Tin was not processed!

Titanium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	6
		Number of Missing Observations	0
Minimum	1.2	Mean	1.377
Maximum	1.7	Median	1.3
SD	0.142	Std. Error of Mean	0.0395
Coefficient of Variation	0.103	Skewness	1.298

Normal GOF Test

Shapiro Wilk Test Statistic	0.811	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.321	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data Not Normal at 1% Significance Level	

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	1.447	95% Adjusted-CLT UCL (Chen-1995)	1.457
		95% Modified-t UCL (Johnson-1978)	1.45

Gamma GOF Test

A-D Test Statistic	1.209	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.732	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.328	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.236	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	108.2	k star (bias corrected MLE)	83.3
Theta hat (MLE)	0.0127	Theta star (bias corrected MLE)	0.0165
nu hat (MLE)	2814	nu star (bias corrected)	2166
MLE Mean (bias corrected)	1.377	MLE Sd (bias corrected)	0.151
		Approximate Chi Square Value (0.05)	2059
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	2044

Assuming Gamma Distribution

95% Approximate Gamma UCL	1.449	95% Adjusted Gamma UCL	1.459

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.829	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.889	Data Not Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.319	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.215	Data Not Lognormal at 10% Significance Level	

Data Not Lognormal at 10% Significance Level

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lognormal Statistics

Minimum of Logged Data	0.182	Mean of logged Data	0.315
Maximum of Logged Data	0.531	SD of logged Data	0.0986

Assuming Lognormal Distribution

95% H-UCL	N/A	90% Chebyshev (MVUE) UCL	1.49
95% Chebyshev (MVUE) UCL	1.541	97.5% Chebyshev (MVUE) UCL	1.612
99% Chebyshev (MVUE) UCL	1.752		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	1.442	95% BCA Bootstrap UCL	1.446
95% Standard Bootstrap UCL	1.439	95% Bootstrap-t UCL	1.497
95% Hall's Bootstrap UCL	1.49	95% Percentile Bootstrap UCL	1.438
90% Chebyshev(Mean, Sd) UCL	1.495	95% Chebyshev(Mean, Sd) UCL	1.549
97.5% Chebyshev(Mean, Sd) UCL	1.623	99% Chebyshev(Mean, Sd) UCL	1.77

Suggested UCL to Use

95% Student's-t UCL	1.447

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Uranium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	3
Number of Detects	2	Number of Non-Detects	11
Number of Distinct Detects	2	Number of Distinct Non-Detects	1
Minimum Detect	0.006	Minimum Non-Detect	0.005
Maximum Detect	0.007	Maximum Non-Detect	0.005
Variance Detects	5.0000E-7	Percent Non-Detects	84.62%
Mean Detects	0.0065	SD Detects	7.0711E-4
Median Detects	0.0065	CV Detects	0.109
Skewness Detects	N/A	Kurtosis Detects	N/A
Mean of Logged Detects	-5.039	SD of Logged Detects	0.109

Warning: Data set has only 2 Detected Values.
This is not enough to compute meaningful or reliable statistics and estimates.

Normal GOF Test on Detects Only

Not Enough Data to Perform GOF Test

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.00523	KM Standard Error of Mean	2.2578E-4
90KM SD	5.7564E-4	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.00563	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.0056	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.00591	95% KM Chebyshev UCL	0.00621
97.5% KM Chebyshev UCL	0.00664	99% KM Chebyshev UCL	0.00748

Gamma GOF Tests on Detected Observations Only

Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	168.7	k star (bias corrected MLE)	N/A
Theta hat (MLE)	3.8538E-5	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	674.7	nu star (bias corrected)	N/A
Mean (detects)	0.0065		

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.00523	SD (KM)	5.7564E-4
Variance (KM)	3.3136E-7	SE of Mean (KM)	2.2578E-4
k hat (KM)	82.57	k star (KM)	63.57
nu hat (KM)	2147	nu star (KM)	1653
theta hat (KM)	6.3348E-5	theta star (KM)	8.2287E-5
80% gamma percentile (KM)	0.00577	90% gamma percentile (KM)	0.00609
95% gamma percentile (KM)	0.00635	99% gamma percentile (KM)	0.00688

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.0301
Approximate Chi Square Value (N/A, α)	1559	Adjusted Chi Square Value (N/A, β)	1546
95% KM Approximate Gamma UCL	0.00554	95% KM Adjusted Gamma UCL	0.00559

Lognormal GOF Test on Detected Observations Only

Not Enough Data to Perform GOF Test

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.00378	Mean in Log Scale	-5.644
SD in Original Scale	0.00149	SD in Log Scale	0.38
95% t UCL (assumes normality of ROS data)	0.00452	95% Percentile Bootstrap UCL	0.00447
95% BCA Bootstrap UCL	0.00457	95% Bootstrap t UCL	0.00471
95% H-UCL (Log ROS)	0.00473		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-5.258	KM Geo Mean	0.0052
KM SD (logged)	0.0984	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	0.0386	95% H-UCL (KM -Log)	N/A
KM SD (logged)	0.0984	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	0.0386		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.00312	Mean in Log Scale	-5.845
SD in Original Scale	0.00152	SD in Log Scale	0.359
95% t UCL (Assumes normality)	0.00386	95% H-Stat UCL	0.00378

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution

Suggested UCL to Use

95% KM (t) UCL	0.00563

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Vanadium

General Statistics

Total Number of Observations	13	Number of Distinct Observations	1
Number of Detects	0	Number of Non-Detects	13
Number of Distinct Detects	0	Number of Distinct Non-Detects	1

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Vanadium was not processed!

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Zinc

General Statistics

Total Number of Observations	13	Number of Distinct Observations	4
		Number of Missing Observations	0
Minimum	3	Mean	4.077
Maximum	6	Median	4
SD	0.862	Std. Error of Mean	0.239
Coefficient of Variation	0.212	Skewness	0.758

Normal GOF Test

Shapiro Wilk Test Statistic	0.851	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.814	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.305	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.271	Data Not Normal at 1% Significance Level	

Data appear Approximate Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	4.503	95% Adjusted-CLT UCL (Chen-1995)	4.524
		95% Modified-t UCL (Johnson-1978)	4.512

Gamma GOF Test

A-D Test Statistic	0.972	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.733	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.281	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.236	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	25.27	k star (bias corrected MLE)	19.49
Theta hat (MLE)	0.161	Theta star (bias corrected MLE)	0.209
nu hat (MLE)	657	nu star (bias corrected)	506.7
MLE Mean (bias corrected)	4.077	MLE Sd (bias corrected)	0.923
		Approximate Chi Square Value (0.05)	455.5
Adjusted Level of Significance	0.0301	Adjusted Chi Square Value	448.6

Assuming Gamma Distribution

95% Approximate Gamma UCL	4.535	95% Adjusted Gamma UCL	4.605

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.862	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk Critical Value	0.889	Data Not Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.271	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.215	Data Not Lognormal at 10% Significance Level	

Data Not Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.099	Mean of logged Data	1.385
Maximum of Logged Data	1.792	SD of logged Data	0.207

Assuming Lognormal Distribution

95% H-UCL	4.555	90% Chebyshev (MVUE) UCL	4.78
95% Chebyshev (MVUE) UCL	5.099	97.5% Chebyshev (MVUE) UCL	5.542
99% Chebyshev (MVUE) UCL	6.411		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 2025-03-27 6:44:08 AM
From File	Kami Fish UCL input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nonparametric Distribution Free UCLs

95% CLT UCL	4.47	95% BCA Bootstrap UCL	N/A
95% Standard Bootstrap UCL	N/A	95% Bootstrap-t UCL	N/A
95% Hall's Bootstrap UCL	N/A	95% Percentile Bootstrap UCL	N/A
90% Chebyshev(Mean, Sd) UCL	4.794	95% Chebyshev(Mean, Sd) UCL	5.119
97.5% Chebyshev(Mean, Sd) UCL	5.57	99% Chebyshev(Mean, Sd) UCL	6.457

Suggested UCL to Use

95% Student's-t UCL 4.503

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

APPENDIX B

Air Quality Screening

1.0 INTRODUCTION

This appendix describes the screening process used to identify chemicals of potential concern (COPCs) for the inhalation human health risk assessment (HHRA). Identification of COPCs in air is part of the problem formulation step in the HHRA. The purpose of the screening process is to identify the COPCs in air emitted by the Project that have the potential to impact human health. The air quality predictions, air quality criteria, and the results of the COPC screening process are presented in this appendix.

2.0 AIR QUALITY CRITERIA

Air quality criteria were selected from the agencies described below. Primary screening criteria were based on the lowest value provided by the applicable provincial and federal agencies (i.e., Government of Newfoundland, Canadian Council of Ministers of the Environment [CCME], Health Canada). Where primary screening criteria were not available, secondary criteria were based on the World Health Organization (WHO), the United States Environmental Protection Agency (US EPA) and the California Environmental Protection Agency (CalEPA) as per Health Canada (2023). In absence of primary and secondary criteria, tertiary criteria were based on the Agency for Toxic Substances and Disease Registry (ATSDR), the Ontario Ministry of the Environment, Conservation and Parks (MECP) and the Texas Commission on Environmental Quality (TCEQ).

Canadian Council of Ministers of the Environment

Air quality in Canada is regulated by standards set by the Canadian Council of Ministers of the Environment, an inter-governmental body of federal, provincial, and territorial ministers responsible for the environment. In 2012, a Canada-wide Air Quality Management System was implemented as a national collaborative approach to reduce air pollution in Canada. As part of this initiative, the Canadian Ambient Air Quality Standards (CAAQS), which were originally established as National Ambient Air Quality Objectives under the *Canadian Environmental Protection Act* (Government of Canada 1999), were developed for the criteria air contaminants: particulate matter with nominal aerodynamic diameter of 2.5 microns or less (sometimes referred to as fine particulate matter; $PM_{2.5}$), sulphur dioxide, and nitrogen dioxide.

Government of Newfoundland

The Government of Newfoundland has generally adopted the CAAQS for assessing air quality, except for the 24-hr threshold for $PM_{2.5}$.

United States Environmental Protection Agency

National Ambient Air Quality Standards The United States Environmental Protection Agency has developed National Ambient Air Quality Standards (NAAQS) for criteria air contaminants that are considered harmful to human health as part of the *Clean Air Act*. These six criteria air contaminants include carbon monoxide, lead, nitrogen dioxide, ozone, particulate matter with nominal aerodynamic diameter of 10 microns or less (sometimes referred to as respirable particulate matter; PM_{10}), $PM_{2.5}$, and sulphur dioxide (US EPA 2024a). A primary and/or secondary standard is set for each of the criteria air contaminants. Primary standards are intended to protect public health, which include sensitive populations, such as children, the elderly, and those with pre-disposed respiratory illnesses (e.g., asthma). Secondary standards are intended to be protective of public welfare such as animals, crops, vegetation, and infrastructure.

Regional Screening Levels The US EPA (2024b) has developed regional screening levels (RSLs) for the protection of human health. The RSLs are risk-based concentrations derived from standardized equations that combine exposure assumptions with US EPA toxicity data. US EPA has developed RSLs for different media

(air, tap water, and soil) and different exposure scenarios (resident, indoor worker, and outdoor worker). For this assessment, the residential scenario was used. The RSLs are considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime. Chemical concentrations above the RSL do not necessarily mean that a health effect will occur; however, exceeding an RSL suggests that further evaluation of the potential risks may be needed. The US EPA RSLs for non-carcinogens are based on a hazard quotient (HQ) of 1.0, and RSLs for carcinogens are based on a cancer risk level of 1 in 1,000,000. For this assessment, the carcinogenic RSLs were multiplied by a factor of 10 to adjust to a risk level of 1 in 100,000 to be consistent with the acceptable cancer risk level by Health Canada. The lowest adjusted criteria between non-carcinogenic endpoints and carcinogenic endpoints was selected for screening.

World Health Organization

The World Health Organization has developed air quality guidelines for common air pollutants. These global targets are intended to reduce human exposure to air pollutants and protect public health (WHO 2010; 2021). The guidelines are intended to provide background information and guidance to governments in making risk management decisions, particularly in setting standards. These guidelines may also be used in planning processes and various management decisions at a community or regional level. Supporting information on the derivation of the WHO guidelines is available. The air quality guidelines for non-carcinogens are based on an HQ of 1.0 and a cancer risk level of 1 in 100,000 for carcinogens.

California Office of Environmental Health Hazard Assessment

The California Office of Environmental Health Hazard Assessment (OEHHA 2023) has developed reference exposure levels (RELs), which are levels of a chemical at or below which adverse health effects are not expected to occur in a human population, including in sensitive populations such as children, for a specific exposure duration (Cal OEHHA 2008). The RELs are used in risk assessments to evaluate the potential for adverse health effects from exposure to air emissions from facilities or similar localized sources in the state's Air Toxics Hot Spots Program and from widespread exposures in the Toxic Air Constituents Program. Supporting information is available for most RELs. The chronic RELs for non-carcinogens are based on an HQ of 1.0.

The Cal OEHHA does not develop RELs or air quality guidelines or objectives for carcinogens.

Ontario Ministry of the Environment, Conservation and Parks

The Ontario Ministry of the Environment, Conservation and Parks has developed Ambient Air Quality Criteria (AAQC) to assess air quality (MECP 2020). The AAQC is a concentration in air that is protective against adverse effects on human health and/or the environment.

The AAQCs are provided for 1-hour, 24-hour, and annual averaging periods. Criteria for 1-hour averaging periods were developed by the MECP to be protective against acute health effects, while criteria for 24-hour averaging periods were developed by the MECP to be protective against chronic health effects. Therefore, the 24-hour criteria developed by the MECP were not relied upon for the assessment of acute exposures as they were derived by the MECP to be protective against chronic health effects.

In general, the AAQCs for carcinogens are based on a risk level of 1 in 1,000,000. For this assessment, the AAQCs based on carcinogenic effects were multiplied by a factor of 10 to adjust to a risk level of 1 in 100,000 to be consistent with the acceptable risk level by Health Canada. The air standards for non-carcinogens are generally set at a target HQ of 1.0.

Agency for Toxic Substances and Disease Registry

The Agency for Toxic Substances and Disease Registry is a federal public health agency of the United States Department of Health and Human Services. The ATSDR has developed health-based values called minimal risk levels (MRLs). These values are estimates of how much a person may be exposed to a chemical without there being a detectable risk of health effects over a given period of time (ATSDR 2012). The ATSDR develops MRLs by reviewing the available research of a chemical and calculates a health-based value based on these data. As part of this review and calculation process, ATSDR will also consider the properties of the chemical such as how people may be exposed to the chemical (e.g., breathing air), the type of health effects associated with exposure to the chemical, and the duration and amount of chemical that people are exposed to for a health effect to happen. The ATSDR has derived MRLs for different time periods of how long people may be exposed to a chemical: acute (1 to 14 days), intermediate (15 to 364 days), and chronic (greater than or equal to 365 days).

The ATSDR MRLs are generally based on the most sensitive health outcome that was evaluated and is relevant to people. In their derivation of MRLs, the ATSDR applies margins of safety to account for uncertainty in the toxicological information, such as people who are the most sensitive to exposures to chemicals such as infants, the elderly, and nutritionally or immunologically compromised people.

The MRLs are intended to be used as comparison values for screening purposes in risk assessment. A chemical present at concentrations above the MRL does not necessarily mean that a health effect will occur but that further assessment may be needed.

Texas Commission on Environmental Quality

The Texas Commission on Environmental Quality has developed acute (1-hour) and chronic effects screening levels (ESLs) that are used in the air permitting process to evaluate emissions predicted by air dispersion modelling. The TCEQ has developed interim and final ESLs, where the approach and methods used to derive final ESLs are outlined by the TCEQ in supporting technical documents. The final ESLs are based on reference values, which are toxicological values selected from a review of available scientific data and are adjusted to an HQ of 0.3, which means that the ESL is calculated by multiplying the reference value by 0.3 (TCEQ 2015). The TCEQ has also developed air monitoring comparison values (AMCVs), which are based on reference values derived from toxicological data (i.e., lowest observed adverse effect level [LOAEL] and no observed adverse effect level [NOAEL]) (TCEQ 2015). The AMCVs are based on an HQ of 1.0. For parameters with a final ESL, the AMCV (which is based on an HQ of 1.0) was selected as the TCEQ air criteria. The ESLs for carcinogens are based on a risk level of 1 in 100,000.

The TCEQ ESL and AMCV were retrieved from the Texas Air Monitoring Information System database (TCEQ 2024). The ESLs are not ambient air standards. The ESLs are used in the air permit review process, where emissions of one contaminant from one site are evaluated at a time (emissions from multiple sites or multiple chemicals are not evaluated). If predicted airborne levels of a contaminant do not exceed the screening level, adverse health effects are not expected. If predicted ambient levels of contaminants in air exceed the screening levels, it does not necessarily indicate a problem, but that a more detailed review is needed.

2.1 Acute Air Criteria

As part of the acute inhalation HHRA COPC screening process, predicted (modelled) 1-hour and 24-hour concentrations of contaminants emitted by the Project were compared to selected 1-hour and 24-hour health-based air quality criteria, respectively. The 1-hour and 24-hour health-based air quality criteria were obtained from the following agencies and selected based on the following hierarchy of sources:

- **Primary sources**: Government of Newfoundland, CCME CAAQS/NAAQO
- **Secondary sources:** WHO**,** US EPA NAAQS**,** Cal OEHHA (acute air criteria available for 1-hour averaging period only)
- **Tertiary sources:** ATSDR**,** MECP (acute air criteria available for 1-hour averaging period only)**,** TCEQ

For diesel particulate matter, guidance provided by Health Canada (2016) was also considered in addition to the above agencies.

Generally, air quality criteria were selected first from the primary sources, then secondary sources, and lastly tertiary sources. Within each tier, the lowest health-based air criterion with supporting information was then generally selected for use in the screening process. Some exceptions were made, and a criterion may have been selected over a lower criterion depending on factors such as type of test species (i.e., human data versus animal data), study results, study quality, and how recent the study was conducted. For example, if a criterion was based on a more current scientific study and supporting information was available, then it may have been selected over a criterion with a lower value.

The acute (1-hour and 24-hour) air quality criteria available from the agencies are provided in Attachment B1-1 (1-hour) and Table 1-2 (24-hour), along with information on the derivation and rationale for the selected criteria. The air quality criteria in these tables are based on an HQ of 1.0. When background exposure is considered, the acceptable risk level is an HQ of 1.0 (Health Canada 2023). Air quality predictions for criteria air contaminants (CAC) include background exposure levels. For metals and polycyclic aromatic hydrocarbons (PAHs), background exposure levels were considered negligible as the Project is not within an urban area or within the influence of other emissions.

2.2 Chronic Air Criteria

As part of the chronic inhalation HHRA COPC screening process, predicted (modelled) annual concentrations of contaminants emitted by the Project were compared to selected annual health-based air quality criteria. The annual health-based air criteria were obtained from the following agencies and selected based on the following hierarchy of sources:

- **Primary sources**: Government of Newfoundland, CCME CAAQS/NAAQO
- **Secondary sources:** WHO**,** US EPA NAAQS**,** Cal OEHHA
- **Tertiary sources:** ATSDR**,** TCEQ

For diesel particulate matter, guidance provided by Health Canada (2023) was also considered.

As was the case for the acute exposure scenario, chronic air quality criteria were generally selected first from the primary sources, then secondary sources, and lastly tertiary sources. Within each tier, the lowest health-based air criterion with supporting information was then generally selected for use in the screening process. Some exceptions were made, and a criterion may have been selected over a lower criterion depending on factors such as type of test species (i.e., human data versus animal data), study results, study quality, and how recent the study was conducted. For example, if a criterion was based on a more current scientific study and supporting information was available, then it may have been selected over a criterion with a lower value.

For air quality criteria based on cancer effects, the values were adjusted to the cancer risk level considered acceptable by Health Canada, which is a risk level of 1 in 100,000 (i.e., 1×10^{-5}). Information on the approach used to develop the screening criteria for each of the agencies is provided in Section 2.0.

The annual air criteria available from the agencies above are provided in Attachment B1-3. Air quality predictions for criteria air contaminants (CAC) include background exposure levels. For metals and polycyclic aromatic hydrocarbons (PAHs), background exposure levels were considered negligible as the Project is not within an urban area or within the influence of other emissions.

2.3 Carcinogenic Assessment of Diesel Particulate Matter

Health Canada (2022) provides a model for the quantitative assessment of lung cancer mortality associated with exposure to diesel particulate matter. The additional lung cancer mortality (ALCM) rate per 100,000 population can be calculated with the following expression:

$$ALCM = \left(\frac{\left(e^{Exposure \times \beta}\right) - 1}{e^{Exposure \times \beta}}\right) \times BMR \times years$$

ALCM = Additional Lung Cancer Mortality (deaths per 100,000 population)
Exposure = Concentration of DPM attributed to project operations (µg/m^3)
B = Slope coefficient from the meta-analysis performed in Health Canada 2022 (unitless)
BMR = Baseline mortality rate of 45.5 from Health Canada 2022 (deaths per 100,000 population)
Years = Duration of project or project phase (years)

A site-specific air quality screening level for DPM can be derived based on a target ALCM of 1 per 100,000 population, with an assumed exposure period of 26 years (expected duration of the operations). The calculation is as follows:

$$1 = \left(\frac{\left(e^{Exposure \times \beta}\right) - 1}{e^{Exposure \times \beta}}\right) \times 45.5 \times 26$$

$$1 = 1183(1 - e^{-001196 \times Exposure})$$

$$0.999 = e^{-001196 \times Exposure}$$

$$-0.000846 = -001196 \times Exposure$$

$$Exposure = 0.071\ \mu g/m3$$

The exposure level of 0.071 µg/m^3, resulting in an ALCM of 1 in 100,000 population, was set as the site-specific air quality screening level.

2.4 Polycyclic Aromatic Hydrocarbons

The air criteria for the assessment of carcinogenic polycyclic aromatic hydrocarbons incorporated the CCME toxic equivalence factors (TEFs) (CCME 2010). . The predicted concentrations of carcinogenic polycyclic aromatic hydrocarbons were multiplied by the TEF for each specific compound and summed for comparison to the benzo(a)pyrene air criteria. The CCME TEFs used in the inhalation assessment are presented in Table 1.

Table 1: Carcinogenic Polycyclic Aromatic Hydrocarbon Toxic Equivalency Factors

Compound	CCME Toxic Equivalency Factor.
Benz(a)anthracene	0.1
Benzo(a)pyrene	1.0
Benzo(b)fluoranthene	0.1
Benzo(g,h,i)perylene	0.01
Benzo(k)fluoranthene	0.1
Chrysene	0.01
Dibenz(a,h)anthracene	1.0
Indeno(1,2,3-cd)pyrene	0.1

3.0 AIR QUALITY PROJECTIONS

Air quality predictions were provided for the receptor locations described and summarized in Table 2.

Table 2: Human Health Receptor Locations

Receptor ID	Receptor Type	Name/Notes:
L1	Previous receptor location evaluated by Alderon (2012)	Southwest shore of Long Lake South, proximal to the Project conveyors, process plant and load out facilities
L2	Previous receptor location evaluated by Alderon (2012)	Riordan Lake, proximal to and downwind of the tailings management facility (TMF)
R1	Closest Residence	Wabush - southernmost house on Snow's Drive
R2	Closest Residence	Labrador City - southernmost house on Tamarack Dr.
R3	Closest Residence	Fermont - easternmost house on Rue Des Batisseurs
S1	School	Wabush - JR Smallwod Middle School
S2	School	Labrador City - Menihek High School
S3/H2	School/Hospital	Fermont - Horizon-Blanc High School and Centre de Sante de l'Hematite (Hospital)
H1	Hospital	Labrador City - Labrador West Health Centre
LU1 to LU14	Land Use Area	Areas used for recreational activities, including hunting, gathering, trapping, snowmobiling, swimming, camping.
C1 to C469	Cabin	Cabins in the local study area that are not owned by Champion

Air quality predictions were provided by the Air Quality discipline for Project Operations, which described future air quality conditions because of fugitive dust generation and air emissions, including background exposure levels for CACs.

4.0 COPC Identification for the Inhalation Assessment

A contaminant was identified as a COPC if its maximum predicted concentration exceeded the selected health-based air criterion at any human health receptor location. Attachment B2 provides the air quality protections for CACs, metals and PAHs for each receptor location and exposure duration, along with screening against the applicable criteria. The results are summarized in the main report.

5.0 REFERENCES

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ATTACHMENT B1

Air Criteria Tables

Table 1-1: 1-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1994, 2023) CAAQS/NAAQO	WHO (2010, 2021) AQG	US EPA (2023) NAAQS	Cal OEHHA (2023) REL	ATSDR (2024) MRL	MECP (2020) AAQC	TCEQ (2024) ESL/AMCV/ReV[(a)]		
Criteria Air Contaminants											
Carbon monoxide (CO) (1-hour)	630-08-0	**35,000**	Desirable NAAQO = 15,000 **Acceptable NAAQO = 35,000**	35,000	40,100 (35,000 ppb)	23,000	-	36,200	-	NL: adopted from the CCME acceptable NAAQS	**CCME Desirable NAAQO and NL AAQS** selected as they represent a primary source
										CCME (NAAQO): Screening value was derived by the CCME (Health Canada 1994) and is based on cardiorespiratory effects in people with exercise-induced myocardial ischemia. The CCME derived a 1-hour average maximum acceptable level (35,000 µg/m^3) which is based on the maintenance of blood carboxyhemoglobin concentrations below the lowest-observed effect level (LOEL) of 2% (Allred et al. 1989; as cited in Health Canada 1994). A PBPK model developed by Coburn, Foster, and Kane was used to extrapolate a 2% blood carboxyhemoglobin concentration to an ambient carbon monoxide concentration in the air. The maximum desirable level (15,000 µg/m^3) was derived based on 1% blood carboxyhemoglobin concentration. The maximum acceptable level is an air quality concentration that is protective of the general population against health effects, while the maximum desirable level is the long term objective for air quality.	
										WHO: Screening value based on a maximum concentration of 2.5% carboxyhemoglobin in blood which is intended to be protective of non-smoking, middle-aged and elderly population groups with coronary artery disease, and fetuses of non-smoking pregnant women. The guideline is calculated using an equation that takes into account the physiological variables that have an impact on the uptake of carbon monoxide and determines the guideline that will keep carboxyhemoglobin levels below 2.5%.	
										US EPA: Screening value based on clinical evidence relating carboxyhemoglobin (carbon monoxide bound to blood hemoglobin) levels to various adverse health endpoints. The NAAQS of 35 ppm was converted to 40,100 µg/m^3 for this assessment using a molecular weight of 28.01 g/mol (values were rounded up). USEPA indicates that the NAAQs is not to be exceeded more than once per year.	
										Cal OEHHA: Screening value based on an inhalation study in humans examining the aggravation of existing angina and other cardiovascular diseases when subjects are exercising heavily (Allred et al. 1989 and Kleinman et al., 1989; as cited in Cal OEHHA 2008b). The screening values is based on a NOAEL of 1.1 to 1.3 % carboxyhemoglobin level in blood which corresponds to 23,000 µg/m^3.	
										MECP: Health-based 1-hour screening value based on the CCME NAAQO of 30 ppm (MECP 1997). The MECP used a conversion factor of 1 ppm = 1.2055 mg CO/m^3 to convert from the NAAQO of 30 ppm to a value of 36,200 mg CO/m^3, while the CCME applied a conversion factor of 1 ppm = 1.146 mg CO/m^3 in their conversion of the NAAQO. The different conversion factors relate to the assumed ambient temperature.	
Carbon monoxide (CO) (8 hour)	630-08-0	**15,000**	Desirable NAAQO = 6,000 (5 ppm) **Acceptable NAAQO = 15,000 (13 ppm)** Tolerable NAAQO = 20,000 (17 ppm)	10,000	10,300 (9000 ppb)	-	-	15,700	-	NL: adopted from the CCME acceptable NAAQS	**CCME Desirable NAAQO and NL AAQS** selected as they represent a primary source
										CCME NAAQO: Screening value is based on cardiorespiratory effects in people with exercise-induced myocardial ischemia. The maximum acceptable level (15,000 µg/m3) over an 8 hour rolling average was established based on the maintenance of blood carboxyhemoglobin concentrations below the LOEL of 2% (Allred et al. 1989; as cited in Health Canada 1994). The maximum acceptable level is an air quality concentration that is protective against effects on the environment, visibility, personal comfort, and well-being, but provides only a small margin of safety. The PBPK model developed by Coburn, Foster, and Kane was used to extrapolate an ambient carbon monoxide concentration in the air from a blood carboxyhemoglobin concentration. The maximum desirable level is based on 1% blood carboxyhemoglobin concentration, and the maximum tolerable level is based on a LOAEL of 2.9% carboxyhemoglobin. The maximum desirable level (6,000 ug/m3) is the long term goal for air quality for protection of public health.	
										WHO: Screening value is a time-weighted average 8 hour exposure derived so that the carboxyhemoglobin (carbon monoxide bound to blood hemoglobin) level of 2.5% is not exceeded (screening value for human health effect).	
										US EPA: Screening value based on clinical evidence relating carboxyhemoglobin (carbon monoxide bound to blood hemoglobin) levels to various adverse health endpoints including hypoxia, cardiovascular effects, reproductive effects, central nervous system effects, respiratory effects and impairment of prenatal development. For this assessment, the NAAQS of 9 ppm was converted to 10,300 µg/m^3 using a molecular weight of 28.01 g/mol. US EPA indicates that this value is not to be exceeded more than once per year.	
										MECP: Health-based 24-hour screening value. CO is a criteria air pollutant and for this reason Ontario has adopted the Federal-provincial NAAQO for CO (described above). The MECP 24-hour AAQC uses a conversion factor of 1 ppm = 1.2055 to convert from ppm to mg/m3, while a conversion factor of 1 ppm = 1.146 mg CO/m3 was applied in the conversion of the NAAQO.	
Nitrogen dioxide (NO_2)	10102-44-0	**79 (42 ppb)**	**CAAQS = 79 (42 ppb)**	200	188 (100 ppb)	470	-	400	-	NL: Adopted from the CCME AAQO	**CCME Desirable NAAQO and NL AAQS** selected as they represent a primary source
										CCME CAAQS: The CAAQS is a three-year average of the annual 98th percentile of the daily maximum 1-hour average nitrogen dioxide concentrations. The CAAQS of 42 ppb was converted to 79 µg/m3 using a molecular weight of 46.01 g/mol.	
										WHO: Screening value based on studies of bronchial responsiveness among asthmatics (WHO 2021). This value is based on short-term animal and human experimental toxicology studies which associate significant health effects (including adverse respiratory effects) with exposure to NO_2 levels greater than 200 µg/m^3. In a 1992 meta-analysis which assessed 20 respiratory studies of asthmatics and 5 studies of health subjects, there was a significant increase in airway responsiveness associated with a range of constrictor stimuli in asthmatic subjects exposed to NO_2 concentratons ≥200 µg/m^3 (Folinsbee 1992, as cited in WHO 2005). WHO (2021) has specified that this short-term guideline of 200 µg/m^3, originally reported in 2005 (WHO 2005), remains valid.	
										US EPA: Screening value based on the 98th percentile of maximum 1-hour daily concentrations, averaged over a three-year period. The NAAQS is protective of a broad range of respiratory effects in sensitive populations, such as those with asthma and those who spend time near major roadways. The NAAQS of 100 ppb was converted to 188 µg/m3 for this assessment using a molecular weight of 46.01 g/mol.	
										Cal OEHHA: Screening value is based on a study where sensitive humans (asthmatics) were exposed to 0.25 ppm (470 µg/m3) of NO2 for 1-hour (Mohsenin 1987; as cited in Cal OEHHA 2008b). The critical effect was an increase in airway reactivity. No uncertainty factors were applied to the NOAEL of 0.25 ppm (470 µg/m3), which was adopted as the reference exposure level (REL) and California ambient air quality standard to protect against mild adverse effects.	
										MECP: Health-based 1-hour screening value; however, the specific health endpoint is not indicated by MECP. The 1-hour screening value is considered to be below any adverse effects level.	

Table 1-1: 1-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1994, 2023) CAAQS/NAAQO	WHO (2010, 2021) AQG	US EPA (2023) NAAQS	Cal OEHHA (2023) REL	ATSDR (2024) MRL	MECP (2020) AAQC	TCEQ (2024) ESL/AMCV/ReV[(a)]		
Sulfur dioxide (SO_2)	7446-09-05	**170 (65 ppb)**	**CAAQS = 170 (65 ppb)**	-	197 (75 ppb)	660	-	100 (40 ppb)	-	NL: Adopted from the CCME AAQO	**CCME Desirable NAAQO and NL AAQS** selected as they represent a primary source
										CCME CAAQS: Screening value was developed based on respiratory health problems, focused on susceptible populations (e.g. asthmatic children and adults), and environmental impacts such as acid rain and smog (CCME 2017). The metric is the 3-year average of the 99th percentile of the sulphur dioxide daily maximum 1-hour average concentration. The CAAQS of 65 ppb was converted to 170 µg/m3 using a molecular weight of 64.07 g/mol.	
										US EPA: Screening value based on epidemiological evidence of increased emergency department visits and hospitalizations associated with sulphur dioxide concentrations in the range of 75 to 150 ppb (197 to 393 µg/m3) . The previous SO2 standards (0.14 ppm 24-hour and 0.03 ppm annual) will remain in effect in certain areas: (1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and (2) any area for which an implementation plan providing for attainment of the current (2010) standard has not been submitted and approved and which is designated nonattainment under the previous SO2 standards or is not meeting the requirements of a SIP call under the previous SO2 standards (40 CFR 50.4(3)). A SIP call is an EPA action requiring a state to resubmit all or part of its State Implementation Plan to demonstrate attainment of the required NAAQS. For the pupose of this assessment, the NAAQS of 75 ppb was converted to 197 µg/m3 using a molecular weight of 64.07 g/mol.	
										MECP: MECP used a conversion factor of 0.6 to convert the AAQC for the 10-minute averaging time (67 ppb; 176 µg/m3) to a 1-hour averaging time of 40 ppb. The 10-minute value was derived based on the USEPA and Health Canada meta-analyses of chamber studies of exercizing asthmatics, who are prone to the health effects of bronchoconstriction. Bronchoconstriction is a well-supported mode of action in SO2 respiratory morbidity. For this assessment, the units were converted from ppb to ug/m3 using the conversion rate of 1 ppb = 2.66 ug/m3 provided by the MECP (under the assumption of 20oC and 1 atmosphere, rounded).	
										Cal OEHHA: Screening value based on impairment of airway function (bronchoconstriction) especially in asthmatics (Linn et al. 1987; as cited in Cal OEHHA 2008b). After reviewing human several studies on acute exposures of normal, asthmatic, and atopic (susceptible to hypersensitive allergic reactions) individuals to low concentrations of SO2 (0.25 to 2.0 ppm; 1 to 5 µg/m3), Cal OEHHA staff concluded that exposure to 0.25 ppm, the California Ambient Air Quality Standard (Cal AAQS) for SO2, would not result in respiratory effects causing discomfort in sensitive individuals exposed for one hour. The Cal AAQS for SO2 is intended to protect sensitive individuals (i.e., exercising asthmatics) from lower respiratory effects of acute exposure. Cal OEHHA concluded that an exposure concentration of 0.25 ppm SO2 for 1-hour is comparable to a NOAEL in sensitive individuals. It was determined by Cal OEHHA that the NOAEL would be protective of asthmatic individuals because adverse effects are consistently observed only at higher concentrations with participants undertaking moderate exercise and there is also an inconsistency in response to SO2 exposure at lower concentrations.	
Diesel particulate matter (DPM)	N/A	-	**10 (Health Canada 2016)**	-	**-**	-	-	**-**	63	Health Canada: Screening value based on a LOAEL of 100 µg/m3 for respiratory effects (increased airway resistance and inflammation) in healthy subjects exposed to DPM for 2 hours (Health Canada 2016). An uncertainty factor of 10 was applied.	**Health Canada** guideline (10 ug/m^3) selected as it is from a primary source.
										TCEQ: Interim screening value based on 2 hour human inhalation studies in which a minimal LOAEL of 100 µg/m3 was selected as the POD based on mild pulmonary inflammation. This value was adjusted to a 1-hour exposure and an uncertainty factor of 2 was applied for the use of a LOAEL that showed minimal effects to derive a reference value (ReV) of 63 µg/m3 (PM), based on a target HQ=1. The interim ESL adjusted for a target HQ of 0.3 to derive the ESL of 19 ug/m3 (TCEQ, 2015), which is not used for this assessment.	
Metals											
Aluminum	7429-90-5	-	-	-	-	-	-	**-**	**50**	TCEQ: Screening value (AMCV) based on a study of male rats exposed to aluminum at concentrations of 10, 50, 100, 200 and 1000 mg/m3 for 4 hours, in which a NOAEL and LOAEL for increased enzymatic alkaline phosphatase activities of 10 and 50 mg/m3 was observed, respectively (Thompson et al. 1986; as cited in TCEQ 2021) . The NOAEL of 10 mg/m3 was selected by TCEQ as the point of departure (POD) to derive the 1-hour screening value. This POD was then adjusted to 15.874 mg/m3 to account for exposure duration and animal-to-human concentration. Uncertainty factors were applied for interspecies variability (3), intraspecies variability (10) and database uncertainties (6) to derive a AMCV of 0.04975 mg/m3 or 50 µg/m3, based on a target HQ=1. Criteria specific to the respirable PM <4 um fraction.	**TCEQ**- TCEQ value selected as it is the only available threshold and supporting documentation on the derivation of the 1-hour threshold is available.
Antimony	7440-36-0	-	-	-	-	-	**1**	-	5	ATSDR: Screening value is based on a study that exposed rats to 0, 3.75, 7.5, 15, 30, or 60 mg/m^3 antimony trioxide (0, 3.1, 6.3, 12, 25, and 50 mg Sb/m^3) for 6 hours/day, 5 days/week for 13 exposures in a 17-day period . Although the mice were exposed to antimony trioxide over a 17-day period, the animals were only exposed for 13 times and the study was considered to be more reflective of effects associated with acute duration exposure than intermediate-duration exposure. Minimal to mild squamous metaplasia was observed in the epiglottis epithelium at ≥25 mg Sb/m^3; the incidences were 0/10 in controls and 2/10, 4/9, 10/10, and 10/10 in the 6.3, 12, 25, and 50 mg Sb/m^3 groups, respectively. The MRL is based on a BMCL10 of 0.94 mg Sb/m3 (human equivalent BMCL10 of 0.035 mg Sb/m^3) and an uncertainty factor of 30 (3 for extrapolation from animals to humans with dosimetric adjustments and 10 for human variability). (NTP 2016; as cited in ATSDR 2019).	**ATSDR MRL** selected as it is the lowest crtiteria among tertiary sources
										TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and ACGIH. The selected OEL of 0.5 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	
Arsenic	7440-38-2	-	-	-	-	0.2	-	-	**9.9**	Cal OEHHA: Screening value based on a study by Nagymajtenyi et. al. (1985; as cited in Cal OEHHA 2014) which found decreased fetal weight in mice following maternal inhalation of As2O3 for 4 hours/day during gestation days 9 to 12. A statistically significant decrease in the weight of fetuses was observed in all concentrations used in the study; therefore, a NOAEL was not available. A LOAEL of 0.26 mg/m3 and an uncertainty factor of 1,000 (10 for a lack of a NOAEL value, 10 for interspecies differences between mice and humans, and 10 for human interindividual differences) was used to derive the screening value.	
										TCEQ: Screening value (AMCV) based on a study where female rats were exposed to 0, 0.3, 3, and 10 mg/m3 arsenic trioxide for 6 hours/day for multiple days (Holson et al. 1999; as cited in TCEQ 2012). The NOAEL and LOAEL for maternal effects (i.e., rales) were 3,000 and 10,000 µg/m3, respectively. The TCEQ chose the NOAEL of 3,000 µg/m3 as the point of departure. The NOAEL was adjusted for exposure duration (5,451 µg/m3) and a human equivalent concentration of 0.714 (3,891.3 µg/m3). Uncertainty factors were applied for interspecies variability (3), intraspecies variability (10) and database uncertainties (10), resulting in a threshold of 13 µg/m3 for arsenic trioxide. The threshold for arsenic trioxide was adjusted for arsenic (arsenic trioxide is 76% arsenic by weight), resulting in an acute Air Monitoring Comparison Value (AMCV) of 9.9 µg/m3 based on a target HQ=1.	**TCEQ AMCV:** The TCEQ AMCV was selected over the CalOEHHA REL because it is based on a bounded study where both a NOAEL and LOAEL is avaaiilable. As no NOAEL was found in the CalOEHHA REL additional uncertinaty factors were applied that may unncessarily increase the conservatism of the screening criteria. Also the primarly study used by TCEQ is more recent.
Barium	7440-39-3	-	-	-	-	-	-	-	**5**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from ASTDR, FRG-MAK, NIOSH, OSHA, ACGIH. The selected OEL of 0.5 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria

Table 1-1: 1-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1994, 2023) CAAQS/NAAQO	WHO (2010, 2021) AQG	US EPA (2023) NAAQS	Cal OEHHA (2023) REL	ATSDR (2024) MRL	MECP (2020) AAQC	TCEQ (2024) ESL/AMCV/ReV[(a)]		
Beryllium	7440-41-7	-	-	-	-	-	-	-	**0.02**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from OSHA. The selected OEL of 2 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria
Bismuth	7440-69-9								**50**	TCEQ: Screening valueis an interim effects screening level (ESL), based on Occupational Exposure Limits (OEL) from NIOSH, OSHA. The selected OEL of 5000 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ). Screening value based on bismuth telluride as a surrogate .	**TCEQ ESL** selected as it is the only available criteria
Cadmium	7440-43-9	-	-	-	-	-	-	-	**18**	TCEQ: Screening value (AMCV) based on immunotoxicity in Swiss albino mice exposed to cadmium chloride as an aerosol for 2 hours (Graham et al. 1978, as cited in TCEQ 2016). A NOAEL of 110 µg/m3 was identified from the study. The NOAEL was adjusted to a 1-hour exposure (138.6 µg/m3). A point of departure human equivalency concentration (PODHEC) of 554 µg cadmium/m3 was derived from the study and an uncertainty factor of 30 was applied (3 for extrapolation from animals to humans and 10 to account for intraspecies variability) to derive an acute Air Monitoring Comparison Value (AMCV) of 18 µg/m3, based on HQ=1.	**TCEQ AMCV** selected as it is the only criterion available.
Cesium	7440-46-2	-	-	-	-	-	-	-	**-**	A 1-hour screening value for Cesium is not available.	Not applicable as no 1-hour screening thresholds available. PM will be used as a surrogate for assessment.
Chromium (total or trivalent)	7440-47-3	-	-	-	-	-	-	-	**12**	TCEQ: Screening value for lung effects in hamsters exposed to chromium chloride (via inhalation) for 30 minutes (Henderson et al. 1979; as cited in TCEQ 2013). The NOAEL was 77 mg/m3 and extrapolated to a 1-hour exposure (38.5 mg/m3). The human equivalent concentration (HEC) was 10.82 mg/m3 and an uncertainty factor of 300 (3 for interspecies variability, 10 for intraspecies variability and 10 for database limitations) was applied to an derive an acute (ReV) of 12 µg/m3, based on HQ=1.	**TCEQ AMCV** selected as it is the only criterion available.
Cobalt	7440-48-4	-	-	-	-	-	**0.3**	-	0.69	ATSDR: Screening value based on a NOAEL of 0.2 mg/m3 based on pulmonary immune response (i.e., increased neutrophils in bronchoalveolar lavage fluid) in female Sprague-Dawley rats exposed to cobalt sulfate heptahydrate for 4 hours (Viegas et al. 2022a, 2022b; as cited in ATSDR 2024). The NOAEL was adjusted to a human equivalent concentration NOAEL (NOAELHEC) of 0.01 mg/m3, which was selected as the point of departure. A total uncertainty factor of 30 (3 for animal to human extrapolation after dosimetric adjustment and 10 for human variability) was applied to derive an MRL of 0.0003 mg/m3 (0.3 µg/m3).	**ATSDR acute MRL** selected as it is the lowest crtiteria among tertiary sources
										TCEQ: Screening value (AMCV) based on the critical effect of respiratory irritation (coughing, sore throat and changes to forced expiratory volume) after exposure of 15 healthy male workers to hard metal dust containing 38 µg cobalt/m3 for 6 hours (Kusaka et al. 1986; as cited in TCEQ 2017). The LOAEL of 38 µg cobalt/m3 is used as the point of departure (POD) for derivation of the 1-hour reference concentration and is adjusted to a 1-hour value of 69.05 µg cobalt/m3. A total uncertainty factor of 100 was applied (10 for intrahuman variability and 10 to extrapolate from a LOAEL to NOAEL) to derive the Air Monitoring Comparison Value (AMCV), based on an HQ=1.	
Copper	7440-50-8	-	-	-	-	**100**	-	-	10	Cal OEHHA: Screening value based on a NOAEL of 1 mg copper/m^3 from a study where workers were exposed to 1 to 3 mg/m^3 copper for an unspecified amount of time (Whitman 1957; as cited in Cal OEHHA 2008b). No extrapolation for continuous exposure was applied because the exposure duration was not clearly specified in the reports. An uncertainty factor for intraspecies variability (10) was applied.	**CalEPA OEHHA REL** selected as it is the only secondary source with a criterion
										TCEQ: Screening value based on Occupational Exposure Limits (OEL) from OSHA. The selected OEL of 1 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	
Germanium	7440-56-4	-	-	-	-	-	-	-	**-**	A 1-hour screening value for germanium is not available.	Not applicable as no 1-hour screening thresholds available. PM will be used as a surrogate for assessment.
Hafnium	7440-58-6	-	-	-	-	-	-	-	**5**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, TLV. The selected OEL of 500 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Indium	7440-74-6	-	-	-	-	-	-	-	-	A 1-hour screening value for indium is not available.	Not applicable as no 1-hour screening thresholds available. PM will be used as a surrogate for assessment.
Iron	7439-89-6	-	-	-	-	-	-	-	"Must Meet NAAQS"	TCEQ: No value specific to iron. "Must Meet NAAQS" indicates that the determination of the individual species impacts are not requried if a National Ambient Air Quality Standards (NAAQS) analysis is completed for particulate matter of 2.5 and 10 microns or less (PM2.5 and PM10)	Particulate matter of 2.5 and 10 microns or less (PM2.5 and PM10) will be used as a surrogate for assessment of iron for the acute exposure period.
Lanthanum	7439-91-0	-	-	-	-	-	-	-	-	A 1-hour screening value for lanthnum is not available.	Not applicable as no 1-hour screening thresholds available. PM will be used as a surrogate for assessment.
Lead	7439-92-1	-	-	-	-	-	-	-	"Must Meet NAAQS"	TCEQ: No value specific to lead. "Must Meet NAAQS" indicates that the determination of the individual species impacts are not requried if a National Ambient Air Quality Standards (NAAQS) analysis is completed for particulate matter of 2.5 and 10 microns or less (PM2.5 and PM10)	Particulate matter of 2.5 and 10 microns or less (PM2.5 and PM10) will be used as a surrogate for assessment of iron for the acute exposure period.
Lithium	7439-93-2	-	-	-	-	-	-	-	**2**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from FRG-MAK. The selected OEL of 200 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria
Manganese	7439-96-5	-	-	-	-	-	-	-	**9.1**	TCEQ: Screening value (AMCV) based on an inhalation study where rhesus monkeys were exposed to manganese sulphate for 6 hours per day, 5 days per week for 3 weeks (total of 90 hours of exposure) (Dorman et al. 2005; as cited in TCEQ 2017). The critical effect was mild inflammatory changes to the airway with a point of departure (POD) LOAEL for 6 hours of exposure of 1.5 mg manganese/m3. The LOAEL was extrapolated from a 6 hour exposure over a single day to a 1-hour value of 2.72 mg manganese/m3. An uncertainty factor of 360 was calculated (2 for extrapolation from a LOAEL to a NOAEL, 10 for intrahuman variability, 3 for potential toxicodynamic differences between rhesus monkeys and humans and 6 to account for limitations and uncertainty in the database); however, a maximum uncertainty factor of 300 was applied. Based on HQ=1.	**TCEQ AMCV** selected as it is the only available criterion.

Table 1-1: 1-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1994, 2023) CAAQS/NAAQO	WHO (2010, 2021) AQG	US EPA (2023) NAAQS	Cal OEHHA (2023) REL	ATSDR (2024) MRL	MECP (2020) AAQC	TCEQ (2024) ESL/AMCV/ReV[(a)]		
Mercury	7439-97-6	-	-	-	-	**0.6**	-	-	0.25	Cal OEHHA: Screening value based on central nervous system disturbances in rat offspring (Danielsson et al. 1993; as cited in Cal OEHHA 2014). Maternal rats were exposed to metallic mercury vapour (1.8 mg/m3) for 1 or 3 hours/day during gestation. The offspring displayed significant dose-dependent deficits in behaviour 3 to 7 months after birth compared to controls. The behaviors measured included spontaneous motor activity, performance of a spatial learning task, and habituation to an automated test chamber. An uncertainty factor of 3000 (10 for using LOAEL for moderate to severe effects in the absence of a NOAEL, 3 for interspecies toxicokinetic differences, 10 for interspecies toxicodynamic differences, 3 for individual variability, and 3 for intraspecies differences in age differences) was used.	**CalEPA OEHHA REL** selected as it is the only secondary source with a criterion.
										TCEQ: Screening value based on Occupational Exposure Limits (OEL) from OSHA. The selected OEL of 0.025 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	
Molybdenum	7439-98-7	-	-	-	-	-	-	-	**150**	TCEQ: Screening value based on an inhalation study where rats were exposed to molybdenum trioxide (MoO3) for 6 hours per day, 5 days per week for 2 weeks (National Toxicological Program 1997, as cited in TCEQ 2021). The critical effect was decreased body weight with a point of departure NOAEL of 30 mg MoO3/m3. The LOAEL was adjusted to a 1-hour exposure duration and a human equivalent concentration (HEC) for a point of departure (POD) of 41.8 mg MoO3/m3. Uncertainty factors for intrahuman variability (10), 3 to account for potential toxicodynamic differences between rats and humans and 6 for a limited database were applied to derive a final acute reference value of 230 µg MoO3/m3 or 150 µg Mo/m3 . Based on AMCV value where target HQ=1.	**TCEQ AMCV** was selected as it is the only available criterion.
Nickel	7440-02-0	-	-	-	-	0.2	0.4	-	**1.1**	Cal OEHHA: Screening value based on a mild reduction in antibody response in mice exposed for 2 hours to nickel and nickel compounds (Graham et al. 1978; as cited by Cal OEHHA 2012). The 2 hour benchmark dose level (BMDL) was 165 µg/m3 and was extrapolated to a 1-hour concentration of 233 µg/m3. An uncertainty factor of 1000 (3 for benchmark response uncertainty, 10 for interspecies differences, and 30 for intraspecies differences) was applied.	
										ATSDR: A screening value of $1x10^{-4}$ mg Ni/m^3 was derived for nickel based on a study that exposed male rats to 0.2244 mg Ni/m3 as nickel sulfate hexahydrate 6 hours/day for 5 days. Bronchiole epithelial degeneration/hyperplasia was observed (Efremenko et al. 2017a, 2017b; as cited in ATSDR 2024). The MRL is based on a LOAEL of 0.2244 mg Ni/m^3 adjusted to continuous duration exposure and converted to a human equivalent concentration (HEC) of 0.0403 mg Ni/m^3 and divided by a total uncertainty factor of 300 (10 for the use of a LOAEL, 3 for extrapolation from animals to humans with dosimetric adjustment, and 10 for human variability).	
										TCEQ: Screening value (AMCV) is based on an exposure study in which significant bronchial constriction was observed in 12 metal plating factory workers with recurring occupationally-related respiratory problems (Cirla et al. 1985, as cited by TCEQ 2017). The subjects of the study were exposed to an aerosol of 0.3 mg/m3 of nickel sulphate (67 µg nickel/m3) in an exposure chamber for 30 minutes in which respiratory effects were significant at this level of exposure (LOAEL of 67 µg/m3) and therefore a NOAEL was not available. The exposure concentration was extrapolated to 1-hour (33.5 µg nickel/m3) and an uncertainty factor of 30 (10 for using a LOAEL and 3 for an incomplete database) was applied by TCEQ to derive an acute screening value of 1.1 µg Ni/m3. Based on AMCV value where target HQ=1.	**TCEQ AMCV** selected over CalOEHHA and ASTDR, as it is based on human health exposure.
Selenium	7782-49-2	-	-	-	-	-	-	-	**2**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and ACGIH. The selected OEL of 0.2 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Silica, crystalline	-	-	-	-	-	-	-	-	**47**	TCEQ: The screening value is an ReV based on a study that exposed rats to to 10, 50, or 100 mg/m3 quartz or carbonyl iron particles. The exposure period was over 6 h or for 6 h/d for 3 days. Animals were evaluated at 0, 24, and 48 h post-exposure as well as 1, 2, and 3 months post-exposure (Warheit et al. 1991; as cited in TCEQ 2013). Delayed increases in inflammation and cytotoxicity and the potential for the development of pulmonary lesions witbin 6 hours determined 10 mg/m3 to be the LOAEL and the relevant POD. Dosimetry adjustments for a 1 hour exposure duration was performed to determin a PODADJ of 18.2 mg/m3. A dosimetry adjustment for human exposure scenarios was performed to determine a PODHEC of 14.1 mg/m3. An uncertainty factor of 300 (3 for extrapolation from a LOAEL to a NOAEL , 3 for interspecies extrapolation, 10 for intraspecies variability, and 3 for database uncertainty) was applied. This determined the acute Rev of 47 µg/m3.	**TCEQ ESL** selected as it was the only criterion available.
Silver	7440-22-4	-	-	-	-	-	-	-	**0.1**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, and OSHA, . The selected OEL of 0.01 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it was the only criterion available.
Strontium	7440-24-6	-	-	-	-	-	-	-	20	TCEQ: Screening value based on a health endpoint (interim value, supporting documentation not available), as particulate matter. TCEQ value was not selected because supporting documentation on the derivation of the 1-hour threshold is not available. Strontium is assessed indirectly using particulate matter as a surrogate.	Criteria has no supporting documnetation. This constituent will be evaluated through particulate matteras a surrogate.
Tantalum	7440-25-7	-	-	-	-	-	-	-	**50**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH and OSHA. The selected OEL of 5000 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Tellurium	13494-80-9	-	-	-	-	-	-	-	**1**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and TLV. The selected OEL of 100 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Thallium	7440-28-0	-	-	-	-	-	-	-	**1**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, and OSHA,. The selected OEL of 0.1 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Tin	7440-31-5	-	-	-	-	-	-	-	**20**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and ACGIH. The selected OEL of 2 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Titanium	7440-32-6	-	-	-	-	-	-	-	**50**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from OSHA. The selected OEL of 5000 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ). Screening value based on titanium (IV) dioxide as a surrogate (interim, supporting documentation not available).	**TCEQ ESL** selected as it is the only available criteria

Table 1-1: 1-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1994, 2023) CAAQS/NAAQO	WHO (2010, 2021) AQG	US EPA (2023) NAAQS	Cal OEHHA (2023) REL	ATSDR (2024) MRL	MECP (2020) AAQC	TCEQ (2024) ESL/AMCV/ReV[(a)]		
Tungsten	7440-33-7	-	-	-	-	-	-	-	**10** **(50; insoluble tungsten)**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and TLV. The selected OEL of 1000 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ). Tungsten was assessed using particulate matter.	**TCEQ ESL** selected as it is the only available criteria
Uranium	7440-61-1	-	-	-	-	-	-	-	**2**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, and ACGIH. The selected OEL of 0.2 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Vanadium	7440-62-2	-	-	-	-	**30**	-	-	2.2	Cal OEHHA: Screening value based on respiratory effects (increased respiratory mucus production that was cleared by coughing) in humans exposed to vanadium pentoxide for 8 hours (Zenz & Berg 1967, as cited in Cal OEHHA 2008b). The LOAEL was 0.25 mg/m3 and the NOAEL was 0.1 mg/m3. The equivalent 1-hour LOAEL concentration was determined to be 0.3 mg/m3 using the following equation: C2 = [0.1 mg/m³]2 * 8 hours)/1-hour). An uncertainty factor of 10 was applied (1 for use of a LOAEL, 1 for interspecies variation, and 10 for intraspecies variation) (Cal OEHHA 2008b). TCEQ: Interim screening value based on an inhalation study where human subjects (n=9) were exposed to vanadium pentoxide (V2O5) dust for 8 hours (Zenz & Berg 1967, as cited in TCEQ 2021). A NOAEL of 0.1 mg V2O5 /m3 for respiratory irritation was observed, which was adjusted to a 1-hour exposure duration by TCEQ to derive a PODADJ of 0.2 mg V2O5/m3. Uncertainty factors for intrahuman variability (10) and database uncertainty (6) were then applied to derive a final acute reference value (i.e., AMCV) of 3.3 µg V2O5/m3 or 2.2 µg V/m3. Based on AMCV value where target HQ=1.	**CalEPA OEHHA REL** selected as it is the only secondary source with a criterion
Yttrium	7440-65-5	-	-	-	-	-	-	-	**10**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and TLV. The selected OEL of 1000 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria
Zinc	7440-66-6	-	-	-	-	-	-	-	**20**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from FRG-MAK. The selected OEL of 2 mg/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Zirconium	7440-67-7	-	-	-	-	-	-	-	**50**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and TLV. The selected OEL of 5000 ug/m3 was modified by an uncertainty factor of 100x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria
Polycyclic Aromatic Hydrocarbons											
Benzo(a)pyrene	50-32-8	-	-	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Concerns with benzo(a)pyrene relate to chronic carcinogenic effects. Benzo(a)pyrene exposure assessed through annual thresholds only.
Naphthalene	91-20-3	-	-	-	-	-	-	-	**500**	TCEQ: Screening value (ESL) based on a health endpoint. TCEQ applied a safety factor of 100 to the 8 hour TWA of 50 000 µg/m3. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it was the only criterion available.

Notes:
AAQC = Ambient Air Quality Criteria; AAQO = Ambient Air Quality Objective; AAQS= Ambient Air Quality Standard; ACB = air contaminant benchmark; AMCV = Air Monitoring Comparison Value; AQG = Air Quality Guideline; AQO = Air Quality Objective; ATSDR = Agency for Toxic Substances and Disease Registry; BMCL = benchmark concentration lower confidence limit; BMCL1 = benchmark concentration lower confidence limit corresponding to 1% effect; BMCLHEC = benchmark concentration lower confidence limit corresponding to 10% response and adjusted to human equivalent concentration; BMD= Benchmark Dose C = carcinogenic; CAAQS = Canadian Ambient Air Quality Standard; Cal OEHHA = California Office of Environmental Health Hazard Assessment; CAS = Chemical abstract service; CCME = Canadian Council of Ministers of the Environment; CO = Carbon monoxide; DPM = Diesel Particulate Matter; ESL = Effects screening level; FEV1 = forced expiratory volume in 1 second; g/mol = grams per mol; HEC = Human equivalent concentration; HQ = Hazard Quotient; hour = hour; ILCR = incremental lifetime cancer risk; IRIS = integrated risk information system; IUR = inhalation unit risk; LOAEL = Lowest observed adverse effect level; m3 = cubic meters; MECP = Ministry of the Environment, Conservation and Parks; milligrams per cubic meter; MRL = Minimum risk level; NAAQO= National Ambient Air Quality Objective; NAAQS = National Ambient Air Quality Standard; NC = non-carcinogenic; ng/m3 = nanograms per cubic meter; NH3 = Ammonia; NO2 = Nitrogen dioxide; NL= Newfoundland and Labrador; NOAEL = No observed adverse effect level; PM10 = particulate matter with nominal aerodynamic diameter of 10 microns or less (sometimes referred to as respirable particulate matter); PM2.5 = particulate matter with nominal aerodynamic diameter of 2.5 microns or less (sometimes referred to as fine particulate matter); OSHA= Occupational Safety and Health Administration; POD = Point of departure; PODADJ = Point of departure adjust to account for discontinuous exposure; PODHEC = Point of departure adjust to human equivalent concentration; ppb = parts per billion; ppm = parts per million; REL= Reference exposure level; ReV = Reference value; RfC = reference concentration; RSL = Regional screening level; SO2 = sulfur dioxide; TCEQ = Texas Commission on Environmental Quality; TEF= Toxic equivalency Factor; TEQ= Toxic Equivalent Quantity; TSP = Total suspended particulate; TWA= Time Weighted Average; ug/m3 = micrograms per meter cubed; um = micrometer; US EPA = United States Environmental Protection Agency; WHO = World Health Organization.

Concentrations are in microgram per cubic metre (µg/m^3), unless otherwise noted.

Concentrations in parts per billion (ppb), provided in brackets, were converted to µg/m^3 by applying the formula: molecular weight (grams per mol) x ppb / 24.45. The conversion is based on the assumption of 25 °C and an atmospheric pressure of 1.

- = Guideline not available

The MECP has converted values in ppb/ppm to µg/m³ assuming 10 °C and 760 mm Hg pressure, unless specified otherwise.

[(a)] For parameters where a final TCEQ ESL is available, the AMCV/ReV (derived based on a HQ of 1.0) were selected as the TCEQ air criteria because final ESLs were derived based on an HQ of 0.3. For parameters with interim TCEQ values, both the ESL and AMCV values were selected where the values were the same and an adjustment to the screening value was not made for parameters where supporting documentation for these interm values is not available.

Bold and highlighted = Selected air screening criterion

Table 1-2: 24-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE		TERTIARY SOURCE		Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1999, 2023) CAAQS/NAAQO	WHO (2000, 2021) AQG	US EPA (2023) NAAQS [a]	ATSDR (2024) MRL	TCEQ (2024) AMCV		
Criteria Air Contaminants									
$PM_{2.5}$	N/A	25	**CAAQS = 27**	15	35	-	-	NL: no supporting documentation	
								CCME: The 3-year average of the annual 98th percentile of the daily 24-hour average concentrations	**CCME CAAQO** selected as it is a primary source and supporting documentation is available.
								WHO: Based on non-accidental and cause-specific mortality (e.g., cardiovascular, non-malignant respiratory and cerebrovascular mortality). The guideline is derived from the 99th percentile of common distributions of daily air pollution concentrations corresponding to an average long-term concentration equivalent to the annual AQG level.	
								US EPA: Standard based on the 98th percentile of daily 24-hour concentrations averaged over 3 years and is protective of increased health effects associated with short-term PM2.5 exposure, including premature mortality and increased hospital admissions and emergency department visits. 98th percentile, averaged over 3 years	
PM_{10}	N/A	**50**	-	45	150	-	-	NL: no supporting documentation	**NL AAQS** was selected as it was the only criterion available from a primary source.
								WHO: Based on non-accidental and cause-specific mortality (e.g., cardiovascular, non-malignant respiratory and cerebrovascular mortality). The guideline is derived from the 99th percentile of common distributions of daily air pollution concentrations corresponding to an average long-term concentration equivalent to the annual AQG level.	
								US EPA: Air screening level to protect against adverse health effects of inhalable airborne particles that can be deposited in the lower (thoracic) regions of the human respiratory tract. The standard is met when a 24-hour average PM10 concentration of 150 mg/m^3 is not exceeded more than one day per year, on average over a three-year period	
Diesel Particulate Matter (DPM)	N/A	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Metals									
Aluminum	7429-90-5	-	-	-	-	-	**8.9**	TCEQ: Screening value (AMCV) based on 4 h/day for 3 days (total exposure of 12 h) acute study that identified a NOAEL and a LOAEL of 3.2 and 7 mg Al/m3, respectively, for the changes in lung weight in male hamsters (Drew 1974 as cited in TCEQ, 2021). The NOAEL was adjusted for a 24-hour exposure duration. Uncertainty factors were applied for interspecies variability (3), intraspecies variability (10) and database uncertainties (6), resulting in a threshold of 8.9 ug/m3 for aluminum, based on a target HQ=1. Criteria specific to the respirable PM <4 um fraction.	**TCEQ AMCV selected as it is the only available criteria.**
Antimony	7440-36-0	-	-	-	-	1	-	ATSDR: Screening value based on squamous metaplasia of the epiglottis respiratory endpoints. Mice were exposed to 0, 3.71, 7.43, 14.7, 30.2 and 59.4 mg/m3 antimony trioxide gas for 17 days (National Toxicological Program 2016, as cited in ATSDR 2019). A BMCL10 of 940 µg/m3 was identified as the point of departure. The BMCL10 was adjusted for a human equivalency concentration (HEC) (35 µg/m3). Uncertainty factors for extrapolation from animals to humans using dosimetric adjustments (3), and human variability (10) were applied, for a total uncertainty factor of 30. The acute-duration inhalation MRL was adopted as the 24-hour air threshold.	No 24 hr screening value selected. The ATSDR MRL has an exposure period much greater than 24 hours, and is considered to be protective of sub-chrnoic rather than acure expposure.
Arsenic	7440-38-2	0.3	-	-	-	-	**5.4** [d]	NL: Based on the air criteria of other provincial regulations. No supporting documentation available. Confirmed by email correspondence with NL ECC.	
								TCEQ: Screening value (AMCV) based on a study where female rats were exposed to 0, 0.3, 3, and 10 mg/m3 arsenic trioxide for 6 hours/day for multiple days (Holson et al. 1999; as cited in TCEQ 2021) A NOAEL of 3000 µg/m3 and a LOAEL10,000 µg/m3, respectively, were observed for maternal effects (i.e., decreased maternal weight gain and rales), where the NOAEL was selected as the point of departure. The NOAEL of 3000 µg/m3 was then adjusted using a human equivalent concentration of 0.714 (2142 µg/m3). A total uncertainty factor of 300 were applied for interspecies variability (3), intraspecies variability (10) and database uncertainties (10), to derive a threshold of 7.14 ug/m3 for arsenic trioxide. The threshold for arsenic trioxide was adjusted for arsenic (arsenic trioxide is 76% arsenic by weight), resulting in a reference value of 5.4 µg/m3 which was selected by the TCEQ as the interim 24-hour AMCV for arsenic.	**TCEQ AMCV** selected as it is the only available criteria.
Barium	7440-39-3	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Beryllium	7440-41-7	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Bismuth	7440-69-9	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Cadmium	7440-43-9	2	-	-	-	0.03	**0.55**	NL: Based on the air criteria of other provincial regulations. No supporting documentation available. Confirmed by email correspondence with NL ECC.	
								ATSDR: Screening value based on a LOAEL of 88 µg/m3 for respiratory effects in rats exposed to cadmium oxide for 6.2 hours/day, 5 days/week for 2 weeks (National Toxicological Program 1995, as cited in ATSDR 2012). A NOAEL was not available from this study because effects were observed in all concentrations tested. The LOAEL was adjusted for continuous exposure (88 µg cadmium/m3 x 6.2 hours/24-hours x 5 days/7 days) and for a regional deposited dose ratio in the pulmonary region of 0.617 to determine a human equivalent concentration (HEC; 10 µg/m3). An uncertainty factor of 300 (3 for extrapolating from animals to humans, 10 for a use of a LOAEL and 10 for human variability) was applied to the HEC (10 mg/m3).	
								TCEQ: Screening value based on the same study used to derive the ATSDR MRL. The LOAEL was 0.088 mg/m3 (total of 62 hours of exposure) (National Toxicological Program 1995, as cited in TCEQ 2016). The LOAEL was not extrapolated to a 24-hour exposure. The LOAEL was adjusted for a regional deposited dose ratio (1.87), resulting in a human equivalent concentration point of departure (PODHEC) of 165 µg/m3. An uncertainty factor of 300 was applied (3 for interspecies variability, 10 for intraspecies variability and 10 for use of a LOAEL) to derive an AMCV of 0.55 µg/m3 based on an HQ=1.	**TCEQ AMCV** selected preferentially over the ATSDR MRL because the the ATSDR MRL has an exposure period much greater than 24 hours, and is considered to be protective of sub-chrnoic rather than acure expposure.
Cesium	7440-46-2	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate

Table 1-2: 24-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE		TERTIARY SOURCE		Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1999, 2023) CAAQS/NAAQO	WHO (2000, 2021) AQG	US EPA (2023) NAAQS [(a)]	ATSDR (2024) MRL	TCEQ (2024) AMCV		
Chromium (total or trivalent)	7440-47-3	-	-	-	-	0.1	-	ATSDR: Screening value is an MRL for chromium (III) soluable salts as it was the most conservative of the MRLs. The MRL is based on a study that exposed rats to chromium salts 0, 3, 10, or 30 mg chromium(III)/m3 for 6 hours/day, 5 days/week for 13 weeks. Observations of histopathological changes to the nose, larynx, lung, and respiratory lymphatic tissues and increased relative lung weight occured at ≥3 mg chromium(III)/m3 (Hilaski RJ, et al. 1999; as cited in ATSDR 2012). This LOAEL was adjusted to 0.54 mg chromium(III)/m3 for intermittent exposure and converted to a $LOAEL_{HEC}$ of 0.04 mg chromium(III)/m3. An uncertainty factor of 300 (10 for use of a LOAEL, 3 for extrapolation from animals to humans, 10 for human variability) was applied.	No 24 hr screening value selected. The ATSDR MRL has an exposure period much greater than 24 hours, and is considered to be protective of sub-chrnoic rather than acure expposure.
Cobalt	7440-48-4	-	-	-	-	-	**0.095**	TCEQ: Screening value based on respiratory effects in occupationally-exposed people (TCEQ 2017). The 6 hour LOAEL of 38 µg/m3 was adjusted to 24-hours using the following equation: C2 = C1 * (T1/T2) , where C1 = 38 µg/m3, T1 = 6 hours and T2 = 24-hours . An uncertainty factor of 100 was applied (10 for interspecies variability, 10 for use of a LOAEL) to derive an AMCV of 0.095, based on a target HQ=1.	**TCEQ AMCV** selected as it is the only available criteria.
Copper	7440-50-8	50	-	-	-	-	-	NL: Based on the air criteria of other provincial regulations. No supporting documentation available. Confirmed by email correspondence with NL ECC.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Germanium	7440-56-4	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Hafnium	7440-58-6	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Indium	7440-74-6	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Iron	7439-89-6	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Lanthanum	7439-91-0	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Lithium	7439-93-2	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Lead	7439-92-1	2	-	-	-	-	-	NL: Based on the air criteria of other provincial regulations. No supporting documentation available. Confirmed by email correspondence with NL ECC.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Manganese	7439-96-5	-	-	-	-	-	**5**	TCEQ: Screening value based on an inhalation study where rhesus monkeys were exposed to manganese sulphate for 6 hours per day, 5 days per week for 3 weeks (total of 90 hours of exposure) (Dorman et al. 2005, as cited in TCEQ 2017). The critical effect was mild inflammatory changes to the airway with a point of departure LOAEL (6 hours of exposure) of 1.5 mg Mn/m3. The LOAEL did not require adjustment to a human equivalent concentration (HEC) because the particulate deposition efficiency is the same in rhesus monkeys and humans. Uncertainty factors for extrapolation from a LOAEL to a NOAEL (2), intrahuman variability (10), 3 to account for potential toxicodynamic differences between rhesus monkeys and humans and 6 for a limited database were applied; however, a maximum uncertainty factor of 300 is used to derive an acute reference value of 5 µg/m3.	**TCEQ AMCV** selected as it is the only available criteria.
Mercury	7439-97-6	2	-	-	-	-	-	NL: Based on the air criteria of other provincial regulations. No supporting documentation available. Confirmed by email correspondence with NL ECC.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Molybdenum	7439-98-7	-	-	-	-	-	**21**	TCEQ: Screening value (AMCV) based on an inhalation study where rats were exposed to MoO3 for 6 hours per day, 5 days per week for 2 weeks (National Toxicological Program 1997, as cited in TCEQ 2021). The critical effect was decreased body weight with a point of departure NOAEL of 30 mg MoO3/m3. The LOAEL was adjusted to a 24 h exposure duration and a human equivalent concentration (HEC) for a POD of 5.75 mg MoO3/m3. Uncertainty factors for intrahuman variability (10), 3 to account for potential toxicodynamic differences between rats and humans and 6 for a limited database were applied to derive a final acute reference value of 32 µg MoO3/m3 or 21 µg Mo/m3 .	**TCEQ AMCV** selected as it is the only available criteria.
Nickel	7440-02-0	2	-	-	-	0.003	**1.1**	NL: Based on the air criteria of other provincial regulations. No supporting documentation available. Confirmed by email correspondence with NL ECC. ATSDR: A screening value of 3x10-6 mg Ni/m^3 was derived from a study that exposed rats to ≥0.04 mg Ni/m3 as nickel subsulfide for 6 hours/day, 5 days/week for 90 days. The study observed alveolitis and perivascular/peribronchiolar inflammation in the lungs of exposed rats (Oller et al. 2023 ; as cited in ATSDR 2024). The MRL is based on a benchmark dose lower confidence limit (BMCL) of 0.0014 mg Ni/m^3 adjusted to continuous duration exposure and converted to a human equivalent concentration (HEC) of 0.0000982 mg Ni/m^3 (9.82x10-5 mg Ni/m^3) and divided by a total uncertainty factor of 30 (3 for extrapolation from rats to humans with dosimetric adjustments and 10 for human variability). TCEQ: Screening value (AMCV) as PM10 based on an inhalation study where rats were exposed to Ni for 72 hours over 12 exposure days (National Toxicological Program 1996, as cited in TCEQ 2021). The critical effect was lung inflammation and increased relative lung weight with a point of departure LOAEL of 0.7 mg Ni/m3. The LOAEL was adjusted to a human equivalent concentration (HEC) for a POD of 0.9191 mg Ni/m3. Uncertainty factors for extrapolation of LOAEL to NOAEL (10), intrahuman variability (10), and potential toxicodynamic differences between rats and humans (3) were applied to derive a final acute reference value of 3.1 µg Ni/m3. The candidate interim 24-ReV of 3.1 µg Ni/m3 is higher than the 1-hour ReV of 1.1 µg Ni/m3 (based on bronchial constriction in human volunteers with occupational asthma). While associated with uncertainty that is an order of magnitude higher, the candidate interim 24-ReV supports use of the 1-hour ReV (1.1 µg Ni/m3) as the interim 24-hour ReV.	 **TCEQ AMCV** was preferentially selected as it is derived from an acute exposure study and a more recent scientific evaluation. ATSDR MRL is based on longer intermediate or chronic exposure durations.

Table 1-2: 24-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE		TERTIARY SOURCE		Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1999, 2023) CAAQS/NAAQO	WHO (2000, 2021) AQG	US EPA (2023) NAAQS [a]	ATSDR (2024) MRL	TCEQ (2024) AMCV		
Selenium	7782-49-2	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Silica, crystalline	7631-86-9	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Silver	7440-22-4	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Strontium	7440-24-6	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Tantalum	7440-25-7	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Tellurium	13494-80-9	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Thallium	7440-28-0	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Tin	7440-31-5	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Titanium	7440-32-6	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Tungsten	7440-33-7	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Uranium	7440-61-1	-	-	-	-	2	-	ATSDR: Screening value is an MRL for insoluable uranium. The MRL is based on a study that exposed dogs to 1.3, 9.3, or 10.4 mg/m3 uranium dioxide (1.1, 8.2, or 9.2 mg U/m3), 6 hours/day, 6 days/week, for 5 weeks. Observations of “very slight” renal tubular degeneration was observed in two of six dogs at 8.2 mg U/m3 (Rothstein A. 1949; as cited in ATSDR 2012). The study identified a NOAEL of 1.1 mg U/m3 for minimal microscopic lesions in the renal tubules, and was used as the POD for the derivation of the MRL. The NOAEL was adjusted for intermittent exposure to determine a NOAELADJ of 0.24 mg.m3. An uncertainty factor of 100 (10 for extrapolation from animals to humans and 10 for human variability) was applied.	No 24 hr screening value selected. The ATSDR MRL has an exposure period much greater than 24 hours, and is considered to be protective of sub-chrnoic rather than acure expposure.
Vanadium	7440-62-2	2	-	**1**	-	0.8	0.31	NL: Based on the air criteria of other provincial regulations. No supporting documentation available. Confirmed by email correspondence with NL ECC. ATSDR: Screening value based on microscopic lesions in the renal tubules of rats exposed to 0, 1, 2, or 4 mg of vanadium pentoxide/m^3 for 6 hours per day, 5 days per week for 16 days (National Toxicological Program 2002, as cited in ATSDR 2012). A LOAEL of 560 µg-V/m^3 was adjusted for exposure duration (6/24-hours, 5/7 days), yielding an adjusted LOAEL of 100 µg/m3. A human equivalent concentration LOAEL of 73 µg-V/m^3 was calculated using a regional deposited dose ratios of 0.732. Uncertainty factors for the use of a minimal LOAEL (3), extrapolation from animals to humans (3), and human variability (10) were applied for an uncertainty factor of 90. WHO: Screening value based on human occupational studies identified a LOAEL for vanadium of 20 µg/m^3, based on chronic upper respiratory tract symptoms. The observed effects, including irritation, coughing, and effects on the pharynx, were considered to be minimal at 20 µg/m^3 relative to the higher exposures of 1 mg/m^3 where more serious effects such as chronic bronchitis and pneumonia were observed. A susceptible subpopulation was not identified and an uncertainty factor of 20 (to account for use of a concentration where only minimal effects to the respiratory tract were seen and for lack of identification of a susceptible subpopulation) was selected (WHO, 2000) TCEQ: Screening value (AMCV) as PM based on an inhalation study where human subjects were exposed to V2O2 for 8 hours through inhalation (Zenz & Berg 1967; as cited in TCEQ 2021). The critical effect was respiratory irritation with a point of departure NOAEL of 0.1 mg V2O2 / m^3. The NOAEL was adjusted to a 24-hour exposure duration for a POD of 0.033 mg V2O2/m^3. Uncertainty factors for intrahuman variability (10) and database uncertainty (6) were applied to derive a final acute reference value of 0.55 µg V2O2/m^3 or 0.31 µg V/m^3 .	NL: ATSDR: **WHO AQG** selected as it is the only secondary source with criterion and supporting documentation is avaiable. TCEQ:
Yttrium	7440-65-5	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Zinc	7440-66-6	120	-	-	-	-	-	NL: Based on the air criteria of other provincial regulations. No supporting documentation available. Confirmed by email correspondence with NL ECC.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
Zirconium	7440-67-7	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate
PAHs									
Benzo(a)pyrene	50-32-8	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate

Table 1-2: 24-Hour (Acute) Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE		TERTIARY SOURCE		Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (1999, 2023) CAAQS/NAAQO	WHO (2000, 2021) AQG	US EPA (2023) NAAQS [(a)]	ATSDR (2024) MRL	TCEQ (2024) AMCV		
Naphthalene	91-20-3	-	-	-	-	-	-	Not applicable as no screening thresholds are available.	Acute exposure assessed using the 1 hour threshold/ particulate matter as a surrogate

Notes:
AAQC = Ambient Air Quality Criteria; AAQO = Ambient Air Quality Objective; AAQS= Ambient Air Quality Standards; ACB = air contaminant benchmark; AMCV = Air Monitoring Comparison Value; AQG = Air Quality Guideline; AQO = Air Quality Objective; ATSDR = Agency for Toxic Substances and Disease Registry; BMCL = benchmark concentration lower confidence limit; BMCL1 = benchmark concentration lower confidence limit corresponding to 1% effect; BMCLHEC = benchmark concentration lower confidence limit corresponding to 10% response and adjusted to human equivalent concentration; BMD= Benchmark Dose C = carcinogenic; CAAQS = Canadian Ambient Air Quality Standard; Cal OEHHA = California Office of Environmental Health Hazard Assessment; CAS = Chemical abstract service; CCME = Canadian Council of Ministers of the Environment; CO = Carbon monoxide; DPM = Diesel Particulate Matter; ESL = Effects screening level; FEV1 = forced expiratory volume in 1 second; g/mol = grams per mol; HEC = Human equivalent concentration; HQ = Hazard Quotient; hour = hour; ILCR = incremental lifetime cancer risk; IRIS = integrated risk information system; IUR = inhalation unit risk; LOAEL = Lowest observed adverse effect level; m3 = cubic meters; MECP = Ministry of the Environment, Conservation and Parks; milligrams per cubic meter; MRL = Minimum risk level; NAAQO= National Ambient Air Quality Objective; NAAQS = National Ambient Air Quality Standard; NC = non-carcinogenic; ng/m3 = nanograms per cubic meter; NH3 = Ammonia; NL= Nefoundland and Labrador; NO2 = Nitrogen dioxide; NOAEL = No observed adverse effect level; PM10 = particulate matter with nominal aerodynamic diameter of 10 microns or less (sometimes referred to as respirable particulate matter); PM2.5 = particulate matter with nominal aerodynamic diameter of 2.5 microns or less (sometimes referred to as fine particulate matter); OSHA= Occupational Safety and Health Administration; POD = Point of departure; PODADJ = Point of departure adjust to account for discontinuous exposure; PODHEC = Point of departure adjust to human equivalent concentration; ppb = parts per billion; ppm = parts per million; REL= Reference exposure level; ReV = Reference value; RfC = reference concentration; RSL = Regional screening level; SO2 = sulfur dioxide; TCEQ = Texas Commission on Environmental Quality; TEF= Toxic equivalency Factor; TEQ= Toxic Equivalent Quantity; TSP = Total suspended particulate; TWA= Time Weighted Average; ug/m3 = micrograms per meter cubed; um = micrometer; US EPA = United States Environmental Protection Agency; WHO = World Health Organization.

Concentrations are in microgram per cubic metre (µg/m^3), unless otherwise noted.
Concentrations in parts per billion (ppb), provided in brackets, were converted to µg/m^3 by applying the formula: molecular weight (grams per mol) x ppb / 24.45. The conversion is based on the assumption of 25 °C and an atmospheric pressure of 1.
- = Guideline not available
(a) US EPA values recorded as ppm or ppb have been converted from µg/m³ assuming 25 °C and an atmospheric pressure of 1.
Bold and highlighted :ted air screening criteria

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[a][b]	CalOEHHA (2023) REL [c]	ATSDR (2024) MRL	MECP (2020) AAQC [d]	TCEQ (2024) ESL/AMCV [e]		
Criteria Air Contaminants											
$PM_{2.5}$	N/A	**8.8**	**CAAQS = 8.8**	5	9	-	-	8.8	-	NL: Adopted from the CCME CAAQS CCME: CAAQS protective of human health and the environment. The standard represents a balance between achieving the best health and environmental protection possible and the feasibility and costs of reducing pollutant emissions. The metric is the 3-year average of the annual average of the daily 24-hour average concentrations. US EPA: The NAAQS is protective of adverse health effects associated with long-term PM2.5 exposure, including premature mortality, asthmatic symptoms, heart attacks, emergency room visits, and lost work/school days. Achievement is based on the annual mean, averaged over 3 years. In February 2024, US EPA announced its decision to lower the primary health-based annual standard from its current level of 12 µg/m^3 to 9.0 ug/m^3. This decision is based on review of the more recent scientific evidence on adverse effects caused by particle pollution. WHO: A long-term air quality guideline of 5 µg/m^3 was established to protect against non-accidental and cause-specific mortality (e.g., circulatory, lung cancer, and non-malignant respiratory mortality). This guideline is derived from the average of the five lowest 5th percentile levels from five studies assessed in a meta-analysis of $PM_{2.5}$ and non-accidental mortality (Chen & Hoek 2020; as cited in WHO 2021). MECP: MECP has adopted the CAAQS (described above). It reflects a 3-year average of the annual average of the daily 24-hour average concentrations.	**CCME CAAQO and NL AAQS** selected as they represent a primary source
PM_{10}	N/A	-	-	**15**	-	-	-	-	-	WHO: The PM10 annual air quality guideline reduced from 20 µg/m^3 to 15 µg/m^3. This reflects the new evidence of effects on mortality occurring at concentrations below 20 µg/m^3. In this update of the air quality guidelines, an analysis was introduced to identify the most appropriate level of the long-term air quality guidelines that is more formalized than what was used in 2005. However, the change from 20 µg/m^3 to 15 µg/m^3 primarily reflects the new evidence about effects occurring at low levels. It is important to note that the assessment of PM10 was based on studies that had actually measured PM10, without taking into consideration the ratios between PM10 and PM2.5. In 2005 based on empirical data, a PM10:PM2.5 ratio of 2 was used to establish the PM10 air quality guideline (WHO 2021)	**WHO** guideline selected as it is the only available criterion.
Carbon monoxide (CO)	630-08-0	-	-	-	-	-	-	-	-	Chronic screening values not available because health effects linked to CO are associated with shorter term exposures (i.e., 1- or 8- hours).	N/A
Nitrogen dioxide (NO_2)	10102-44-0	**23 (12 ppb)**	**CAAQS = 23 (12 ppb)**	10	100 (53 ppb)	-	-	-	-	NL: Adopted from the CCME CAAQS CCME CAAQS: The metric is the average over a single calendar year of all 1-hour average concentrations. The CAAQS of 12 ppb was converted to µg/m3 using a molecular weight of 46.01 g/mol. WHO: Based on non-accidental and cause-specific, respiratory mortality (e.g., Chronic obstrucive pulmonary disease, respiratory and acute lower respiratory infection mortality). This screening level is derived from average of the five lowest 5th percentile levels from five studies with the five lowest reported or estimated levels in a meta-analysis of non-accidental mortality (Chen & Hoek 2020; as cited in WHO 2021). US EPA: NAAQS based on a large body of evidence for respiratory effects from exposure to nitrogen oxides. The key clinical studies on human health effects are based on shorter exposure durations (0.5 to 3 hours). The health effects reported include increased airway responsiveness in asthmatics, small decreases in forced vital capacity and forced expiratory volume in one second (FEV1) with mild exercise in patients with chronic obstructive pulmonary disease, increased airway responsiveness to bronchoconstrictors in healthy adults, and changes in lung function in healthy adults (US EPA 1993). The key epidemiological studies on human health effects indicated increased risk of lower respiratory symptoms/disease in children (aged 5 to 12 years). Exposure to NO2 in occupational settings was associated with bronchial pneumonia and bronchitis (25 to 100 ppm). In high occupational exposure cases (>200 ppm), effects ranged from hypoxemia/transient airway obstruction to death (US EPA 1993). The NAAQS is a primary and secondary value, which is protective of "sensitive" populations such as asthmatics, children, and the elderly. The NAAQS of 53 ppb was converted to µg/m3 for this assessment using a molecular weight of 46.01 g/mol.	**CCME CAAQO and NL AAQS** selected as they represent a primary source
Sulphur dioxide (SO_2)	7446-09-05	**10 (4 ppb)**	**CAAQS = 10 (4 ppb)**	-	-	-	-	-	-	NL: Adopted from the CCME CAAQS CCME CAAQS: The annual screening value of 10 µg/m3 (4.0 ppb) is intended to be applied to the average over a single calendar year of all the 1-hour average SO2 concentrations.Based upon protection of human health and the environment. The CAAQS of 4 ppb was converted to µg/m3 using a molecular weight of 64.07 g/mol.	**CCME CAAQO and NL AAQS** selected as they represent a primary source

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[a][b]	CalOEHHA (2023) REL [c]	ATSDR (2024) MRL	MECP (2020) AAQC [d]	TCEQ (2024) ESL/AMCV [e]		
Diesel Particulate Matter (DPM)		-	**Carry forward for quantiative evaluation (Health Canada, 2023)**	-	0.094 (0.0094)	5	-	-	0.15	Health Canada: Based on a more current evaluation from Health Canada (2016), there are uncertainties with quantifying unit risks based on rat bioassays of lung tumour induction and Health Canada has not derived guidance value based on cancer effects. Instead, Health Canada prefers DPM be carried forward for a quantitiatve evaluatiion of potential carocnigenoc effects related to lunch cancer from annual exposure (Health Canada 2023)	**Health Canada** approach selected as it is from a primary source
										US EPA: Screening level based on Cal OEHHA inhalation unit risk (IUR) of $3x10^{-4}$ per $\mu g/m^3$ (Cal OEHHA 1998). An incremental lifetime cancer risk of 1 in 100,000 was used to convert the IUR to a risk-based concentration of 0.033 $\mu g/m^3$. The US EPA applies a residential scenario exposure factor to derive the screening level.	
										CalEPA: Screening level based on reference concentration (RfC) of 5 µg/m3, which is derived from a NOAEL of 0.46 mg/m3 for pulmonary inflammation and histopathology in rats exposed to DPM for 16 hours/day, 6 days/week for 30 months (Ishinishi et al. 1988; as cited in US EPA 2003). The NOAEL was adjusted to a human equivalent concentration of 0.144 µg/m3 and an uncertainty factor of 30 was applied (3 for interspecies variability and 10 for intraspecies variability) to derived an RfC of 5 mg/m3. (Ishinishi et al. 1988; as cited in Cal OEHHA 1998).	
										TCEQ: Screening value (ESL) is based on lung tumorigenicty data from five rat studies, from which OEHHA derived a cancer unit risk factor (URF) range of 1×10^{-5} to 3×10^{-4} $(\mu g/m3)^{-1}$ and a geometric mean of 6×10^{-5} $(\mu g/m3)^{-1}$ for diesel exhaust/DPM (Cal OEHHA 1998). The California Air Resources Board listed DPM as a toxic air contaminant, with a cancer URF of 3×10^{-4} $(\mu g/m3)^{-1}$. Based on the URF ranges of 1×10^{-5} to 3×10^{-4} $(\mu g/m3)^{-1}$ and a cancer risk level of 1 in 100,000 (i.e., 10^{-5}), the chronic ESL for carcinogenic effects ranges from 0.03 to 1 $\mu g/m^3$. The chronic ESL, if based on the geometric mean of 6×10^{-5} $(\mu g/m3)^{-1}$, would be 0.17 $\mu g/m^3$. The previous interim long-term ESL of 0.15 $\mu g/m^3$ is within the estimated ESLs (0.03 to 1 $\mu g/m^3$) and thus, was kept and not changed by the TCEQ (TCEQ, 2015).	
Metals											
Aluminum	7429-90-5	-	-	-	**5.2**	-	-	-	1.5	US EPA: Screening value based on a provisional reference concentration (RfC) of 0.005 mg/m3 for neurotoxic effects (psychomotor and cognitive impairment) in occupationally exposed workers (Hosovski et al. 1990; as cited in US EPA 2006). Workers were exposed to a time-weighted average concentration of 4.6 to 11.5 mg/m3 for an average of 12 years. The LOAEL of 4.6 mg/m3 based on an 8 hour exposure was adjusted for continuous exposure and corrected for a human equivalent concentration (HEC). The LOAELHEC is 1.64 mg/m3. An uncertainty factor of 300 (10 for intrahuman variability, 10 for using a LOAEL and 3 for database limitations) was applied. A residential scenario exposure factor was applied to the RfC to derive the screening level, which is considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime.	**US EPA-** The US EPA RSL selected as it is the only secondary criteria available.
										TCEQ: Screening value (ESL/AMCV) based on a health endpoint (interim, supporting documentation not available).	
Antimony	7440-36-0	-	-	-	**0.31**	-	0.3	-	0.5	US EPA: The non-carcinogenic RSL is based on the chronic ATSDR minimal risk level of 0.0003 mg/m^3 (0.3 $\mu g/m^3$), see below (ATSDR 2019). The US EPA applies a residential scenario exposure factor to derive the screening level, which is considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime.	**US EPA RSL** selected as it was the only criteria available from secondary sources.
										ATSDR: Screening value based on lung inflammation in Fischer rats exposed to 0, 0.06, 0.51 or 4.5 mg/m^3 antimony trioxide dust for 6 hours/day, 5 days/week for 12 months followed by a 12-month observation period (Newton et al. 1994; as cited in ATSDR 2019). The minimum risk level was derived from a BMCL10 of 0.10 mg/m^3 (human equivalent BMCL of 0.008 mg Sb/m^3). The BMCL10 was adjusted for intermittent exposure (PODADJ) followed by an adjustment to a human-equivalent concentration by multiplying the PODADJ by a regional deposited dose ratio. A total uncertainty factor of 30 was then applied (3 for intraspecies variability and 10 for human variability) to calculate the minimum risk level of 0.0003 mg/m^3 (0.3 $\mu g/m^3$).	
										TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and ACGIH. The selected OEL of 0.5 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	
Arsenic	7440-38-2	-	-	0.0066	**0.0065 (0.00065)**	0.015	-	-	0.067	WHO: Screening level based on an estimated incremental lifetime cancer risk of 1 in 100,000 and an inhalation unit risk (IUR) of 0.0015 per $\mu g/m^3$, derived from lung cancer incidences in exposed workers at metal smelters (WHO, 2000).	
										US EPA (RSL): Screening level based on an inhalation unit risk (IUR) of 0.00429 per µg/m3 based on lung cancer in occupationally-exposed male workers (Brown and Chu 1983a, b; as cited in US EPA 1988). The risk-based concentration for a cancer risk of 1 in 100,000 is 0.002 µg/m3. A residential scenario exposure factor was applied to the risk-based concentration to derive the screening level of 0.0065 for a risk level of 1 in 100,000 and 0.00065 for a cancer risk of 1 in 1,000,000. The RSL is considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime.	**US EPA RSL** selected as it is the lowest criteria available from a secondary source
										Cal OEHHA: Screening value based on decrease in intellectual function and adverse effects on neurobehavioural development in humans (Wasserman et al. 2004; as cited in Cal OEHHA 2014). An inhalation dose was estimated from an oral dose (drinking water) to give a value of 0.46 µg/m3. An uncertainty factor of 30 (3 for estimating a LOAEL based on quantitative dose-response analysis and 10 for inter-individual variation) was used.	
										TCEQ: Screening level based on respiratory and lung cancer in occupational workers. The screening value is based on an inhalation unit risk (IUR) of 0.00015 per $\mu g/m^3$ and an incremental lifetime cancer risk of 1 in 100,000 (Enterline et al., 1987, Lubin et al., 2000, Jarup et al., 1988, Viren and Silvers 1994; as cited in TCEQ 2012).	

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[a][b]	CalOEHHA (2023) REL [c]	ATSDR (2024) MRL	MECP (2020) AAQC [d]	TCEQ (2024) ESL/AMCV [e]		
Barium	7440-39-3	-	-	-	**0.52**	-	-	-	0.5	US EPA (RSL): Screening level based a reference concentration (RfC) of 0.5 µg/m^3 based on a reproductive study in rats exposed for four months via inhalation (Tarasenko et al. 1977, as cited in US EPA 2000). The NOAEL was 0.8 mg/m^3, adjusted for continuous exposure, and an uncertainty factor of 1000 was applied (to derive an RfC of 0.5 µg/m^3). A residential scenario exposure factor was applied to the RfC to derive the screening level.	**US EPA RSL** selected as it is the only criteria available from a secondary source
										TCEQ: Screening value based on Occupational Exposure Limits (OEL) from ASTDR, FRG-MAK, NIOSH, OSHA, ACGIH. The selected OEL of 0.5 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	
Beryllium		-	-	-	0.012 (0.0012)	**0.007**	0.001	-	0.002	US EPA (RSL): Screening level based on an inhalation unit risk (IUR) of 0.0024 per µg/m3 related to an increased incidence of lung cancer in workers (Wagoner et al. 1980; as cited in US EPA 1998). The risk-based concentration for a cancer risk of 1 in 100,000 is 0.0042 µg/m3. A residential scenario exposure factor was applied to the risk-based concentration to derive the screening level.	
										CalOEHHA: Screening value is an RfC based on a study that investigated the prevalence of beryllium sensitization in relation to work process and beryllium exposure measurements in a beryllia ceramics plant that had operated since 1980. Of 136 employees samples, 8 employees were beryllium-sensitized (5.9%); 6 of the 8 had granulomatous disease based on transbronchial lung biopsy. The LOAEL from this study was 0.55 µg/m3, the median exposure of the sensitized workers (Kreiss et al. 1996; as cited in CalOEHHA 2001). An adjustment for continuous exposure was performed to determine a $LOAEL_{ADJ}$ of 0.2 µg/m3. An uncertainty factor of 30 (3 to account for the sensitive nature of the subclinical endpoint (beryllium sensitization), 3 for database uncertainty, and 3 for intraspecies uncertainty) was applied.	**CalEPA REL** selected as it is the lowest criteria available from a secondary source
										ATSDR: The screening level is an MRL based on an occupational exposure study. The study observed exposure-response relationships for beryllium sensitization and CBD in workers with ≤6 years of beryllium exposure. The study authors reported no cases of beryllium sensitization among workers with average respirable concentrations of <0.04 µg/m3 and observed cases of chronic beryllium disease among workers with respirable cumulative concentrations of <0.33 µg/m3-year (Schuler et al. 2012; as cited in ATSDR 2023). The study identfied a LOAEL of 0.04 µg/m^3 which was set as the POD. An uncertainty factor of 30 (10 for the use of a LOAEL, 3 for intraspecies variation) was applied.	
										TCEQ ESL: Screening value based on Occupational Exposure Limits (OEL) from OSHA. The selected OEL of 2 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	
Bismuth	7440-69-9	-	-	-	-	-	-	-	**5**	TCEQ: Interim effects screening level (ESL). Screening value based on bismuth telluride as a surrogate. The selected OEL of 5000 ug/m3 was modified by an uncertainty factor of 1000x (interim, adopted from NIOSH; OSHA, supporting documentation not available).	**TCEQ ESL** selected as it is the only available criteria
Cadmium	7440-43-9	-	-	**0.005**	0.01	0.02	0.01	0.005	0.011	WHO: Screening value based on data collected in industrial workers with lung cancer and renal effects. Cadmium exposure may result in various renal alterations, whether it is absorbed via inhalation or contaminated food. WHO (Thun et al. 1991, Kjellstrom 1986; as cited in 2000) indicated that the lowest estimate of the cumulative exposure to airborne cadmium in industrial workers leading to an increased risk of renal dysfunction (low-molecular-weight proteinuria) or lung cancer was 100 µg/m3-year for an 8 hour exposure, and this was extrapolated to a continuous lifetime exposure estimate of 0.3 µg/m3. WHO (2000) indicated that existing levels of cadmium in the air of most urban or industrial areas are around one-fiftieth of this value. The screening value was derived to prevent a further increase of cadmium in agricultural soils, which is likely to increase exposure to future generations through dietary intake.	**WHO guideline s**elected as it is the most conservative criteria from a secondary source
										US EPA (RSL): Screening level derived from a Cal OEHHA REL. The US EPA applies a residential scenario exposure factor to derive the screening level.	
										ATSDR: Screening value based on a urinary cadmium level associated with 10% extra risk of low molecular weight proteinuria (Chen et al. 2006, Järup and Elinder 1994; Roels et al., 1993; as cited in ATSDR 2012). A urinary cadmium dose corresponding to a 10% excess risk of low molecular proteinuria of 0.5 µg/m^3 creatinine was calculated from three occupational exposure studies and used as the point of departure (POD). It was estimated that an exposure of 0.1 µg/m^3 in air and 0.3 µg/kg/day in diet would result in urinary cadmium level of 0.5 µg/m^3 creatinine. The inhalation concentration was divided by an uncertainty factor of 9 (3 for human variability and 3 as a modifying factor to address the lack of human data to assess the relative sensitivities of the lungs and the kidneys).	
										Cal OEHHA: Screening value based on kidney and respiratory system effects in an occupational study (Lauwerys et al., 1974; as cited in Cal OEHHA 2008b). A LOAEL of 21 µg/m3 and a NOAEL of 1.4 µg/m3 were identified. Cal OEHHA derived an average occupational exposure concentration of 0.5 µg/m3 and assumed exposure occurred 5 days per week, 8 hours per day with an average exposure duration of 4.1 years. The NOAEL was converted to an average occupational exposure of 0.5 µg/m3 and an uncertainty factor of 30 (3 for use of a subchronic study and 10 for intraspecies uncertainty) was applied.	
										MECP: Screening value based on kidney effects in humans associated with exposure to cadmium compounds (Friberg et al., 1974, Kjellstrom et al., 1978; as cited in MECP 2006). A LOAEL OF 100 µg/m3-years was identified from the study. A continuous lifetime exposure of 270 ng/m3 for the general population was derived from the cumulative occupational exposure of 100 µg/m3-years. The occupational exposure level was converted into an equivalent continuous lifetime exposure by extrapolating the occupational LOAEL from 8 hours to 24-hours, from 225 working days to 365 days and distributed over an average human lifetime of 75 years (100 µg/m3-years x 8/24-hours x 225/365 days x 1/75 years = 270 ng/m3), resulting in an adjusted LOAEL of 0.27 µg/m3. An uncertainty factor of 10 for intraspecies variability and an uncertainty factor of 5 for use of a LOAEL were applied.	
										TCEQ: Screening value based on kidney effects in humans (TCEQ 2016). A meta-analysis of multiple studies in humans identified beta2-microglobulin proteinuria as a critical effect. A human equivalent concentration point of departure (PODHEC) for urine of 0.5 µg cadmium/g creatinine based upon a 10% increase in the critical effect was adjusted to a PODHEC for air of 0.1 µg cadmium/m^3 using a pharmacokinetic model (ATSDR 2012; as cited in TCEQ 2016) . A total uncertainty factor of 9 was used which was comprised of 3 for interspecies sensitivity (i.e., protection of diabetics) and 3 for database uncertainty to derive an AMCV value of 0.011 µg/m^3 based on HQ=1. The TCEQ value would be identical to the ATSDR (2012) chronic inhalation MRL if rounded to one significant figure.	

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[a][b]	CalOEHHA (2023) REL [c]	ATSDR (2024) MRL	MECP (2020) AAQC [d]	TCEQ (2024) ESL/AMCV [e]		
Cesium	7440-46-2	-	-	-	**-**	-	-	-	-	No annual screening value is available.	Particulate matter applied as a surrogate
Chromium (total or trivalent)	7440-47-3	-	-	-	-	-	-	-	**0.14**	TCEQ: Screening value (ReV) based on a study where rats were exposed to 0, 17, 54, or 168 mg/m3 chromic sulphate particulate for 6 hours/day, 5 days/week for 13 weeks (Derelanko et al. 1999; as cited in TCEQ 2009). The critical effects were increased total lung and trachea weight relative to body weight in male and female rats. The benchmark concentration lower confidence limit corresponding to a 10% increase in effect (BMCL10) was 3.45 mg/m3. The BMCL10 was adjusted for continuous exposure (6 hours/24-hours and 5 days/7 days) and a regional deposition dose ratio (of 1.31, resulting in a point of departure [human equivalent concentration]) (PODHEC) of 0.81 mg/m3. An uncertainty factor of 1000 for interspecies variability (3), intraspecies variability (10), subchronic duration (10), and database limitations (3) was applied. The value was adjusted for the proportion of trivalent chromium in chromium sulphate (0.171) to derive a chronic ReV value of 0.14 µg/m3 based on HQ=1.	
Cobalt	7440-48-4	-	-	-	**0.0031 (0.00031)**	-	0.1	-	0.0017	ATSDR: Screening value based on a decrease in pulmonary function in occupationally-exposed workers (Nemery et al., 1992; as cited in ATSDR 2024). The same key study was used in US EPA 2008. The NOAEL was 5.3 µg/m^3 and adjusted for continuous exposure (1.3 µg/m^3) and an uncertainty factor of 10 (for human variability) was applied.	
										US EPA: Screening level based on a 2 year rat study where adenoma and carcinoma of the lung was observed. Benchmark dose modelliing was used to derive and an inhalation unit risk (IUR) of 9 per mg/m^3. The IUR was then used to derive a risk-based concentration of 0.0011 µg/m^3, based on an incremental lifetime cancer risk of 1 in 100,000 (NTP 1998, Bucher et al. 1999 as cited in US EPA 2008). The US EPA applies a residential scenario exposure factor to derive the screening level.	**US EPA RSL** selected as it is the only criteria available from a secondary source
										TCEQ: Screening level based on two key studies by the National Toxicology Program (NTP 1998; as cited in TCEQ 2017). The key studies identified inhalation unit risks (IURs) of 0.0091 per µg cobalt/m^3 and 0.003 per µg cobalt/m^3 and were associated with an increased incidence of lung adenomas and carcinomas in female rats. The mid-point of the two IURs (i.e., 0.006 per µg cobalt/m^3) was selected as the final IUR, and was adjusted to the AMCV using an incremental lifetime cancer risk level of 1 in 100,000.	
Copper	7440-50-8	-	-	-	-	-	-	-	**1**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from OSHA. The selected OEL of 1 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Germanium	7440-56-4	-	-	-	-	-	-	-	**-**	No screening value available.	Particulate matter applied as a surrogate
Hafnium	7440-58-6	-	-	-	-	-	-	-	**0.5**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH and OSHA. The selected OEL of 500 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria
Indium	7440-74-6	-	-	-	-	-	-	-	-	No screening value available.	Particulate matter applied as a surrogate
Iron	7439-89-6	-	-	-	-	-	-	-	"Must Meet NAAQS"	TCEQ: No value specific to iron. "Must Meet NAAQS" indicates that, for species of limited concern, the determination of the individual species impacts are not requried if a National Ambient Air Quality Standards (NAAQS) analysis is completed for particulate matter of 2.5 and 10 microns or less (PM2.5 and PM10)	Particulate matter of 2.5 and 10 microns or less (PM2.5 and PM10) will be used as a surrogate for assessment of iron for the chronic exposure period.
Lanthanum	7439-91-0	-	-	-	-	-	-	-	-	No screening value available.	Particulate matter applied as a surrogate
Lead	7439-92-1	-	-	0.5	**0.15**	-	-	-	"Must Meet NAAQS"	WHO: Screening value based on preventing blood lead levels exceeding 100 µg/L in order to protect 98% of the population including children (WHO 2000). Various international expert groups have determined that the earliest signs of adverse effects of lead in young children begin at 100 to 150 µg/L in blood. It also appears that 1 µg/m^3 of lead in air directly contributes approximately 19 µg/L of lead in blood in children and 16 µg/L in adults.	
										US NAAQS: Screening value is a rolling 3-month average based on neurological effects (decrease of less than 2 IQ points) in children, and the potential for cardiovascular and renal effects in adults (US EPA 2016). An air concentration of less than 0.15 µg/m^3 of lead would correspond to a blood lead concentration of approximately 1 µg/dL which leads to less than a 2 IQ point decrease in American children based on an air-to-blood ratio of 1:7.	**US EPA NAAQS** selected as it is the most conservative criteria from a secondary source
										TCEQ: No value specific to lead. "Must Meet NAAQS" indicates that, for species of limited concern, the determination of the individual species impacts are not requried if a National Ambient Air Quality Standards (NAAQS) analysis is completed for particulate matter of 2.5 and 10 microns or less (PM2.5 and PM10).	
Lithium	7439-93-2								**0.2**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from FRG-MAK. The selected OEL of 200 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[a][b]	CalOEHHA (2023) REL [c]	ATSDR (2024) MRL	MECP (2020) AAQC [d]	TCEQ (2024) ESL/AMCV [e]		
Manganese	7439-96-5	-	-	0.15	0.05	**0.09**	0.3	-	0.84	WHO: Screening value based on neurotoxic effects observed in occupationally-exposed workers and the benchmark concentration lower confidence limit corresponding to a 5% incidence of effect ($BMCL_5$) of 30 µg/m^3 was selected as the NOAEL (Roels et al. 1992;as cited in WHO 2000). The screening value was derived using a benchmark approach and by dividing by the NOAEL a factor of 4.2 for continuous exposure and an uncertainty factor of 50 (10 for interindividual variation and 5 for developmental effects in younger children).	
										US EPA: Screening value based on a reference concentration (RfC) of 0.05 µg/m^3 for impairment of neurobehavioural function in occupationally-exposed workers (Roels et al. 1987; as cited in US EPA 1988). A NOAEL was not available because a single geometric mean exposure concentration was calculated for this cross-sectional study and effects were observed in workers who had been exposed. The LOAEL was 150 µg/m^3 and the LOAEL adjusted for a human equivalent concentration ($LOAEL_{HEC}$) was 50 µg/m^3. An uncertainty factor of 1,000 (10 to protect sensitive individuals, 10 for using a LOAEL and 10 for database limitations) was applied. The US EPA applies a residential scenario exposure factor to derive the screening level.	
										ATSDR: Screening value for respirable manganese based on abnormal performances in eye-hand coordination in an occupational study (Roels et al. 1992; as cited in ATSDR 2012). The exposure was determined for each employee based on their jobs and the length of time they had worked at the factory. On average, workers were exposed for an average of 5.3 years to an average concentration of respirable manganese of 0.25 mg/m^3. The benchmark concentration lower confidence limit corresponding to a 10% incidence of effect ($BMCL_{10}$) of 142 µg/m^3 derived from a logistic model was adjusted for continuous exposure and then an uncertainty factor of 100 was applied (10 for human variability and 10 for database limitations).	
										Cal OEHHA: Screening value based on impairment of neurobehavioral function in humans (occupational study) for manganese and compounds. A benchmark concentration lower confidence limit corresponding to a 5% response (BMCL05) of 72 µg/m^3 was obtained and adjusted for continuous exposure, resulting in a value of 26 µg/m^3 (Roels et al. 1992; as cited in Cal OEHHA 2014). An uncertainty factor of 300 (3 for extrapolation from subchronic to chronic exposure duration, 100 for intraspecies differences [10 for adults to children and 10 for the more sensitive developing brains of newborns and infant children]) was used to derive the REL.	**CalOEHHA-** The REL was selected over WHO and US EPA as it is based a more recent evaluation and a more robust toxicological derivation (i.e., benchmark approach).
										TCEQ: Screening value based on the same key study as ATSDR, using the same point of departure of 142 µg/m^3 (see details from ATSDR above), an uncertainty factor of 60 was applied (10 for intrahuman variability and 6 for database uncertainties) to derive the AMCV, based on an HQ=1.	
Mercury	7439-97-6	-	-	1	0.31	**0.03**	0.3	-	0.025	WHO: Screening value based on the LOAELs for mercury vapour (15 to 30 µg/m^3, tremors, renal tubular effects, and changes in plasma enzymes) (WHO 1991; Cárdenas et al. 1993; as cited in WHO 2000) and applying an uncertainty factor of 20 (10 for uncertainty in variable sensitivities in higher risk populations and 2 for extrapolating from LOAEL to NOAEL).	
										US EPA: Screening value based on a reference concentration (RfC) of 0.0003 mg/m3 for hand tremors, increases in memory disturbance and central nervous system effects in occupational workers (Fawer et al. 1983; as cited in US EPA 1995). A NOAEL was not observed in this study as a single mean concentration was calculated from personal air monitors of workers and effects were identified in workers. A LOAEL of 0.025 mg/m3 was calculated as a time weighted average and adjusted using occupational ventilation rates and workweek hours to a LOAEL of 0.009 mg/m3. An uncertainty factor of 30 (10 to protect sensitive individuals and 3 for a lack of a database) was used. The US EPA applies a residential scenario exposure factor to derive the screening level.	
										ATSDR: A screening value of 0.3 µg Hg/m3 was derived for elemental mercury based on tremors reported in several occupational exposure studies. The MRL is based on 2.84 µg Hg/m3, which is the 95% lower confidence limit of the weighted median of 4.92 µg Hg/m3 calculated using estimated air concentrations from seven studies, reported in eight publications (Bast-Pettersen et al. 2005; Boogaard et al. 1996; Chapman et al. 1990; Ellingsen et al. 2001; Fawer et al. 1983; Langworth et al. 1992a; Wastensson et al. 2006, 2008; as cited in ATSDR 2024) and a total uncertainty factor of 10 for human variability	
										Cal OEHHA: Screening value based on neurotoxicity as measured by tremor, memory and sleep disturbances, decreased performance on neurobehavioural tests and decreased electroencephalography activity in occupational studies (Piikivi and Hanninen 1989; as cited in Cal OEHHA 2014). Humans were exposed to mercury for 8 hours/day, 5 days/week for 13.7 to 15.6 years. A NOAEL was not observed as only a single exposure concentration was assessed and effects were seen at this level. A LOAEL of 0.025 mg/m^3 was adjusted for continuous exposure (0.009 mg/m^3) and an uncertainty factor of 300 (10 for neurotoxicity being a moderate to severe effect, 3 to reflect interindividual variability and 10 for the higher susceptibility of the developing nervous system) was applied to derive the screening value.	**CalOEHHA REL s**elected as it is the most conservative criteria from secondary sources
										TCEQ: Screening value based on Occupational Exposure Limits (OEL) from OSHA. The selected OEL of 0.025 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[a][b]	CalOEHHA (2023) REL [c]	ATSDR (2024) MRL	MECP (2020) AAQC [d]	TCEQ (2024) ESL/AMCV [e]		
Molybdenum	7439-98-7	-	-	-	**2.1**	-	2	-	4.5	US EPA: Screening value based on the chronic RfC of 0.002 mg/m^3 based on respiratory effects, and squamous metaplasia of epiglottis in female rates (NTP 1997; as cited in ATSDR 2020). The US EPA applies a residential scenario exposure factor to derive the screening level.	**US EPA RSL** selected as it is the only criteria available from secondary sources.
										ATSDR: Screening value based on increased incidence of squamous metaplasia of the epiglottis in female rats exposed to 6.7 mg molybdenum/m^3 as molybdenum trioxide for 6 hours/day, 5 days/week for 2 years (NTP 1997; as cited in ATSDR 2020). The BMCL10 of 1.60 mg molybdenum/m^3 was selected as the point of departure (POD). The POD was adjusted for exposure duration (6/24-hours, 5/7 days) and a human equivalent concentration (HEC) of 0.248, resulting in a PODHEC of 0.071 mg molybdenum/m^3. An uncertainty factor of 30 was applied (3 for extrapolation from animals to humans with dosimetric adjustments and 10 for human variability).	
										TCEQ: Screening value based on an inhalation study where rats were exposed to molybdenum trioxide (MoO3) for 6 hours per day, 5 days per week for 2 weeks (National Toxicological Program 1997, as cited in TCEQ 2021). The critical effect was decreased body weight with a point of departure NOAEL of 30 mg MoO3/m3. The LOAEL was adjusted to a 1-hour exposure duration and a human equivalent concentration (HEC) for a point of departure (POD) of 41.8 mg MoO3/m3. Uncertainty factors for intrahuman variability (10), 3 to account for potential toxicodynamic differences between rats and humans and 6 for a limited database were applied to derive a final acute reference value of 230 µg MoO3/m3 or 150 µg Mo/m3 . The long-term ESL was calculated from this acute reference value by applying an uncertainty factor of 10 to account for long-term exposures and an HQ of 0.3.	
Nickel	7440-02-0	-	-	0.025	0.015, 0.094, 0.021	**0.014**	-	0.02 (PM10) 0.04 (Total Suspended Particulate)	0.059	WHO: Screening level based on an inhalation unit risk (IUR) of 0.00038 µg/m3 for 1 µg/m3 of nickel in the air, based on lung cancer incidences in exposed human workers. The concentration corresponding to an incremental lifetime risk of 1 in 100,000 is 0.025 µg/m^3 (Andersen 1992, Andersen et al. 1996; as cited in WHO 2000).	
										US EPA: For nickel refinery dust and nickel subsulphide (regional screening level [RSL] of 0.015 µg/m3), the screening value is based on a Cal OEHHA REL of 0.014 µg/m3 (see below). A residential scenario exposure factor was applied by US EPA to derive a screening level. For nickel soluble salts (RSL of 0.094 µg/m3), the screening value is based on a chronic ATSDR minimal risk level of 0.09 µg/m3 (see below). US EPA applied a residential scenario exposure factor to the ATSDR minimal risk level to derive a screening level. For nickel oxide (RSL of 0.021 µg/m3), the screening value is based on a Cal OEHHA REL derivation for nickel oxide. Health effects (active pulmonary inflammation and alveolar proteinosis) were observed in mice following exposure to nickel oxide for 6 hours/day, 5 days/week for 104 weeks. A benchmark concentration lower confidence limit corresponding to a 5% response (BMCL05) of 117 µg/m3 was obtained and adjusted for continuous exposure, resulting in a value of 20.9 µg/m3. This value was then adjusted to a human equivalent concentration (HEC) of 2.0 µg/m3. An uncertainty factor of 100 (3 for interspecies variability and 30 for intraspecies variability) was applied to derive an inhalation REL of 0.02 µg/m3. A residential scenario exposure factor was applied by US EPA to derive a screening level, which is considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime.	
										Cal OEHHA: Screening value based on pathological changes in lung, lymph nodes and nasal epithelium in rats exposed to nickel and nickel compounds (except nickel oxide) for 6 hours/day, 5 days/week for 104 weeks (Benson et al. 1987; as cited in Cal OEHHA 2012). The benchmark dose level corresponding to a 5% response level (BMDL05) was 30.5 µg/m3 and the human equivalent concentration (BMDLHEC05) was 1.4 µg/m3. An uncertainty factor of 100 (3 for interspecies differences and 30 for intraspecies differences) was applied.	**CalOEHHA REL s**elected as it is the most conservative criteria from secondary sources
										MECP: Screening values are based on health effects and were calculated using an annual averaging period. The screening value of 0.04 µg/m^3 is based on nickel in TSP assuming that approximately 50% of ambient TSP is made up of PM10 and is considered protective of both carcinogenic and non-carcinogenic effects of nickel and nickel compounds (MECP 2011a). The screening value of 0.02 µg/m3 is based on nickel in the PM10 size fraction and is considered protective of both carcinogenic and non-carcinogenic effects of nickel and nickel compounds (MECP 2011a). The MECP considers that the carcinogenic effects are of a greater potency than non-carcinogenic effects. Although the non-carcinogenic critical effects of the various nickel compounds were reviewed by the MECP, their potencies were not discussed in detail.	
										TCEQ: Screening level based on lung cancer in workers exposed to various forms of nickel in air (Grimsrud et al. 2003; and Enterline and Marsh 1983; as cited in TCEQ 2017). An inhalation unit risk (IUR) of 0.00017 per µg/m3 was used to derive the AMCV, based on an incremental lifetime risk of 1 in 100,000. This value was adopted as the chronic ESL.	
Selenium	7782-49-2	-	-	-	21	**20**	-	-	0.2	US EPA: Screening value based on the REL from Cal OEHHA (see below). The US EPA applies a residential scenario exposure factor to derive the screening level, which is considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime.	
										Cal OEHHA: Screening value based on environmental exposure of selenium (in soil and food supplies) to people in China over a lifetime in their diets (as selenium subsulphide) (Kuper et al. 1988; as cited in Cal OEHHA 2008c). Health effects were clinical selenosis (liver, blood, skin and central nervous system). The LOAEL was 0.023 mg/kg/day and the NOAEL was 0.015 mg/kg/day. The inhalation chronic REL is based on the oral chronic REL and an inhalation extrapolation factor of 3,500 µg/m^3 per mg/kg/day. An uncertainty factor of 3 to account for intraspecies differences was applied. One of the assumptions of route-to-route extrapolation assumes that a chemical is equally absorbed by both oral and inhalation routes; Cal OEHHA indicated that the available data are not adequate to depart from the default assumption of equal absorption across the lungs and gastrointestinal tract.	**CalOEHHA REL** selected as it is the lowest criteria available from secondary sources.
										TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and ACGIH. The selected OEL of 0.2 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[a][b]	CalOEHHA (2023) REL [c]	ATSDR (2024) MRL	MECP (2020) AAQC [d]	TCEQ (2024) ESL/AMCV [e]		
Silica, crystalline (respirable)	-	-	-	-	**3.1**	**3.1**	-	-	0.27	US EPA RSL/Cal OEHHA REL: US EPA adopted the CalOEHHA (2008) REL as a resident screening level. Cal OEHHA REL is based on a study that followed 2235 gold miners in South Africa. Chronic silicosis was observed in 313 (14%) of individuals. A NOAEL of 600 µg/m3-years was determined (assuming 30% of dust is silica). A BMCL01 of 636 µg/m3-years was determined and set as the POD. An adjustment for continuous exposure was performed to determine a POD_{HEC} of 9.8 µg/m3. An uncertainty factor of 3 for intraspecies uncertainty was applied to determine the REL. Based on respirable fraction as defined by the occupational hygiene methods described by ACGIH (≤ 4 µm).	**US EPA RSL/CalOEHH REL** selected as it is the only secondary criterion available.
										TCEQ: Derived based on lung cancer mortality in silica-exposed workers based on excess mortality of 1 in 100,000. apply to respirable crystalline silica ≤ 4 µm in diameter.	
Silver	7440-22-4	-	-	-	-	-	-	-	**0.01**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, and OSHA. The selected OEL of 0.01 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ AMCV** selected as it is the only criterion available.
Strontium	7440-24-6	-	-	-	-	-	-	-	2	TCEQ: Screening value based on a health endpoint (interim value, supporting documentation not available), as particulate matter. TCEQ value was not selected because supporting documentation on the derivation of the 1-hour threshold is not available. Strontium is assessed indirectly using particulate matter as a surrogate.	Criteria has no supporting documnetation. This constituent will be evaluated through particulate matteras a surrogate.
Tantalum	7440-25-7	-	-	-	-	-	-	-	**5**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH and OSHA. The selected OEL of 5000 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria
Tellurium	13494-80-9	-	-	-	-	-	-	-	**0.1**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and TLV. The selected OEL of 100 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria
Thallium	7440-28-0	-	-	-	-	-	-	-	**0.1**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, and OSHA. The selected OEL of 0.1 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Tin	7440-31-5	-	-	-	-	-	-	-	**2**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, and OSHA. The selected OEL of 2 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Titanium	7440-32-6	-	-	-	-	-	-	-	**5**	TCEQ ESL: Screening value based on Occupational Exposure Limits (OEL) from OSHA. The selected OEL of 5000 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ). Screening value based on titanium (IV) dioxide as a surrogate.	**TCEQ ESL** selected as it is the only available criteria
Tungsten	7440-33-7	-	-	-	-	-	-	-	**1**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and TLV. The selected OEL of 1000 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ).	**TCEQ ESL** selected as it is the only available criteria
Uranium	7440-61-1	-	-	-	**0.042**	-	0.04; 0.8	0.03 (PM10) 0 06 (Total Suspended Particulate)	0.2	US EPA: Screening value based on ATSDR minimal risk level (see above). The US EPA applies a residential scenario exposure factor to derive the screening level, which is considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime.	**US EPA** RSL selected as it is the only criteria available from secondary sources.
										ATSDR: Screening value for soluble forms of uranium (0.04 µg/m3) is based on renal tubular atrophy in dogs exposed to uranium tetrachloride for 33 hours/week for 1 year (Stokinger et al., 1953; as cited in ATSDR 2013). The benchmark concentration lower confidence limit corresponding to the lower 10% incidence of effect (BMCL10) was 0.019 mg/m3 and adjusted for continuous exposure (multiplied by 33/168 hours = 0.0037 mg/m3) and an uncertainty factor of 100 (10 for extrapolating from animals to humans and 10 for human variability) was applied to give 0.04 µg/m3 as the screening value for soluble uranium. Screening value for insoluble uranium (0.8 µg/m3) based on fibrosis in the lungs and tracheobronchial lymph nodes in monkeys exposed to insoluble forms of uranium for 5.4 hours/day, 5 days/week for 5 years (ATSDR 2013). The LOAEL (5.1 mg/m3) was adjusted for intermittent exposure (5.1 mg/m3 x 5.4 hours/24-hour x 5 days/7 days) and an uncertainty factor of 1,000 (10 for using a LOAEL, 10 for extrapolating from animals to humans and 10 for human variability) was applied to give 0.8 µg/m3 as the screening value for insoluble uranium.	
										MECP: Screening value based on kidney effects in an epidemiological study of uranium exposure in drinking water. The MECP selected the kidney uranium reference concentration 0.1 µg U/g kidney, which was derived using a biokinetic model (United Kingdom's Royal Society 2001a; Zamora et al. 1988; as cited in MECP 2011). The MECP allocated 10% of the kidney reference concentration to inhalation exposure for a typical Ontario resident and accounted for the solubility and absorption rates of three major classes of uranium compounds (slow, medium, and fast-absorbing uranium forms). The MECP calculated the daily inhalation intake of uranium that would remain below 10% of the kidney reference concentration, and then converted the daily inhalation intake to an air concentration assuming that an adult inhales approximately 20 m3 of air per day. The MECP set the annual criteria based on a 50:50 ratio of Type-F (fast-absorbing uranium) and Type M (medium-absorbing uranium) compounds in ambient air. The MECP annual-averaging value is also based on the PM10 fraction, which is conservative because particle sizes greater than 10 µm are not readily inhaled (MECP 2011).	
										TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, and ACGIH. The selected OEL of 0.2 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[a][b]	CalOEHHA (2023) REL [c]	ATSDR (2024) MRL	MECP (2020) AAQC [d]	TCEQ (2024) ESL/AMCV [e]		
Vanadium	7440-62-2	-	-	-	**0.1**	-	0.1	-	0.022	ATSDR: Screening value based on degeneration of respiratory epithelium of the epiglottis in mice exposed to vanadium pentoxide for 6 hours/day, 5 days/week for 104 weeks (NTP 2002; as cited in ATSDR 2012). The human equivalent benchmark concentration lower confidence limit corresponding to the lower 10% incidence of effect (BMCL10[HEC]) of 0.003 mg/m3 was used and an uncertainty factor of 30 (3 for extrapolating from animals to humans and 10 for human variability) was applied to calculate 0.1 µg/m3 as the screening value for vanadium pentoxide.	
										US EPA: Screening value based on ATSDR (see above).	**US EPA RSL** selected as it is the only criteria available from a secondary source
										TCEQ: Interim screening value based on an inhalation study where human subjects (n=9) were exposed to vanadium pentoxide (V2O5) dust for 8 hours (Zenz & Berg 1967, as cited in TCEQ 2021). A NOAEL of 0.1 mg V2O5 /m3 for respiratory irritation was observed, which was adjusted to a 1-hour exposure duration by TCEQ to derive a PODADJ of 0.2 mg V2O5/m3. Uncertainty factors for intrahuman variability (10) and database uncertainty (6) were then applied to derive a final acute reference value (i.e., AMCV) of 3.3 µg V2O5/m3 or 2.2 µg V/m3. The acute AMCV was converted to a long-term ESL by applying an uncertainty factor of 10. Note that WSP removed the use of the TCEQ adjustment factor of 0.3 to account for a target HQ of 0.3.	
Yttrium	7440-65-5	-	-	-	-	-	-	-	**1**	TCEQ ESL: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and TLV. The selected OEL of 1000 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Zinc	7440-66-6	-	-	-	-	-	-	-	**2**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from FRG-MAK. The selected OEL of 2 mg/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Zirconium	7440-67-7	-	-	-	-	-	-	-	**5**	TCEQ: Screening value based on Occupational Exposure Limits (OEL) from NIOSH, OSHA, and TLV. The selected OEL of 5000 ug/m3 was modified by an uncertainty factor of 1000x. (interim, supporting documentation is not available, based on email communitcation with TCEQ)	**TCEQ ESL** selected as it is the only available criteria
Benzo(a)pyrene	50-32-8	-	-	**0.00012**	0.0021	-	-	0.0001 (0.00001)	0.017	WHO: Based on epidemiological data from studies on coke-oven workers exposed to a mixture of PAHs, an inhalation unit risk (IUR) for benzo(a)pyrene as an indicator in air constituent was determined to be 8.7×10^{-5} per ng/m^3. The corresponding concentrations of benzo(a)pyrene producing an incremental lifetime cancer risk of 1 in 100,000 is 0.12 ng/m^3 (WHO, 2000).	**WHO** selected as it is the lowest criteria available from a secondary source
										US EPA: Screening value was calculated from a reference concentration (RfC) of 0.000002 mg/m3 based on developmental toxicity in rats exposed to 25, 75 and 100 µg/m3 of benzo(a)pyrene for 4 hours daily for 10 days . A LOAEL of 25 µg/m3 for decreased embryo/fetal survival was selected as the POD and adjusted to account for discontinuous exposure (PODADJ) and then adjusted to human equivalent concentration (HEC) resulting in a PODHEC of 4.6 µg/m3. An uncertainty factor of 3000 (3 for extrapolating from animals to humans, 10 for interindividual variability, 10 for extrapolating from subchronic to chronic exposure, and 10 for database limitations) was applied (US EPA, 2017). The US EPA applies a residential scenario exposure factor to derive the screening level, which is considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime.	
										MECP: Annual AAQC based on carcinogenic potential endpoint from an evaluation of coke-oven worker epidemiological studies by the WHO which derived an inhalation unit risk (IUR) value of 8.7×10^{-5} per ng/m^3 for benzo(a)pyrene, equivalent to 0.1 ng/m^3 of benzo(a)pyrene at a risk level of 1 in 100,000. Screening value for benzo(a)pyrene as a surrogate for total PAHs (Mazumdar et al., 1975; as cited in MECP, 2011).	
										TCEQ: Screening value (ESL/AMCV) based on a health endpoint (interim), as PM. Derived from US EPA IRIS IUR of 6×10^{-4} per µg/m^3 and a 1 in 100,000 ILCR (TCEQ, 2017)	
Naphthalene	91-20-3	-	-	10	**3.1**	9	4 ug/m3 (0.0007 ppm)	-	50	WHO: Based on respiratory tract lesions, including tumours in the upper respiratory tract demonstrated in animal studies and haemolytic anaemia in humans. Associated with repeated inhalation exposure of 6 hours per day, 5 days a week for 104 weeks, resulting in severe effects in terms of inflammation in almost all rats exposed to the lowest (but still relatively high) naphthalene dose of 53 mg/m3 (National Toxicology Program 2000; as cited in WHO 2010). This LOAEL was adjusted for continous exposure and an uncertainty factor of 10 for using a LOAEL rather than a NOAEL.	
										US EPA: Based on the reference concentration (RfC) for 0.003 mg/m^3 of nasal effects (hyperplasia and metaplasia in respiratory and olfactory epithelium) in a chronic study in mice (NTP 1992; as cited in US EPA 1998). The resulting LOAEL adjusted for a human equivalent concentration was 9.3 mg/m^3. An uncertainty factor of 3000 was applied (10 for extrapolation to humans, 10 to protect sensitive humans, 10 to extrapolate from a LOAEL to a NOAEL, 3 for database defenciencies). The US EPA applies a residential scenario exposure factor to derive the screening level, which is considered by the US EPA to be protective of human exposure (including sensitive groups) over a lifetime.	**US EPA RSL** selected as it is the lowest criteria available from a secondary source
										ATSDR: Screening value based on induced nasal lesions in rats exposed to naphthalene, from two chronic inhalation toxicity and carcinogenicity studies with mice (NTP 1991; as cited in ATSDR 2005). The LOAEL identified was 10 ppm (52.4 mg/m3), adjusted for continuous exposure (multiplied by 6 hours/24-hours x 5 days/7 days = 1.8 ppm or 9.4 mg/m3) and converted to a human equivalent concentration (HEC) (0.2 ppm or 1.05 mg/m3). The HEC derived by using a regional gas dose ratio for a rat to human conversion by multiplying 1.8 ppm x 0.132 (0.2 ppm or 1.05 mg/m3). An uncertainty factor of 300 (10 for use of a LOAEL, 3 for extrapolating from animals to humans with dosimetric adjustment and 10 for human variability) was applied to derive the screening value. A molecular weight of 128.17 g/mol was used to convert from ppm to µg/m3 for this assessment.	
										Cal OEHHA: Based on respiratory effects (nasal inflammation, olfactory epithelial metaplasia, respiratory epithelial hyperplasia) in mice	
										TCEQ: Interim value based on NIOSH; OSHA; TLV occupational exposure limit. TCEQ applied a safety factor of 1000 to the 8 hour TWA of 50 000 ug/m3.	

Table 1-3: Annual (Chronic) Air Thresholds

Parameter	CAS	PRIMARY SOURCE		SECONDARY SOURCE			TERTIARY SOURCE			Toxicological Endpoints and Derivations	Rationale for Selected Threshold
		NL (2022) AAQS	CCME (2023) CAAQS/NAAQO	WHO (2000, 2010, 2021) AQG	US EPA (2023, 2024) RSL/NAAQS[(a)(b)]	CalOEHHA (2023) REL [(c)]	ATSDR (2024) MRL	MECP (2020) AAQC [(d)]	TCEQ (2024) ESL/AMCV [(e)]		
Notes: AAQC = Ambient Air Quality Criteria; AAQO = Ambient Air Quality Objective; AAQS= Ambient Air Quality Standards; ACB = air contaminant benchmark; AMCV = Air Monitoring Comparison Value; AQG = Air Quality Guideline; AQO = Air Quality Objective; ATSDR = Agency for Toxic Substances and Disease Registry; BMCL = benchmark concentration lower confidence limit; BMCL1 = benchmark concentration lower confidence limit corresponding to 1% effect; BMCLHEC = benchmark concentration lower confidence limit corresponding to 10% response and adjusted to human equivalent concentration; BMD= Benchmark Dose C = carcinogenic; CAAQS = Canadian Ambient Air Quality Standard; Cal OEHHA = California Office of Environmental Health Hazard Assessment; CAS = Chemical abstract service; CCME = Canadian Council of Ministers of the Environment; CO = Carbon monoxide; DPM = Diesel Particulate Matter; ESL = Effects screening level; FEV1 = forced expiratory volume in 1 second; g/mol = grams per mol; HEC = Human equivalent concentration; HQ = Hazard Quotient; hour = hour; ILCR = incremental lifetime cancer risk; IRIS = integrated risk information system; IUR = inhalation unit risk; LOAEL = Lowest observed adverse effect level; m3 = cubic meters; MECP = Ministry of the Environment, Conservation and Parks; milligrams per cubic meter; MRL = Minimum risk level; NAAQO= National Ambient Air Quality Objective; NAAQS = National Ambient Air Quality Standard; NC = non-carcinogenic; ng/m3 = nanograms per cubic meter; NH3 = Ammonia; NL= Newfoundland and Labrador; NO2 = Nitrogen dioxide; NOAEL = No observed adverse effect level; PM10 = particulate matter with nominal aerodynamic diameter of 10 microns or less (sometimes referred to as respirable particulate matter); PM2.5 = particulate matter with nominal aerodynamic diameter of 2.5 microns or less (sometimes referred to as fine particulate matter); OSHA= Occupational Safety and Health Administration; POD = Point of departure; PODADJ = Point of departure adjust to account for discontinuous exposure; PODHEC = Point of departure adjust to human equivalent concentration; ppb = parts per billion; ppm = parts per million; REL= Reference exposure level; ReV = Reference value; RfC = reference concentration; RSL = Regional screening level; SO2 = sulfur dioxide; TCEQ = Texas Commission on Environmental Quality; TEF= Toxic equivalency Factor; TEQ= Toxic Equivalent Quantity; TSP = Total suspended particulate; TWA= Time Weighted Average; ug/m3 = micrograms per meter cubed; um = micrometer; US EPA = United States Environmental Protection Agency; WHO = World Health Organization.										

Concentrations are in microgram per cubic metre (µg/m^3), unless otherwise noted.

Concentrations in parts per billion (ppb), provided in brackets, were converted to µg/m^3 by applying the formula: molecular weight (grams per mol) x ppb / 24.45. The conversion is based on the assumption of 25 °C and an atmospheric pressure of 1.

- = Guideline not available

(a) US EPA values recorded as ppm or ppb have been converted from µg/m^3 assuming 25 °C and an atmospheric pressure of 1.

(b) RSLs are based on a target HQ of 1 (non-carcinogenic values) and a carcinogenic risk of 10^{-6}, which are the values shown in brackets For the purpose of this assessment, non-carcinogenic RSLs were adjusted to target HQ of 0.2 while carcinogenic are adjusted to a target of 10^{-5}, which are the values which are not in brackets.

(c) Cal OEHHA IURs are based on a cancer risk level of 1 in 1,000,000 (10^{-6}); for this assessment carcinogenic REL were calculated for risk level of 1 in 100,000 by dividing 10^{-6} by the IUR then multiplying by a factor of 10 .

(d) MECP derived carcinogenic AAQC based on a target cancer risk of 10^{-6} (value in brackets). For the purpose of this assessment, carcinogenic AAQC were adjusted to a target cancer risk of 10^{-5} (value not in brackets).

(e) For parameters where a final ESL is available, the AMCV and ReV (derived based on a HQ of 1.0) was selected as the TCEQ air criteria because final ESLs were derived based on an HQ of 0.3. For parameters with interim values, ESL and AMCV are the same; an adjustment was not made as supporting documentation for these parameters are not available.

Bold and highlighted = Selected air screening criteria

ATTACHMENT B2

Screening Results of Project Concentrations at Receptor Locations

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
			Maximum	4100.5	3213.5
			Maximum Location	LU12	LU12
635960	5857471	Previous Receptors (Alderon 2012)	L1	2045.0	1782.9
641590	5856650	Previous Receptors (Alderon 2012)	L2	1744.2	1612.9
643605	5861877	Closest Residences	R1	1655.7	1586.9
639817	5866611	Closest Residences	R2	1663.5	1604.6
629503	5851281	Closest Residences	R3	1933.5	1799.0
643660	5863077	Schools	S1	1647.7	1586.4
640302	5867360	Schools	S2	1655.4	1599.5
628698	5851350	Schools	S3/H2	1896.5	1784.9
638645	5868619	Hospitals	H1	1643.1	1577.8
641084	5860083	Land User	LU1	1717.0	1628.3
640822	5853090	Land User	LU2	1758.5	1698.5
644385	5853041	Land User	LU3	1704.9	1598.4
634182	5862441	Land User	LU4	1897.5	1645.4
633008	5862216	Land User	LU5	1902.0	1656.4
638099	5858559	Land User	LU6	1935.6	1760.2
637075	5847770	Land User	LU7	1735.2	1598.6
640649	5848093	Land User	LU8	1692.7	1605.1
643498	5844896	Land User	LU9	1629.5	1576.3
642596	5841626	Land User	LU10	1600.8	1568.7
636075	5858014	Land User	LU11	1969.7	1764.4
631162	5855850	Land User	LU12	4100.5	3213.5
631662	5848350	Land User	LU13	1909.7	1740.3
632162	5845850	Land User	LU14	1686.8	1628.7
635730	5849661	Cabin	C1	1777.5	1617.0
636577	5858531	Cabin	C2	1948.8	1760.0
636140	5858010	Cabin	C3	1950.8	1755.2
636150	5857871	Cabin	C4	1953.9	1757.7
636111	5857723	Cabin	C5	1963.5	1761.2
636065	5857542	Cabin	C6	1996.0	1760.0
636018	5857320	Cabin	C7	2002.0	1740.5
636115	5857199	Cabin	C8	2019.8	1736.3
636071	5857083	Cabin	C9	2027.2	1730.6
636105	5856822	Cabin	C10	2013.1	1719.4
636098	5856774	Cabin	C11	2042.1	1738.2
636907	5856913	Cabin	C12 (MAX)	2069.8	1744.1
637468	5857501	Cabin	C13	2040.3	1760.6
637586	5857770	Cabin	C14	2016.7	1772.0
637560	5858030	Cabin	C15	1982.2	1774.4
637559	5858098	Cabin	C16	1979.8	1776.4
637382	5858387	Cabin	C17	1977.0	1777.8
636439	5858885	Cabin	C18	1903.1	1738.8
636532	5858958	Cabin	C19	1901.3	1738.9
636641	5859177	Cabin	C20	1887.7	1734.9
636587	5859379	Cabin	C21	1868.6	1726.7
636606	5859083	Cabin	C22	1894.0	1737.0
636333	5859399	Cabin	C23	1853.5	1718.3
636210	5859591	Cabin	C24	1828.7	1705.2
637527	5858534	Cabin	C25	1968.0	1775.1
638188	5859443	Cabin	C26	1886.5	1733.8
638031	5859903	Cabin	C27	1864.6	1719.2
638118	5860165	Cabin	C28	1844.5	1708.7
638095	5860245	Cabin	C29	1838.8	1706.3
635722	5860584	Cabin	C30	1871.0	1687.6
635612	5860422	Cabin	C31	1878.5	1689.9
635465	5860366	Cabin	C32	1890.4	1697.6
635190	5860556	Cabin	C33	1912.5	1711.5
635188	5860635	Cabin	C34	1911.4	1711.6
635168	5860785	Cabin	C35	1908.7	1711.3
635180	5860828	Cabin	C36	1906.1	1709.8
635148	5860858	Cabin	C37	1907.1	1710.9
640778	5857817	Cabin	C38	1742.1	1617.2
640792	5857910	Cabin	C39	1739.7	1617.6

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
641137	5857913	Cabin	C40	1726.9	1610.7
641364	5857725	Cabin	C41	1718.7	1602.7
641817	5857027	Cabin	C42	1735.7	1605.1
641845	5856814	Cabin	C43	1738.1	1607.3
641912	5857277	Cabin	C44	1726.7	1600.9
641840	5857280	Cabin	C45	1727.9	1601.5
641870	5857362	Cabin	C46	1724.0	1600.6
641637	5857345	Cabin	C47	1729.0	1602.8
641560	5857425	Cabin	C48	1726.2	1602.7
641454	5857455	Cabin	C49	1726.2	1603.4
641550	5857525	Cabin	C50	1720.3	1602.0
641466	5857605	Cabin	C51	1715.9	1602.1
643367	5857533	Cabin	C52	1690.2	1586.6
641285	5858131	Cabin	C53	1727.2	1606.8
641270	5858280	Cabin	C54	1729.6	1605.0
645508	5854970	Cabin	C55	1652.9	1569.3
645337	5854863	Cabin	C56	1651.2	1570.3
645280	5854855	Cabin	C57	1652.6	1570.5
644937	5855135	Cabin	C58	1664.6	1572.1
644879	5855382	Cabin	C59	1672.4	1571.8
644973	5855439	Cabin	C60	1671.8	1571.2
645128	5855811	Cabin	C61	1673.3	1569.4
645033	5855931	Cabin	C62	1677.4	1570.4
645036	5856103	Cabin	C63	1677.3	1571.4
645180	5855879	Cabin	C64	1672.6	1569.3
645330	5855813	Cabin	C65	1668.9	1568.8
645506	5855706	Cabin	C66	1664.9	1569.1
645632	5855645	Cabin	C67	1666.4	1569.9
645590	5855519	Cabin	C68	1663.4	1569.1
645598	5855459	Cabin	C69	1663.5	1569.7
645662	5855286	Cabin	C70	1660.1	1568.9
645835	5855153	Cabin	C71	1658.1	1567.9
645976	5855021	Cabin	C72	1656.9	1568.1
646064	5854763	Cabin	C73	1652.2	1567.8
645907	5854390	Cabin	C74	1654.6	1568.7
645885	5854242	Cabin	C75	1659.5	1569.2
645737	5853966	Cabin	C76	1667.0	1569.5
646109	5853232	Cabin	C77	1670.8	1572.6
646092	5852876	Cabin	C78	1674.2	1574.4
646044	5852660	Cabin	C79	1676.4	1578.6
646428	5852634	Cabin	C80	1668.3	1574.0
646459	5852650	Cabin	C81	1667.5	1573.3
647491	5856467	Cabin	C82	1652.0	1561.9
647943	5857121	Cabin	C83	1639.7	1560.2
650541	5853616	Cabin	C84	1620.1	1547.6
649585	5855076	Cabin	C85	1643.6	1549.6
649478	5856416	Cabin	C86	1641.0	1550.9
647046	5860524	Cabin	C87	1631.4	1557.5
649298	5858934	Cabin	C88	1613.2	1550.3
649221	5858590	Cabin	C89	1616.2	1551.5
655939	5864862	Cabin	C90	1549.7	1515.7
653216	5864965	Cabin	C91	1565.2	1523.1
650592	5866521	Cabin	C92	1576.0	1533.8
654383	5868124	Cabin	C93	1554.5	1517.7
652330	5866689	Cabin	C94	1564.8	1524.8
652553	5866833	Cabin	C95	1564.0	1523.9
651537	5866940	Cabin	C96	1570.0	1529.0
651680	5866973	Cabin	C97	1568.9	1528.3
652221	5867025	Cabin	C98	1564.6	1525.7
652077	5867051	Cabin	C99	1565.9	1526.4
651961	5867112	Cabin	C100	1567.1	1527.0
651905	5867245	Cabin	C101	1568.0	1527.4
651748	5867033	Cabin	C102	1568.6	1528.0
651696	5867089	Cabin	C103	1569.2	1528.3

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
651770	5867105	Cabin	C104	1568.7	1527.9
651729	5867176	Cabin	C105	1569.3	1528.2
651644	5867146	Cabin	C106	1569.9	1528.6
651661	5867207	Cabin	C107	1569.9	1528.6
651724	5867266	Cabin	C108	1569.6	1528.3
651643	5867292	Cabin	C109	1570.4	1528.7
651530	5867285	Cabin	C110	1571.3	1529.3
651454	5867326	Cabin	C111	1572.0	1529.7
651429	5867373	Cabin	C112	1572.4	1529.8
651534	5867399	Cabin	C113	1571.6	1529.3
651493	5867516	Cabin	C114	1572.2	1529.5
651408	5867479	Cabin	C115	1572.8	1530.0
651364	5867523	Cabin	C116	1573.3	1530.2
651278	5867742	Cabin	C117	1574.5	1530.6
651350	5867873	Cabin	C118	1574.1	1530.3
644982	5868164	Cabin	C119	1608.2	1571.2
645736	5872547	Cabin	C120	1589.0	1554.3
647298	5871617	Cabin	C121	1581.7	1549.4
647380	5872093	Cabin	C122	1579.2	1547.7
647567	5872814	Cabin	C123	1574.8	1544.5
648994	5873411	Cabin	C124	1563.2	1535.9
648810	5872842	Cabin	C125	1566.5	1538.1
649250	5872924	Cabin	C126	1563.2	1535.8
649691	5872831	Cabin	C127	1561.0	1533.8
649454	5872485	Cabin	C128	1563.0	1535.6
648506	5871449	Cabin	C129	1572.4	1542.5
648477	5871383	Cabin	C130	1572.8	1542.7
648480	5871299	Cabin	C131	1573.6	1542.8
649256	5871272	Cabin	C132	1572.3	1538.2
649219	5871153	Cabin	C133	1573.5	1538.5
649040	5870831	Cabin	C134	1576.8	1539.8
648373	5871125	Cabin	C135	1575.5	1543.7
648315	5870872	Cabin	C136	1578.0	1544.4
647828	5870049	Cabin	C137	1586.1	1548.3
647878	5869444	Cabin	C138	1591.0	1547.9
648314	5870737	Cabin	C139	1579.3	1544.5
648272	5870692	Cabin	C140	1579.7	1544.8
648269	5870647	Cabin	C141	1580.2	1544.9
648258	5870593	Cabin	C142	1580.7	1545.0
648264	5870554	Cabin	C143	1581.0	1545.0
648270	5870506	Cabin	C144	1581.5	1545.0
648272	5870458	Cabin	C145	1581.9	1545.0
648265	5870409	Cabin	C146	1582.4	1545.1
648284	5870335	Cabin	C147	1583.0	1545.0
648252	5870309	Cabin	C148	1583.3	1545.2
649181	5870379	Cabin	C149	1580.0	1539.1
648970	5869837	Cabin	C150	1584.9	1540.4
648958	5869792	Cabin	C151	1585.2	1540.5
648936	5869728	Cabin	C152	1585.8	1540.6
648920	5869646	Cabin	C153	1586.4	1540.6
648852	5870349	Cabin	C154	1581.4	1541.2
648843	5870252	Cabin	C155	1582.2	1541.3
648898	5870384	Cabin	C156	1581.0	1540.9
648951	5870402	Cabin	C157	1580.7	1540.6
649025	5870559	Cabin	C158	1579.2	1540.1
648631	5869828	Cabin	C159	1586.2	1542.7
648642	5869878	Cabin	C160	1585.8	1542.6
648651	5869930	Cabin	C161	1585.4	1542.6
648642	5870001	Cabin	C162	1584.9	1542.6
648638	5870052	Cabin	C163	1584.5	1542.7
648632	5870102	Cabin	C164	1584.1	1542.7
648640	5870160	Cabin	C165	1583.6	1542.7
648630	5870277	Cabin	C166	1582.7	1542.7
648618	5870215	Cabin	C167	1583.2	1542.8

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
648594	5870174	Cabin	C168	1583.6	1543.0
648572	5870134	Cabin	C169	1584.0	1543.1
648562	5870092	Cabin	C170	1584.4	1543.2
648563	5870003	Cabin	C171	1585.1	1543.2
648562	5869933	Cabin	C172	1585.6	1543.2
648542	5869871	Cabin	C173	1586.2	1543.3
648509	5869939	Cabin	C174	1585.7	1543.5
648495	5869806	Cabin	C175	1586.8	1543.6
648497	5869710	Cabin	C176	1587.5	1543.6
648450	5869788	Cabin	C177	1587.1	1543.9
648394	5869829	Cabin	C178	1586.9	1544.3
648333	5869845	Cabin	C179	1587.0	1544.7
648183	5869654	Cabin	C180	1588.8	1545.8
648163	5869723	Cabin	C181	1588.3	1545.9
648128	5869768	Cabin	C182	1588.0	1546.2
648100	5869845	Cabin	C183	1587.5	1546.4
648110	5869905	Cabin	C184	1587.0	1546.3
648153	5869932	Cabin	C185	1586.7	1546.0
648059	5869943	Cabin	C186	1586.7	1546.7
648034	5869998	Cabin	C187	1586.3	1546.8
648094	5870000	Cabin	C188	1586.2	1546.4
648089	5870035	Cabin	C189	1585.9	1546.4
648087	5870095	Cabin	C190	1585.4	1546.4
648099	5870138	Cabin	C191	1585.0	1546.3
648165	5870013	Cabin	C192	1586.0	1545.9
648175	5870059	Cabin	C193	1585.6	1545.8
648198	5870103	Cabin	C194	1585.2	1545.7
648206	5870040	Cabin	C195	1585.7	1545.6
648201	5869958	Cabin	C196	1586.4	1545.7
648259	5870043	Cabin	C197	1585.5	1545.3
648249	5869959	Cabin	C198	1586.2	1545.3
648277	5869977	Cabin	C199	1586.0	1545.1
648280	5869924	Cabin	C200	1586.5	1545.1
651945	5870271	Cabin	C201	1564.8	1525.3
651677	5870154	Cabin	C202	1567.1	1526.4
651358	5870320	Cabin	C203	1568.4	1527.0
651367	5870393	Cabin	C204	1568.0	1526.9
651356	5870439	Cabin	C205	1567.8	1526.8
651157	5870971	Cabin	C206	1566.1	1527.8
651172	5870889	Cabin	C207	1566.5	1527.7
651287	5870887	Cabin	C208	1565.8	1527.1
651278	5870756	Cabin	C209	1566.6	1527.1
651334	5870667	Cabin	C210	1566.8	1526.8
651541	5870880	Cabin	C211	1564.4	1525.8
651555	5870971	Cabin	C212	1563.8	1525.8
651664	5872079	Cabin	C213	1561.3	1525.1
651168	5872216	Cabin	C214	1562.4	1527.4
651309	5872616	Cabin	C215	1560.8	1526.4
651406	5872687	Cabin	C216	1560.4	1525.9
651702	5872788	Cabin	C217	1559.3	1524.6
652123	5872653	Cabin	C218	1558.4	1522.9
652137	5872385	Cabin	C219	1559.0	1522.9
651902	5872256	Cabin	C220	1560.1	1524.0
652139	5871372	Cabin	C221	1560.0	1523.1
652202	5871434	Cabin	C222	1559.7	1522.8
652479	5871780	Cabin	C223	1558.4	1521.6
652688	5871967	Cabin	C224	1557.3	1520.8
653634	5871447	Cabin	C225	1552.4	1518.7
654237	5871709	Cabin	C226	1549.3	1516.9
654126	5871774	Cabin	C227	1550.0	1517.1
654058	5871822	Cabin	C228	1550.4	1517.2
653897	5872230	Cabin	C229	1551.2	1516.9
653958	5872375	Cabin	C230	1550.8	1516.5
653813	5872764	Cabin	C231	1551.1	1516.5

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
654316	5873211	Cabin	C232	1547.8	1514.8
654464	5873391	Cabin	C233	1546.7	1514.3
654568	5873147	Cabin	C234	1546.7	1514.1
654435	5873112	Cabin	C235	1547.4	1514.4
654502	5873072	Cabin	C236	1547.2	1514.4
654560	5873037	Cabin	C237	1546.9	1514.3
654417	5873018	Cabin	C238	1547.7	1514.6
654533	5872976	Cabin	C239	1547.2	1514.5
654475	5872843	Cabin	C240	1547.6	1514.8
654527	5872824	Cabin	C241	1547.4	1514.7
654585	5872884	Cabin	C242	1547.0	1514.5
654712	5872759	Cabin	C243	1546.5	1514.5
654603	5872652	Cabin	C244	1547.2	1514.8
654615	5872495	Cabin	C245	1547.2	1515.0
654701	5872347	Cabin	C246	1546.8	1515.0
654827	5872301	Cabin	C247	1546.2	1514.8
654883	5872208	Cabin	C248	1545.9	1514.8
654891	5872150	Cabin	C249	1545.8	1514.9
654759	5872177	Cabin	C250	1546.6	1515.1
654788	5872127	Cabin	C251	1546.4	1515.1
655144	5871118	Cabin	C252	1543.3	1515.3
648102	5875979	Cabin	C253	1554.9	1530.5
651945	5874721	Cabin	C254	1549.3	1521.3
652653	5874100	Cabin	C255	1551.3	1519.6
653035	5874384	Cabin	C256	1548.9	1518.1
653048	5874439	Cabin	C257	1548.6	1518.0
653058	5874488	Cabin	C258	1548.3	1517.9
653088	5874541	Cabin	C259	1548.0	1517.7
653119	5874586	Cabin	C260	1547.7	1517.6
653053	5874685	Cabin	C261	1547.3	1517.7
653419	5874771	Cabin	C262	1545.9	1516.5
653624	5874867	Cabin	C263	1544.8	1515.8
653740	5875312	Cabin	C264	1542.2	1515.0
653331	5875587	Cabin	C265	1541.7	1515.8
653431	5876074	Cabin	C266	1538.6	1514.8
652687	5876590	Cabin	C267	1536.3	1515.9
653006	5877664	Cabin	C268	1532.9	1513.2
652913	5878002	Cabin	C269	1531.7	1512.7
654087	5876771	Cabin	C270	1534.1	1512.3
654390	5876812	Cabin	C271	1533.5	1511.5
654516	5876861	Cabin	C272	1533.2	1511.2
654613	5877129	Cabin	C273	1532.6	1510.7
654712	5877345	Cabin	C274	1532.0	1510.2
655194	5877509	Cabin	C275	1530.8	1509.1
655948	5877716	Cabin	C276	1528.7	1508.0
655845	5877809	Cabin	C277	1528.8	1508.0
655662	5878268	Cabin	C278	1528.0	1507.4
655612	5878362	Cabin	C279	1527.8	1507.3
655714	5878551	Cabin	C280	1527.1	1506.9
655750	5879082	Cabin	C281	1525.3	1506.3
655705	5879176	Cabin	C282	1525.0	1506.2
655698	5879229	Cabin	C283	1524.9	1506.2
655692	5879276	Cabin	C284	1524.7	1506.1
655687	5879312	Cabin	C285	1524.6	1506.1
655663	5879335	Cabin	C286	1524.5	1506.1
655586	5879390	Cabin	C287	1524.4	1506.1
655568	5879451	Cabin	C288	1524.2	1506.1
655536	5879531	Cabin	C289	1524.0	1506.0
655510	5879565	Cabin	C290	1523.9	1506.0
655522	5879635	Cabin	C291	1523.6	1505.9
655470	5879667	Cabin	C292	1523.5	1505.9
655759	5879806	Cabin	C293	1522.6	1505.4
655849	5879887	Cabin	C294	1522.2	1505.2
655904	5879874	Cabin	C295	1522.2	1505.1

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
655920	5879833	Cabin	C296	1522.3	1505.1
655937	5879788	Cabin	C297	1522.5	1505.2
655959	5879743	Cabin	C298	1522.6	1505.2
655981	5879336	Cabin	C299	1524.0	1505.6
656134	5879093	Cabin	C300	1524.6	1505.7
656122	5879037	Cabin	C301	1524.8	1505.8
656200	5878850	Cabin	C302	1525.3	1506.0
656222	5878811	Cabin	C303	1525.3	1506.1
656264	5878773	Cabin	C304	1525.4	1506.1
656283	5878750	Cabin	C305	1525.4	1506.1
656569	5878718	Cabin	C306	1524.9	1505.9
656610	5878724	Cabin	C307	1524.8	1505.9
656672	5878658	Cabin	C308	1524.8	1505.9
656727	5878687	Cabin	C309	1524.6	1505.8
657116	5878638	Cabin	C310	1523.8	1505.6
657218	5878747	Cabin	C311	1523.3	1505.4
656827	5878816	Cabin	C312	1524.1	1505.5
656811	5878856	Cabin	C313	1524.0	1505.5
656761	5878872	Cabin	C314	1524.0	1505.5
656749	5878923	Cabin	C315	1523.9	1505.5
656727	5878962	Cabin	C316	1523.9	1505.4
656706	5879002	Cabin	C317	1523.8	1505.4
656675	5879036	Cabin	C318	1523.8	1505.4
656652	5879085	Cabin	C319	1523.6	1505.3
656636	5879131	Cabin	C320	1523.5	1505.2
656387	5879799	Cabin	C321	1521.8	1504.6
656370	5879851	Cabin	C322	1521.6	1504.6
656353	5879896	Cabin	C323	1521.5	1504.5
653229	5878711	Cabin	C324	1528.8	1510.8
659194	5877695	Cabin	C325	1519.6	1504.7
659742	5879642	Cabin	C326	1515.1	1502.1
659782	5879684	Cabin	C327	1515.0	1502.0
659872	5879695	Cabin	C328	1514.7	1501.9
660349	5879906	Cabin	C329	1513.2	1501.3
660518	5879947	Cabin	C330	1512.7	1501.1
661421	5879718	Cabin	C331	1511.0	1500.5
661493	5879729	Cabin	C332	1510.8	1500.4
646105	5852102	Cabin	C333	1675.7	1585.7
647139	5852170	Cabin	C334	1654.2	1572.0
643788	5855912	Cabin	C335	1715.0	1584.1
641867	5855100	Cabin	C336	1711.3	1609.5
642951	5852301	Cabin	C337	1717.8	1637.0
640185	5848135	Cabin	C338	1690.7	1616.0
643735	5844087	Cabin	C339	1624.0	1575.0
643567	5839358	Cabin	C340	1579.8	1554.4
634702	5859483	Cabin	C341	2100.4	1820.7
634666	5859995	Cabin	C342	2025.0	1782.4
634659	5860951	Cabin	C343	1943.3	1721.2
632662	5861641	Cabin	C344	1911.7	1686.6
632659	5861856	Cabin	C345	1897.4	1677.4
633647	5862664	Cabin	C346	1894.3	1632.4
634888	5860864	Cabin	C347	1932.2	1721.9
634890	5860888	Cabin	C348	1930.2	1720.8
635091	5860937	Cabin	C349	1906.3	1710.6
635065	5860944	Cabin	C350	1908.3	1711.6
635052	5860976	Cabin	C351	1908.4	1711.4
634970	5860936	Cabin	C352	1920.7	1717.2
635023	5861008	Cabin	C353	1910.3	1712.0
634957	5861081	Cabin	C354	1913.5	1712.3
634815	5861127	Cabin	C355	1921.8	1713.1
635036	5861316	Cabin	C356	1898.3	1705.5
635162	5861326	Cabin	C357	1890.0	1703.8
634845	5861354	Cabin	C358	1908.4	1705.9
634799	5861381	Cabin	C359	1909.2	1704.9

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
634807	5861446	Cabin	C360	1906.0	1703.2
634799	5861486	Cabin	C361	1904.6	1702.1
634775	5861537	Cabin	C362	1902.6	1700.0
634754	5861592	Cabin	C363	1900.5	1698.0
634742	5861622	Cabin	C364	1899.0	1696.7
634700	5861717	Cabin	C365	1894.3	1692.3
634648	5861759	Cabin	C366	1892.8	1689.5
634612	5861830	Cabin	C367	1888.6	1685.7
634602	5861867	Cabin	C368	1886.1	1683.8
634794	5861748	Cabin	C369	1889.9	1693.1
634894	5861777	Cabin	C370	1882.2	1692.2
634797	5861656	Cabin	C371	1895.5	1696.5
634842	5861619	Cabin	C372	1896.6	1698.7
634856	5861562	Cabin	C373	1899.1	1700.6
634874	5861521	Cabin	C374	1899.8	1701.7
634872	5861484	Cabin	C375	1901.9	1702.9
634889	5861408	Cabin	C376	1903.0	1704.1
634927	5861378	Cabin	C377	1902.5	1704.9
634931	5861326	Cabin	C378	1904.4	1706.2
635001	5861307	Cabin	C379	1900.9	1706.1
635178	5861389	Cabin	C380	1886.9	1702.5
635129	5861415	Cabin	C381	1888.5	1702.2
635078	5861447	Cabin	C382	1889.8	1701.7
635041	5861481	Cabin	C383	1890.1	1700.8
635007	5861513	Cabin	C384	1891.0	1700.5
634975	5861552	Cabin	C385	1890.4	1699.3
634966	5861604	Cabin	C386	1888.8	1698.2
634965	5861650	Cabin	C387	1886.2	1696.7
634933	5861729	Cabin	C388	1883.5	1694.1
634720	5861903	Cabin	C389	1880.1	1684.9
634674	5861939	Cabin	C390	1879.3	1682.7
634633	5861947	Cabin	C391	1881.2	1681.5
631918	5864061	Cabin	C392	1750.7	1617.7
631635	5864245	Cabin	C393	1740.2	1617.5
631596	5864310	Cabin	C394	1736.4	1617.0
631426	5864364	Cabin	C395	1738.1	1617.6
631376	5864401	Cabin	C396	1738.1	1617.3
631353	5864438	Cabin	C397	1737.6	1616.7
631356	5864521	Cabin	C398	1735.5	1614.4
631202	5864478	Cabin	C399	1738.2	1617.4
631123	5864530	Cabin	C400	1737.3	1616.2
631228	5864629	Cabin	C401	1734.4	1613.1
630947	5864638	Cabin	C402	1734.5	1614.8
630884	5864669	Cabin	C403	1733.2	1613.8
630852	5864739	Cabin	C404	1731.4	1612.4
630795	5864783	Cabin	C405	1729.8	1611.5
630714	5864851	Cabin	C406	1727.1	1609.7
630606	5864913	Cabin	C407	1723.6	1607.4
630537	5864985	Cabin	C408	1720.6	1605.9
630525	5865056	Cabin	C409	1719.0	1604.8
630640	5865177	Cabin	C410	1718.5	1602.2
630567	5865763	Cabin	C411	1702.7	1592.1
631282	5865426	Cabin	C412	1708.4	1593.0
632004	5865578	Cabin	C413	1686.2	1587.9
632080	5865528	Cabin	C414	1685.2	1589.4
632587	5865628	Cabin	C415	1690.0	1581.4
632732	5866318	Cabin	C416	1662.5	1560.3
632922	5866042	Cabin	C417	1680.2	1560.9
632958	5866077	Cabin	C418	1679.4	1559.0
633002	5866062	Cabin	C419	1681.1	1559.3
633121	5866206	Cabin	C420	1676.6	1557.8
633171	5866177	Cabin	C421	1678.8	1558.6
633224	5866191	Cabin	C422	1679.0	1558.9
633281	5866125	Cabin	C423	1683.0	1560.2

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
633337	5866101	Cabin	C424	1684.8	1560.9
633366	5866083	Cabin	C425	1686.0	1561.3
633424	5866069	Cabin	C426	1687.2	1561.8
633441	5866043	Cabin	C427	1688.5	1562.2
633416	5866144	Cabin	C428	1683.6	1560.7
633382	5866155	Cabin	C429	1682.7	1560.4
633337	5866176	Cabin	C430	1681.2	1559.8
633263	5866223	Cabin	C431	1678.1	1558.7
633042	5864004	Cabin	C432	1789.4	1607.6
635709	5867706	Cabin	C433	1656.2	1555.0
625388	5863092	Cabin	C434	1633.6	1562.9
625920	5861156	Cabin	C435	1667.9	1568.5
625442	5861111	Cabin	C436	1690.3	1571.5
625549	5860833	Cabin	C437	1705.8	1580.6
625534	5860895	Cabin	C438	1702.0	1578.3
625503	5860935	Cabin	C439	1700.4	1577.3
625491	5860984	Cabin	C440	1697.3	1575.5
625463	5861044	Cabin	C441	1694.2	1573.7
627494	5859339	Cabin	C442	1726.7	1618.9
627568	5859552	Cabin	C443	1739.1	1601.8
627722	5859592	Cabin	C444	1758.3	1624.4
627868	5860070	Cabin	C445	1774.8	1661.4
627927	5860110	Cabin	C446	1779.5	1669.3
627972	5860154	Cabin	C447	1784.5	1675.2
628037	5860189	Cabin	C448	1796.1	1683.1
624767	5861052	Cabin	C449	1713.2	1586.7
636109	5858269	Cabin	C450	1941.6	1749.8
636117	5858111	Cabin	C451	1947.5	1752.9
636305	5857911	Cabin	C452	1965.6	1766.0
623261	5854417	Cabin	C453	1663.6	1603.6
622652	5855438	Cabin	C454	1654.7	1595.9
622708	5855457	Cabin	C455	1656.5	1597.4
624826	5857667	Cabin	C456	1775.0	1676.0
634870	5861276	Cabin	C457	1910.4	1707.9
638207	5859662	Cabin	C458	1876.1	1725.9
640974	5858285	Cabin	C459	1738.7	1611.5
641865	5856903	Cabin	C460	1737.0	1606.8
635118	5851125	Cabin	C461	1917.6	1707.3
646196	5852986	Cabin	C462	1671.2	1572.0

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
625475	5857021	Cabin (Quebec)	C463	1885.5	1725.7
626098	5856799	Cabin (Quebec)	C464	2007.1	1779.2
627564	5858039	Cabin (Quebec)	C465	1955.1	1796.3
629357	5857727	Cabin (Quebec)	C466	2049.6	1900.7
630419	5858921	Cabin (Quebec)	C467	2302.4	2054.9
626642	5855576	Cabin (Quebec)	C468	2200.3	1903.1
630232	5858750	Cabin (Quebec)	C469	2298.2	2033.6
623764	5852692	Cabin (Quebec)	C470	1682.3	1610.6
623459	5850433	Cabin (Quebec)	C471	1672.5	1595.2
623460	5850000	Cabin (Quebec)	C472	1668.8	1591.2
624604	5850547	Cabin (Quebec)	C473	1728.1	1621.3
624617	5847632	Cabin (Quebec)	C474	1668.0	1620.5
624830	5847971	Cabin (Quebec)	C475	1672.5	1625.3
625323	5848229	Cabin (Quebec)	C476	1693.7	1638.2
625741	5848075	Cabin (Quebec)	C477	1714.6	1648.4
625759	5847941	Cabin (Quebec)	C478	1714.4	1648.0
625815	5847804	Cabin (Quebec)	C479	1715.7	1648.3
626223	5849126	Cabin (Quebec)	C480	1745.4	1668.2
625431	5849151	Cabin (Quebec)	C481	1701.6	1641.0
626474	5847197	Cabin (Quebec)	C482	1732.9	1651.6
626396	5845965	Cabin (Quebec)	C483	1701.9	1633.4
626683	5845314	Cabin (Quebec)	C484	1690.0	1625.3
626999	5845577	Cabin (Quebec)	C485	1695.8	1627.2
627003	5846179	Cabin (Quebec)	C486	1717.4	1635.8
626961	5846463	Cabin (Quebec)	C487	1726.0	1640.9
627273	5846354	Cabin (Quebec)	C488	1728.1	1637.3
627718	5845172	Cabin (Quebec)	C489	1687.7	1613.0
628038	5844373	Cabin (Quebec)	C490	1676.4	1596.2
628284	5848046	Cabin (Quebec)	C491	1795.9	1665.2
628253	5848298	Cabin (Quebec)	C492	1804.8	1673.4
628223	5848529	Cabin (Quebec)	C493	1812.8	1681.2
628578	5846400	Cabin (Quebec)	C494	1732.5	1618.1
629041	5844898	Cabin (Quebec)	C495	1673.2	1593.7
629002	5847706	Cabin (Quebec)	C496	1774.6	1638.0
628885	5847934	Cabin (Quebec)	C497	1785.5	1647.8
629224	5848000	Cabin (Quebec)	C498	1780.2	1645.1
629015	5847203	Cabin (Quebec)	C499	1755.6	1629.1
629458	5847746	Cabin (Quebec)	C500	1763.9	1635.5
629868	5847537	Cabin (Quebec)	C501	1742.2	1627.2
629643	5846372	Cabin (Quebec)	C502	1709.9	1605.5
631620	5848435	Cabin (Quebec)	C503	1918.4	1742.1
631326	5847777	Cabin (Quebec)	C504	1862.1	1708.2
631880	5848045	Cabin (Quebec)	C505	1867.5	1731.1
631823	5847529	Cabin (Quebec)	C506	1821.1	1709.5
631882	5847345	Cabin (Quebec)	C507	1798.4	1700.7
632025	5846766	Cabin (Quebec)	C508	1732.4	1669.6
630856	5847060	Cabin (Quebec)	C509	1791.5	1662.6
630937	5846640	Cabin (Quebec)	C510	1762.3	1657.9
631031	5846241	Cabin (Quebec)	C511	1726.1	1649.5
631246	5846057	Cabin (Quebec)	C512	1708.3	1648.1
631149	5846104	Cabin (Quebec)	C513	1713.7	1648.0
630186	5845857	Cabin (Quebec)	C514	1686.3	1598.9
630521	5844827	Cabin (Quebec)	C515	1652.9	1599.0
630500	5845041	Cabin (Quebec)	C516	1658.8	1601.6
631014	5845317	Cabin (Quebec)	C517	1671.0	1619.6
631354	5845361	Cabin (Quebec)	C518	1674.2	1622.3
632084	5844943	Cabin (Quebec)	C519	1664.1	1614.3
632227	5845440	Cabin (Quebec)	C520	1675.7	1622.2
631938	5845809	Cabin (Quebec)	C521	1685.9	1628.5
631611	5845632	Cabin (Quebec)	C522	1682.7	1629.7
631655	5845664	Cabin (Quebec)	C523	1683.3	1630.2
628692	5842475	Cabin (Quebec)	C524	1655.4	1572.9
628547	5842771	Cabin (Quebec)	C525	1658.4	1575.8
628397	5843141	Cabin (Quebec)	C526	1662.5	1579.6

Table 2-1: Air Quality Screening for Carbon Monoxide (CO)

Easting	Northing	Receptor Type	HHRA ID	1 hr CO (ug/m^3) Maximum (Project + Base Case)	8 hr CO (ug/m^3) Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	35000	15000
627634	5843239	Cabin (Quebec)	C527	1661.5	1590.6
628194	5841854	Cabin (Quebec)	C528	1648.8	1570.7

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
			Maximum	53.9	7.1	327.3	33.8
			Maximum Location	LU12	LU12	LU12	LU12
635960	5857471	Previous Receptors (Alderon 2012)	L1	13.8	4.5	**83.0**	**17.6**
641590	5856650	Previous Receptors (Alderon 2012)	L2	22.2	4.6	**128.6**	**17.9**
643605	5861877	Closest Residences	R1	6.4	3.8	22.8	12.6
639817	5866611	Closest Residences	R2	5.9	3.8	20.8	12.3
629503	5851281	Closest Residences	R3	11.9	4.1	**64.8**	14.7
643660	5863077	Schools	S1	6.3	3.8	22.5	12.5
640302	5867360	Schools	S2	5.8	3.8	20.4	12.3
628698	5851350	Schools	S3/H2	10.5	4.1	**56.2**	14.1
638645	5868619	Hospitals	H1	5.4	3.7	19.2	12.0
641084	5860083	Land User	LU1	12.0	4.2	**67.7**	**15.7**
640822	5853090	Land User	LU2	13.1	4.4	**70.9**	**16.8**
644385	5853041	Land User	LU3	9.4	4.0	47.2	13.8
634182	5862441	Land User	LU4	7.2	3.9	34.3	13.0
633008	5862216	Land User	LU5	7.6	4.0	38.7	13.5
638099	5858559	Land User	LU6	12.1	4.4	**61.3**	**16.5**
637075	5847770	Land User	LU7	8.2	4.0	38.9	13.5
640649	5848093	Land User	LU8	8.6	4.0	45.4	13.8
643498	5844896	Land User	LU9	6.4	3.8	26.3	12.5
642596	5841626	Land User	LU10	5.9	3.7	23.3	12.1
636075	5858014	Land User	LU11	13.1	4.4	**75.3**	**16.4**
631162	5855850	Land User	LU12	**53.9**	7.1	**327.3**	**33.8**
631662	5848350	Land User	LU13	9.5	4.0	**54.3**	13.8
632162	5845850	Land User	LU14	7.1	3.8	36.1	12.8
635730	5849661	Cabin	C1	10.9	4.2	**60.4**	**15.2**
636577	5858531	Cabin	C2	12.6	4.3	**68.8**	**16.1**
636140	5858010	Cabin	C3	12.8	4.4	**73.7**	**16.3**
636150	5857871	Cabin	C4	13.1	4.4	**76.4**	**16.6**
636111	5857723	Cabin	C5	13.2	4.4	**78.3**	**16.9**
636065	5857542	Cabin	C6	13.1	4.5	**77.7**	**17.2**
636018	5857320	Cabin	C7	12.8	4.5	**82.5**	**17.5**
636115	5857199	Cabin	C8	14.0	4.5	**92.4**	**17.7**
636071	5857083	Cabin	C9	14.8	4.6	**99.4**	**17.9**
636105	5856822	Cabin	C10	15.3	4.6	**103.0**	**18.2**
636098	5856774	Cabin	C11	16.0	4.7	**107.8**	**18.5**
636907	5856913	Cabin	C12 (MAX)	15.7	4.9	**104.0**	**19.9**
637468	5857501	Cabin	C13	13.7	4.6	**88.2**	**18.1**
637586	5857770	Cabin	C14	12.4	4.5	**78.2**	**17.6**
637560	5858030	Cabin	C15	12.2	4.5	**65.0**	**17.0**
637559	5858098	Cabin	C16	12.3	4.4	**65.8**	**16.9**
637382	5858387	Cabin	C17	12.8	4.4	**68.5**	**16.6**
636439	5858885	Cabin	C18	11.4	4.2	**57.9**	**15.4**
636532	5858958	Cabin	C19	11.4	4.2	**57.7**	**15.5**
636641	5859177	Cabin	C20	11.1	4.2	**54.5**	**15.4**
636587	5859379	Cabin	C21	10.7	4.2	**50.7**	**15.1**
636606	5859083	Cabin	C22	11.3	4.2	**56.0**	**15.5**
636333	5859399	Cabin	C23	10.2	4.1	48.0	14.7
636210	5859591	Cabin	C24	9.8	4.1	45.0	14.5
637527	5858534	Cabin	C25	12.7	4.4	**66.4**	**16.3**
638188	5859443	Cabin	C26	11.8	4.2	**54.1**	**15.2**
638031	5859903	Cabin	C27	11.6	4.2	**51.6**	14.9
638118	5860165	Cabin	C28	11.2	4.1	48.9	14.6
638095	5860245	Cabin	C29	11.1	4.1	48.2	14.6
635722	5860584	Cabin	C30	8.6	4.0	38.8	13.8
635612	5860422	Cabin	C31	8.6	4.0	39.1	13.8
635465	5860366	Cabin	C32	8.5	4.0	40.3	13.7
635190	5860556	Cabin	C33	8.8	4.0	44.4	13.7
635188	5860635	Cabin	C34	8.8	4.0	44.4	13.6
635168	5860785	Cabin	C35	8.8	4.0	43.7	13.6
635180	5860828	Cabin	C36	8.8	4.0	43.1	13.6
635148	5860858	Cabin	C37	8.8	4.0	43.2	13.6

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
640778	5857817	Cabin	C38	14.2	4.4	**75.9**	**16.6**
640792	5857910	Cabin	C39	13.5	4.4	**71.6**	**16.4**
641137	5857913	Cabin	C40	14.5	4.3	**75.8**	**16.0**
641364	5857725	Cabin	C41	14.3	4.4	**75.0**	**16.1**
641817	5857027	Cabin	C42	16.7	4.4	**87.6**	**16.5**
641845	5856814	Cabin	C43	16.6	4.5	**92.7**	**16.8**
641912	5857277	Cabin	C44	16.0	4.3	**82.3**	**16.0**
641840	5857280	Cabin	C45	16.5	4.4	**85.2**	**16.1**
641870	5857362	Cabin	C46	16.0	4.3	**81.8**	**16.0**
641637	5857345	Cabin	C47	16.9	4.4	**87.1**	**16.4**
641560	5857425	Cabin	C48	15.8	4.4	**80.4**	**16.4**
641454	5857455	Cabin	C49	14.9	4.4	**75.0**	**16.4**
641550	5857525	Cabin	C50	14.6	4.4	**72.5**	**16.2**
641466	5857605	Cabin	C51	13.2	4.4	**68.8**	**16.2**
643367	5857533	Cabin	C52	10.1	4.1	**51.3**	14.3
641285	5858131	Cabin	C53	13.5	4.3	**69.0**	**15.6**
641270	5858280	Cabin	C54	12.4	4.2	**62.2**	**15.5**
645508	5854970	Cabin	C55	6.8	3.9	30.2	13.2
645337	5854863	Cabin	C56	6.6	3.9	29.5	13.2
645280	5854855	Cabin	C57	6.6	3.9	29.5	13.2
644937	5855135	Cabin	C58	7.0	3.9	31.9	13.3
644879	5855382	Cabin	C59	7.3	3.9	33.9	13.3
644973	5855439	Cabin	C60	7.4	3.9	34.4	13.2
645128	5855811	Cabin	C61	8.0	3.9	37.6	13.2
645033	5855931	Cabin	C62	8.4	3.9	40.6	13.2
645036	5856103	Cabin	C63	8.8	3.9	42.8	13.2
645180	5855879	Cabin	C64	8.1	3.9	38.5	13.2
645330	5855813	Cabin	C65	8.0	3.9	38.1	13.2
645506	5855706	Cabin	C66	8.1	3.9	38.3	13.2
645632	5855645	Cabin	C67	8.4	3.9	39.9	13.3
645590	5855519	Cabin	C68	7.8	3.9	36.2	13.2
645598	5855459	Cabin	C69	7.8	3.9	36.4	13.2
645662	5855286	Cabin	C70	7.3	3.9	33.6	13.2
645835	5855153	Cabin	C71	7.1	3.9	32.0	13.1
645976	5855021	Cabin	C72	7.0	3.9	31.7	13.2
646064	5854763	Cabin	C73	6.7	3.9	30.2	13.2
645907	5854390	Cabin	C74	6.3	3.9	29.3	13.2
645885	5854242	Cabin	C75	6.4	3.9	29.7	13.2
645737	5853966	Cabin	C76	6.3	3.9	28.3	13.2
646109	5853232	Cabin	C77	6.9	3.9	31.6	13.2
646092	5852876	Cabin	C78	7.1	3.9	32.9	13.2
646044	5852660	Cabin	C79	7.3	3.9	34.1	13.2
646428	5852634	Cabin	C80	7.0	3.9	32.4	13.1
646459	5852650	Cabin	C81	7.0	3.9	32.2	13.1
647491	5856467	Cabin	C82	7.8	3.8	36.2	12.7
647943	5857121	Cabin	C83	7.6	3.8	35.0	12.6
650541	5853616	Cabin	C84	5.4	3.8	22.7	12.4
649585	5855076	Cabin	C85	6.3	3.8	26.7	12.4
649478	5856416	Cabin	C86	6.9	3.8	30.3	12.4
647046	5860524	Cabin	C87	6.0	3.8	26.8	12.4
649298	5858934	Cabin	C88	6.3	3.8	28.7	12.3
649221	5858590	Cabin	C89	6.6	3.8	29.7	12.3
655939	5864862	Cabin	C90	4.4	3.7	16.2	11.6
653216	5864965	Cabin	C91	4.7	3.7	18.4	11.7
650592	5866521	Cabin	C92	4.7	3.7	17.7	11.8
654383	5868124	Cabin	C93	4.5	3.7	16.6	11.6
652330	5866689	Cabin	C94	4.6	3.7	17.7	11.7
652553	5866833	Cabin	C95	4.6	3.7	17.6	11.7
651537	5866940	Cabin	C96	4.6	3.7	17.4	11.7
651680	5866973	Cabin	C97	4.5	3.7	17.3	11.7
652221	5867025	Cabin	C98	4.5	3.7	17.4	11.7
652077	5867051	Cabin	C99	4.5	3.7	17.3	11.7
651961	5867112	Cabin	C100	4.5	3.7	17.2	11.7

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
651905	5867245	Cabin	C101	4.5	3.7	17.1	11.7
651748	5867033	Cabin	C102	4.5	3.7	17.3	11.7
651696	5867089	Cabin	C103	4.5	3.7	17.2	11.7
651770	5867105	Cabin	C104	4.5	3.7	17.2	11.7
651729	5867176	Cabin	C105	4.5	3.7	17.1	11.7
651644	5867146	Cabin	C106	4.5	3.7	17.1	11.7
651661	5867207	Cabin	C107	4.5	3.7	17.1	11.7
651724	5867266	Cabin	C108	4.5	3.7	17.0	11.7
651643	5867292	Cabin	C109	4.5	3.7	17.0	11.7
651530	5867285	Cabin	C110	4.5	3.7	16.9	11.7
651454	5867326	Cabin	C111	4.6	3.7	16.9	11.7
651429	5867373	Cabin	C112	4.6	3.7	16.8	11.7
651534	5867399	Cabin	C113	4.5	3.7	16.8	11.7
651493	5867516	Cabin	C114	4.5	3.7	16.7	11.7
651408	5867479	Cabin	C115	4.6	3.7	16.7	11.7
651364	5867523	Cabin	C116	4.6	3.7	16.6	11.7
651278	5867742	Cabin	C117	4.6	3.7	16.3	11.7
651350	5867873	Cabin	C118	4.5	3.7	16.2	11.7
644982	5868164	Cabin	C119	5.3	3.7	19.0	11.9
645736	5872547	Cabin	C120	4.8	3.7	17.4	11.7
647298	5871617	Cabin	C121	4.7	3.7	17.3	11.7
647380	5872093	Cabin	C122	4.7	3.7	17.1	11.7
647567	5872814	Cabin	C123	4.6	3.7	16.8	11.6
648994	5873411	Cabin	C124	4.4	3.7	16.4	11.6
648810	5872842	Cabin	C125	4.5	3.7	16.5	11.6
649250	5872924	Cabin	C126	4.4	3.7	16.4	11.6
649691	5872831	Cabin	C127	4.4	3.7	16.2	11.6
649454	5872485	Cabin	C128	4.4	3.7	16.3	11.6
648506	5871449	Cabin	C129	4.6	3.7	16.7	11.7
648477	5871383	Cabin	C130	4.6	3.7	16.7	11.7
648480	5871299	Cabin	C131	4.6	3.7	16.7	11.7
649256	5871272	Cabin	C132	4.5	3.7	16.3	11.7
649219	5871153	Cabin	C133	4.5	3.7	16.3	11.7
649040	5870831	Cabin	C134	4.6	3.7	16.3	11.7
648373	5871125	Cabin	C135	4.6	3.7	16.7	11.7
648315	5870872	Cabin	C136	4.6	3.7	16.7	11.7
647828	5870049	Cabin	C137	4.7	3.7	16.9	11.7
647878	5869444	Cabin	C138	4.8	3.7	16.7	11.7
648314	5870737	Cabin	C139	4.6	3.7	16.7	11.7
648272	5870692	Cabin	C140	4.6	3.7	16.7	11.7
648269	5870647	Cabin	C141	4.7	3.7	16.7	11.7
648258	5870593	Cabin	C142	4.7	3.7	16.7	11.7
648264	5870554	Cabin	C143	4.7	3.7	16.7	11.7
648270	5870506	Cabin	C144	4.7	3.7	16.7	11.7
648272	5870458	Cabin	C145	4.7	3.7	16.7	11.7
648265	5870409	Cabin	C146	4.7	3.7	16.7	11.7
648284	5870335	Cabin	C147	4.7	3.7	16.7	11.7
648252	5870309	Cabin	C148	4.7	3.7	16.7	11.7
649181	5870379	Cabin	C149	4.6	3.7	16.1	11.7
648970	5869837	Cabin	C150	4.6	3.7	16.2	11.7
648958	5869792	Cabin	C151	4.6	3.7	16.2	11.7
648936	5869728	Cabin	C152	4.7	3.7	16.3	11.7
648920	5869646	Cabin	C153	4.7	3.7	16.3	11.7
648852	5870349	Cabin	C154	4.6	3.7	16.3	11.7
648843	5870252	Cabin	C155	4.6	3.7	16.3	11.7
648898	5870384	Cabin	C156	4.6	3.7	16.3	11.7
648951	5870402	Cabin	C157	4.6	3.7	16.3	11.7
649025	5870559	Cabin	C158	4.6	3.7	16.3	11.7
648631	5869828	Cabin	C159	4.7	3.7	16.3	11.7
648642	5869878	Cabin	C160	4.7	3.7	16.3	11.7
648651	5869930	Cabin	C161	4.7	3.7	16.4	11.7
648642	5870001	Cabin	C162	4.7	3.7	16.4	11.7
648638	5870052	Cabin	C163	4.7	3.7	16.4	11.7

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
648632	5870102	Cabin	C164	4.7	3.7	16.4	11.7
648640	5870160	Cabin	C165	4.6	3.7	16.4	11.7
648630	5870277	Cabin	C166	4.6	3.7	16.5	11.7
648618	5870215	Cabin	C167	4.6	3.7	16.5	11.7
648594	5870174	Cabin	C168	4.7	3.7	16.5	11.7
648572	5870134	Cabin	C169	4.7	3.7	16.5	11.7
648562	5870092	Cabin	C170	4.7	3.7	16.5	11.7
648563	5870003	Cabin	C171	4.7	3.7	16.4	11.7
648562	5869933	Cabin	C172	4.7	3.7	16.4	11.7
648542	5869871	Cabin	C173	4.7	3.7	16.4	11.7
648509	5869939	Cabin	C174	4.7	3.7	16.5	11.7
648495	5869806	Cabin	C175	4.7	3.7	16.4	11.7
648497	5869710	Cabin	C176	4.7	3.7	16.4	11.7
648450	5869788	Cabin	C177	4.7	3.7	16.5	11.7
648394	5869829	Cabin	C178	4.7	3.7	16.5	11.7
648333	5869845	Cabin	C179	4.7	3.7	16.5	11.7
648183	5869654	Cabin	C180	4.7	3.7	16.6	11.7
648163	5869723	Cabin	C181	4.7	3.7	16.6	11.7
648128	5869768	Cabin	C182	4.7	3.7	16.7	11.7
648100	5869845	Cabin	C183	4.7	3.7	16.7	11.7
648110	5869905	Cabin	C184	4.7	3.7	16.7	11.7
648153	5869932	Cabin	C185	4.7	3.7	16.7	11.7
648059	5869943	Cabin	C186	4.7	3.7	16.8	11.7
648034	5869998	Cabin	C187	4.7	3.7	16.8	11.7
648094	5870000	Cabin	C188	4.7	3.7	16.8	11.7
648089	5870035	Cabin	C189	4.7	3.7	16.8	11.7
648087	5870095	Cabin	C190	4.7	3.7	16.8	11.7
648099	5870138	Cabin	C191	4.7	3.7	16.8	11.7
648165	5870013	Cabin	C192	4.7	3.7	16.7	11.7
648175	5870059	Cabin	C193	4.7	3.7	16.7	11.7
648198	5870103	Cabin	C194	4.7	3.7	16.7	11.7
648206	5870040	Cabin	C195	4.7	3.7	16.7	11.7
648201	5869958	Cabin	C196	4.7	3.7	16.7	11.7
648259	5870043	Cabin	C197	4.7	3.7	16.6	11.7
648249	5869959	Cabin	C198	4.7	3.7	16.6	11.7
648277	5869977	Cabin	C199	4.7	3.7	16.6	11.7
648280	5869924	Cabin	C200	4.7	3.7	16.6	11.7
651945	5870271	Cabin	C201	4.3	3.7	15.3	11.6
651677	5870154	Cabin	C202	4.4	3.7	15.4	11.6
651358	5870320	Cabin	C203	4.4	3.7	15.4	11.6
651367	5870393	Cabin	C204	4.4	3.7	15.4	11.6
651356	5870439	Cabin	C205	4.4	3.7	15.4	11.6
651157	5870971	Cabin	C206	4.4	3.7	15.5	11.6
651172	5870889	Cabin	C207	4.4	3.7	15.5	11.6
651287	5870887	Cabin	C208	4.4	3.7	15.4	11.6
651278	5870756	Cabin	C209	4.4	3.7	15.5	11.6
651334	5870667	Cabin	C210	4.4	3.7	15.4	11.6
651541	5870880	Cabin	C211	4.4	3.7	15.3	11.6
651555	5870971	Cabin	C212	4.4	3.7	15.3	11.6
651664	5872079	Cabin	C213	4.3	3.7	15.2	11.6
651168	5872216	Cabin	C214	4.4	3.7	15.3	11.6
651309	5872616	Cabin	C215	4.3	3.7	15.3	11.6
651406	5872687	Cabin	C216	4.3	3.7	15.2	11.6
651702	5872788	Cabin	C217	4.3	3.7	15.1	11.6
652123	5872653	Cabin	C218	4.3	3.7	15.0	11.6
652137	5872385	Cabin	C219	4.3	3.7	15.0	11.6
651902	5872256	Cabin	C220	4.3	3.7	15.1	11.6
652139	5871372	Cabin	C221	4.3	3.7	15.1	11.6
652202	5871434	Cabin	C222	4.3	3.7	15.1	11.6
652479	5871780	Cabin	C223	4.3	3.7	15.0	11.6
652688	5871967	Cabin	C224	4.3	3.7	14.9	11.6
653634	5871447	Cabin	C225	4.2	3.7	14.7	11.6
654237	5871709	Cabin	C226	4.2	3.6	14.6	11.6

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
654126	5871774	Cabin	C227	4.2	3.6	14.6	11.6
654058	5871822	Cabin	C228	4.2	3.6	14.6	11.6
653897	5872230	Cabin	C229	4.2	3.6	14.6	11.6
653958	5872375	Cabin	C230	4.2	3.6	14.6	11.6
653813	5872764	Cabin	C231	4.2	3.6	14.6	11.6
654316	5873211	Cabin	C232	4.2	3.6	14.5	11.5
654464	5873391	Cabin	C233	4.2	3.6	14.4	11.5
654568	5873147	Cabin	C234	4.2	3.6	14.4	11.5
654435	5873112	Cabin	C235	4.2	3.6	14.4	11.5
654502	5873072	Cabin	C236	4.2	3.6	14.4	11.5
654560	5873037	Cabin	C237	4.2	3.6	14.4	11.5
654417	5873018	Cabin	C238	4.2	3.6	14.5	11.5
654533	5872976	Cabin	C239	4.2	3.6	14.4	11.5
654475	5872843	Cabin	C240	4.2	3.6	14.5	11.5
654527	5872824	Cabin	C241	4.2	3.6	14.5	11.5
654585	5872884	Cabin	C242	4.2	3.6	14.4	11.5
654712	5872759	Cabin	C243	4.2	3.6	14.4	11.5
654603	5872652	Cabin	C244	4.2	3.6	14.5	11.5
654615	5872495	Cabin	C245	4.2	3.6	14.5	11.5
654701	5872347	Cabin	C246	4.2	3.6	14.4	11.5
654827	5872301	Cabin	C247	4.2	3.6	14.4	11.5
654883	5872208	Cabin	C248	4.2	3.6	14.4	11.5
654891	5872150	Cabin	C249	4.2	3.6	14.4	11.5
654759	5872177	Cabin	C250	4.2	3.6	14.4	11.5
654788	5872127	Cabin	C251	4.2	3.6	14.4	11.5
655144	5871118	Cabin	C252	4.2	3.6	14.5	11.6
648102	5875979	Cabin	C253	4.3	3.6	15.1	11.5
651945	5874721	Cabin	C254	4.2	3.6	15.2	11.5
652653	5874100	Cabin	C255	4.2	3.6	14.8	11.5
653035	5874384	Cabin	C256	4.2	3.6	14.7	11.5
653048	5874439	Cabin	C257	4.2	3.6	14.7	11.5
653058	5874488	Cabin	C258	4.2	3.6	14.7	11.5
653088	5874541	Cabin	C259	4.2	3.6	14.7	11.5
653119	5874586	Cabin	C260	4.2	3.6	14.6	11.5
653053	5874685	Cabin	C261	4.2	3.6	14.7	11.5
653419	5874771	Cabin	C262	4.2	3.6	14.5	11.5
653624	5874867	Cabin	C263	4.2	3.6	14.4	11.5
653740	5875312	Cabin	C264	4.2	3.6	14.4	11.5
653331	5875587	Cabin	C265	4.1	3.6	14.6	11.5
653431	5876074	Cabin	C266	4.1	3.6	14.5	11.5
652687	5876590	Cabin	C267	4.1	3.6	14.8	11.5
653006	5877664	Cabin	C268	4.1	3.6	14.3	11.5
652913	5878002	Cabin	C269	4.0	3.6	14.2	11.5
654087	5876771	Cabin	C270	4.1	3.6	14.2	11.5
654390	5876812	Cabin	C271	4.1	3.6	14.0	11.5
654516	5876861	Cabin	C272	4.1	3.6	14.0	11.5
654613	5877129	Cabin	C273	4.0	3.6	13.9	11.5
654712	5877345	Cabin	C274	4.0	3.6	13.8	11.5
655194	5877509	Cabin	C275	4.0	3.6	13.6	11.5
655948	5877716	Cabin	C276	4.0	3.6	13.3	11.4
655845	5877809	Cabin	C277	4.0	3.6	13.3	11.4
655662	5878268	Cabin	C278	4.0	3.6	13.3	11.4
655612	5878362	Cabin	C279	4.0	3.6	13.3	11.4
655714	5878551	Cabin	C280	4.0	3.6	13.2	11.4
655750	5879082	Cabin	C281	3.9	3.6	13.1	11.4
655705	5879176	Cabin	C282	3.9	3.6	13.1	11.4
655698	5879229	Cabin	C283	3.9	3.6	13.0	11.4
655692	5879276	Cabin	C284	3.9	3.6	13.0	11.4
655687	5879312	Cabin	C285	3.9	3.6	13.0	11.4
655663	5879335	Cabin	C286	3.9	3.6	13.0	11.4
655586	5879390	Cabin	C287	3.9	3.6	13.0	11.4
655568	5879451	Cabin	C288	3.9	3.6	13.0	11.4
655536	5879531	Cabin	C289	3.9	3.6	13.0	11.4

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
655510	5879565	Cabin	C290	3.9	3.6	13.0	11.4
655522	5879635	Cabin	C291	3.9	3.6	13.0	11.4
655470	5879667	Cabin	C292	3.9	3.6	13.0	11.4
655759	5879806	Cabin	C293	3.9	3.6	12.8	11.4
655849	5879887	Cabin	C294	3.9	3.6	12.8	11.4
655904	5879874	Cabin	C295	3.9	3.6	12.8	11.4
655920	5879833	Cabin	C296	3.9	3.6	12.8	11.4
655937	5879788	Cabin	C297	3.9	3.6	12.8	11.4
655959	5879743	Cabin	C298	3.9	3.6	12.8	11.4
655981	5879336	Cabin	C299	3.9	3.6	12.9	11.4
656134	5879093	Cabin	C300	3.9	3.6	13.0	11.4
656122	5879037	Cabin	C301	3.9	3.6	13.0	11.4
656200	5878850	Cabin	C302	3.9	3.6	13.0	11.4
656222	5878811	Cabin	C303	3.9	3.6	13.0	11.4
656264	5878773	Cabin	C304	3.9	3.6	13.1	11.4
656283	5878750	Cabin	C305	3.9	3.6	13.1	11.4
656569	5878718	Cabin	C306	3.9	3.6	13.0	11.4
656610	5878724	Cabin	C307	3.9	3.6	13.0	11.4
656672	5878658	Cabin	C308	3.9	3.6	13.0	11.4
656727	5878687	Cabin	C309	3.9	3.6	13.0	11.4
657116	5878638	Cabin	C310	3.9	3.6	13.0	11.4
657218	5878747	Cabin	C311	3.9	3.6	12.9	11.4
656827	5878816	Cabin	C312	3.9	3.6	13.0	11.4
656811	5878856	Cabin	C313	3.9	3.6	13.0	11.4
656761	5878872	Cabin	C314	3.9	3.6	13.0	11.4
656749	5878923	Cabin	C315	3.9	3.6	13.0	11.4
656727	5878962	Cabin	C316	3.9	3.6	13.0	11.4
656706	5879002	Cabin	C317	3.9	3.6	12.9	11.4
656675	5879036	Cabin	C318	3.9	3.6	12.9	11.4
656652	5879085	Cabin	C319	3.9	3.6	12.9	11.4
656636	5879131	Cabin	C320	3.9	3.6	12.9	11.4
656387	5879799	Cabin	C321	3.9	3.6	12.8	11.4
656370	5879851	Cabin	C322	3.9	3.6	12.8	11.4
656353	5879896	Cabin	C323	3.9	3.6	12.8	11.4
653229	5878711	Cabin	C324	4.0	3.6	13.8	11.4
659194	5877695	Cabin	C325	3.9	3.6	12.8	11.4
659742	5879642	Cabin	C326	3.8	3.6	12.4	11.4
659782	5879684	Cabin	C327	3.8	3.6	12.4	11.4
659872	5879695	Cabin	C328	3.8	3.6	12.4	11.4
660349	5879906	Cabin	C329	3.8	3.6	12.3	11.4
660518	5879947	Cabin	C330	3.8	3.6	12.3	11.4
661421	5879718	Cabin	C331	3.8	3.6	12.2	11.4
661493	5879729	Cabin	C332	3.8	3.6	12.2	11.3
646105	5852102	Cabin	C333	7.6	3.9	35.7	13.2
647139	5852170	Cabin	C334	6.9	3.9	31.6	13.0
643788	5855912	Cabin	C335	11.9	4.0	**62.2**	14.1
641867	5855100	Cabin	C336	21.2	4.6	**122.8**	**17.5**
642951	5852301	Cabin	C337	8.9	4.1	43.3	14.4
640185	5848135	Cabin	C338	8.2	4.0	42.3	13.9
643735	5844087	Cabin	C339	6.2	3.8	24.9	12.3
643567	5839358	Cabin	C340	5.6	3.7	21.4	11.9
634702	5859483	Cabin	C341	11.5	4.2	**69.6**	**15.1**
634666	5859995	Cabin	C342	11.2	4.1	**64.3**	14.5
634659	5860951	Cabin	C343	9.4	4.0	47.7	13.6
632662	5861641	Cabin	C344	9.4	4.0	**50.8**	14.0
632659	5861856	Cabin	C345	9.1	4.0	48.9	13.9
633647	5862664	Cabin	C346	6.9	3.9	36.2	13.0
634888	5860864	Cabin	C347	9.3	4.0	47.4	13.6
634890	5860888	Cabin	C348	9.3	4.0	46.9	13.6
635091	5860937	Cabin	C349	8.8	4.0	42.8	13.5
635065	5860944	Cabin	C350	8.8	4.0	43.2	13.5
635052	5860976	Cabin	C351	8.8	4.0	43.2	13.5
634970	5860936	Cabin	C352	9.1	4.0	45.5	13.6

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
635023	5861008	Cabin	C353	8.9	4.0	43.4	13.5
634957	5861081	Cabin	C354	8.9	4.0	43.7	13.5
634815	5861127	Cabin	C355	9.0	4.0	44.4	13.5
635036	5861316	Cabin	C356	8.7	4.0	41.4	13.4
635162	5861326	Cabin	C357	8.6	4.0	40.5	13.5
634845	5861354	Cabin	C358	8.8	3.9	42.1	13.4
634799	5861381	Cabin	C359	8.8	3.9	42.0	13.4
634807	5861446	Cabin	C360	8.7	3.9	41.5	13.4
634799	5861486	Cabin	C361	8.7	3.9	41.3	13.4
634775	5861537	Cabin	C362	8.6	3.9	40.8	13.4
634754	5861592	Cabin	C363	8.6	3.9	40.4	13.3
634742	5861622	Cabin	C364	8.5	3.9	40.1	13.3
634700	5861717	Cabin	C365	8.4	3.9	39.2	13.3
634648	5861759	Cabin	C366	8.4	3.9	38.7	13.3
634612	5861830	Cabin	C367	8.3	3.9	38.0	13.2
634602	5861867	Cabin	C368	8.2	3.9	37.6	13.2
634794	5861748	Cabin	C369	8.4	3.9	39.0	13.3
634894	5861777	Cabin	C370	8.3	3.9	38.2	13.3
634797	5861656	Cabin	C371	8.5	3.9	39.9	13.3
634842	5861619	Cabin	C372	8.6	3.9	40.3	13.4
634856	5861562	Cabin	C373	8.6	3.9	40.7	13.4
634874	5861521	Cabin	C374	8.6	3.9	40.9	13.4
634872	5861484	Cabin	C375	8.7	3.9	41.3	13.4
634889	5861408	Cabin	C376	8.7	3.9	41.4	13.4
634927	5861378	Cabin	C377	8.7	3.9	41.5	13.4
634931	5861326	Cabin	C378	8.7	3.9	41.9	13.4
635001	5861307	Cabin	C379	8.7	4.0	41.6	13.4
635178	5861389	Cabin	C380	8.6	4.0	40.1	13.4
635129	5861415	Cabin	C381	8.6	4.0	40.1	13.4
635078	5861447	Cabin	C382	8.6	3.9	40.1	13.4
635041	5861481	Cabin	C383	8.5	3.9	39.9	13.4
635007	5861513	Cabin	C384	8.5	3.9	40.0	13.4
634975	5861552	Cabin	C385	8.5	3.9	39.7	13.4
634966	5861604	Cabin	C386	8.5	3.9	39.5	13.3
634965	5861650	Cabin	C387	8.4	3.9	39.1	13.3
634933	5861729	Cabin	C388	8.4	3.9	38.6	13.3
634720	5861903	Cabin	C389	8.2	3.9	37.2	13.2
634674	5861939	Cabin	C390	8.2	3.9	37.0	13.2
634633	5861947	Cabin	C391	8.1	3.9	36.9	13.2
631918	5864061	Cabin	C392	7.7	3.9	37.2	12.8
631635	5864245	Cabin	C393	7.7	3.8	36.8	12.7
631596	5864310	Cabin	C394	7.7	3.8	36.7	12.7
631426	5864364	Cabin	C395	7.7	3.8	36.2	12.7
631376	5864401	Cabin	C396	7.7	3.8	35.9	12.7
631353	5864438	Cabin	C397	7.7	3.8	35.7	12.7
631356	5864521	Cabin	C398	7.6	3.8	35.4	12.7
631202	5864478	Cabin	C399	7.7	3.8	34.9	12.6
631123	5864530	Cabin	C400	7.7	3.8	34.6	12.6
631228	5864629	Cabin	C401	7.6	3.8	34.5	12.6
630947	5864638	Cabin	C402	7.6	3.8	34.3	12.6
630884	5864669	Cabin	C403	7.6	3.8	34.1	12.5
630852	5864739	Cabin	C404	7.5	3.8	33.8	12.5
630795	5864783	Cabin	C405	7.5	3.8	33.6	12.5
630714	5864851	Cabin	C406	7.4	3.8	33.3	12.5
630606	5864913	Cabin	C407	7.4	3.8	32.8	12.4
630537	5864985	Cabin	C408	7.3	3.8	32.6	12.4
630525	5865056	Cabin	C409	7.3	3.8	32.3	12.4
630640	5865177	Cabin	C410	7.2	3.8	31.7	12.4
630567	5865763	Cabin	C411	6.8	3.8	29.5	12.3
631282	5865426	Cabin	C412	6.9	3.8	31.3	12.4
632004	5865578	Cabin	C413	6.3	3.8	27.6	12.4
632080	5865528	Cabin	C414	6.3	3.8	27.3	12.4
632587	5865628	Cabin	C415	5.9	3.8	23.4	12.3

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
632732	5866318	Cabin	C416	5.4	3.7	21.7	12.1
632922	5866042	Cabin	C417	5.4	3.8	22.8	12.2
632958	5866077	Cabin	C418	5.4	3.8	22.8	12.1
633002	5866062	Cabin	C419	5.4	3.8	22.9	12.1
633121	5866206	Cabin	C420	5.3	3.7	22.7	12.1
633171	5866177	Cabin	C421	5.2	3.7	22.8	12.1
633224	5866191	Cabin	C422	5.2	3.7	22.9	12.1
633281	5866125	Cabin	C423	5.3	3.7	23.2	12.1
633337	5866101	Cabin	C424	5.3	3.7	23.3	12.1
633366	5866083	Cabin	C425	5.3	3.7	23.4	12.1
633424	5866069	Cabin	C426	5.3	3.7	23.5	12.1
633441	5866043	Cabin	C427	5.3	3.7	23.6	12.1
633416	5866144	Cabin	C428	5.3	3.7	23.3	12.1
633382	5866155	Cabin	C429	5.3	3.7	23.2	12.1
633337	5866176	Cabin	C430	5.2	3.7	23.1	12.1
633263	5866223	Cabin	C431	5.2	3.7	22.9	12.1
633042	5864004	Cabin	C432	6.4	3.8	30.4	12.7
635709	5867706	Cabin	C433	5.1	3.7	22.0	12.0
625388	5863092	Cabin	C434	5.6	3.7	26.2	11.9
625920	5861156	Cabin	C435	7.6	3.7	40.8	12.0
625442	5861111	Cabin	C436	7.9	3.7	42.7	12.0
625549	5860833	Cabin	C437	8.2	3.7	45.4	12.0
625534	5860895	Cabin	C438	8.1	3.7	44.8	12.0
625503	5860935	Cabin	C439	8.1	3.7	44.5	12.0
625491	5860984	Cabin	C440	8.0	3.7	44.0	12.0
625463	5861044	Cabin	C441	7.9	3.7	43.4	12.0
627494	5859339	Cabin	C442	10.7	3.8	**65.2**	12.5
627568	5859552	Cabin	C443	10.3	3.8	**62.4**	12.4
627722	5859592	Cabin	C444	10.2	3.8	**62.4**	12.5
627868	5860070	Cabin	C445	8.6	3.8	**50.3**	12.5
627927	5860110	Cabin	C446	8.5	3.8	49.0	12.5
627972	5860154	Cabin	C447	8.3	3.8	47.6	12.6
628037	5860189	Cabin	C448	8.1	3.8	46.3	12.6
624767	5861052	Cabin	C449	8.1	3.7	43.7	12.0
636109	5858269	Cabin	C450	12.2	4.3	**67.5**	**15.9**
636117	5858111	Cabin	C451	12.6	4.3	**71.2**	**16.1**
636305	5857911	Cabin	C452	13.4	4.4	**79.1**	**16.8**
623261	5854417	Cabin	C453	6.0	3.7	25.8	11.9
622652	5855438	Cabin	C454	6.2	3.7	26.4	11.8
622708	5855457	Cabin	C455	6.2	3.7	26.6	11.8
624826	5857667	Cabin	C456	7.7	3.7	36.9	12.1
634870	5861276	Cabin	C457	8.8	3.9	42.6	13.4
638207	5859662	Cabin	C458	11.7	4.2	**53.1**	**15.0**
640974	5858285	Cabin	C459	10.7	4.3	**54.9**	**15.8**
641865	5856903	Cabin	C460	15.1	4.5	**82.1**	**16.7**
635118	5851125	Cabin	C461	18.9	4.4	**113.0**	**16.8**
646196	5852986	Cabin	C462	7.0	3.9	32.2	13.2
625475	5857021	Cabin (Quebec)	C463	7.9	3.8	37.7	12.3
626098	5856799	Cabin (Quebec)	C464	9.0	3.8	43.6	12.5
627564	5858039	Cabin (Quebec)	C465	11.8	3.9	**68.1**	13.0
629357	5857727	Cabin (Quebec)	C466	18.3	4.1	**119.6**	14.4
630419	5858921	Cabin (Quebec)	C467	15.5	4.3	**109.7**	**15.7**
626642	5855576	Cabin (Quebec)	C468	11.6	3.9	**59.8**	13.0
630232	5858750	Cabin (Quebec)	C469	18.4	4.2	**133.0**	**15.6**
623764	5852692	Cabin (Quebec)	C470	5.9	3.7	25.6	11.9
623459	5850433	Cabin (Quebec)	C471	5.6	3.7	23.4	11.8
623460	5850000	Cabin (Quebec)	C472	5.5	3.7	23.8	11.8
624604	5850547	Cabin (Quebec)	C473	6.1	3.7	27.4	12.0
624617	5847632	Cabin (Quebec)	C474	6.0	3.8	24.5	12.1
624830	5847971	Cabin (Quebec)	C475	6.1	3.8	25.3	12.2
625323	5848229	Cabin (Quebec)	C476	6.4	3.8	26.3	12.3
625741	5848075	Cabin (Quebec)	C477	6.9	3.8	29.7	12.4
625759	5847941	Cabin (Quebec)	C478	7.0	3.8	30.0	12.4

Table 2-2: Air Quality Screening for Particulate Matter (PM)

Easting	Northing	Receptor Type	HHRA ID	24 hr PM2.5 (ug/m^3)	Annual PM2.5 (ug/m^3)	24 hr PM10 (ug/m^3)	Annual PM10 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	27	8.8	50	15
625815	5847804	Cabin (Quebec)	C479	7.0	3.8	30.4	12.5
626223	5849126	Cabin (Quebec)	C480	7.2	3.8	30.4	12.6
625431	5849151	Cabin (Quebec)	C481	6.2	3.8	28.0	12.3
626474	5847197	Cabin (Quebec)	C482	7.6	3.8	32.9	12.6
626396	5845965	Cabin (Quebec)	C483	7.3	3.8	30.6	12.4
626683	5845314	Cabin (Quebec)	C484	7.3	3.8	29.5	12.3
626999	5845577	Cabin (Quebec)	C485	7.5	3.8	30.2	12.3
627003	5846179	Cabin (Quebec)	C486	7.5	3.8	30.6	12.4
626961	5846463	Cabin (Quebec)	C487	7.6	3.8	31.7	12.5
627273	5846354	Cabin (Quebec)	C488	7.6	3.8	31.3	12.5
627718	5845172	Cabin (Quebec)	C489	7.5	3.8	31.1	12.3
628038	5844373	Cabin (Quebec)	C490	7.3	3.8	30.9	12.2
628284	5848046	Cabin (Quebec)	C491	8.4	3.9	36.1	12.8
628253	5848298	Cabin (Quebec)	C492	8.6	3.9	37.3	12.9
628223	5848529	Cabin (Quebec)	C493	8.6	3.9	39.0	12.9
628578	5846400	Cabin (Quebec)	C494	8.0	3.8	35.9	12.5
629041	5844898	Cabin (Quebec)	C495	7.5	3.8	35.0	12.4
629002	5847706	Cabin (Quebec)	C496	8.4	3.8	38.3	12.7
628885	5847934	Cabin (Quebec)	C497	8.5	3.9	38.3	12.8
629224	5848000	Cabin (Quebec)	C498	8.6	3.9	41.1	12.9
629015	5847203	Cabin (Quebec)	C499	8.2	3.8	38.8	12.7
629458	5847746	Cabin (Quebec)	C500	8.4	3.9	42.3	12.9
629868	5847537	Cabin (Quebec)	C501	8.3	3.9	44.2	12.9
629643	5846372	Cabin (Quebec)	C502	7.8	3.8	39.3	12.6
631620	5848435	Cabin (Quebec)	C503	9.6	4.0	**55.3**	13.8
631326	5847777	Cabin (Quebec)	C504	9.1	3.9	**50.9**	13.4
631880	5848045	Cabin (Quebec)	C505	9.0	4.0	**50.4**	13.6
631823	5847529	Cabin (Quebec)	C506	8.5	3.9	46.7	13.4
631882	5847345	Cabin (Quebec)	C507	8.3	3.9	45.0	13.3
632025	5846766	Cabin (Quebec)	C508	7.7	3.9	40.6	13.1
630856	5847060	Cabin (Quebec)	C509	8.5	3.9	46.8	13.1
630937	5846640	Cabin (Quebec)	C510	8.2	3.9	44.2	13.0
631031	5846241	Cabin (Quebec)	C511	7.9	3.9	41.8	12.9
631246	5846057	Cabin (Quebec)	C512	7.7	3.9	40.4	12.8
631149	5846104	Cabin (Quebec)	C513	7.8	3.9	40.9	12.9
630186	5845857	Cabin (Quebec)	C514	7.7	3.8	40.1	12.7
630521	5844827	Cabin (Quebec)	C515	7.2	3.8	36.2	12.5
630500	5845041	Cabin (Quebec)	C516	7.3	3.8	37.0	12.6
631014	5845317	Cabin (Quebec)	C517	7.4	3.8	37.5	12.7
631354	5845361	Cabin (Quebec)	C518	7.3	3.8	36.9	12.7
632084	5844943	Cabin (Quebec)	C519	6.8	3.8	34.0	12.6
632227	5845440	Cabin (Quebec)	C520	7.0	3.8	35.1	12.7
631938	5845809	Cabin (Quebec)	C521	7.2	3.8	36.6	12.8
631611	5845632	Cabin (Quebec)	C522	7.3	3.8	37.1	12.7
631655	5845664	Cabin (Quebec)	C523	7.3	3.8	37.1	12.8
628692	5842475	Cabin (Quebec)	C524	6.5	3.7	28.6	12.1
628547	5842771	Cabin (Quebec)	C525	6.6	3.7	28.9	12.1
628397	5843141	Cabin (Quebec)	C526	6.8	3.7	29.4	12.1
627634	5843239	Cabin (Quebec)	C527	7.0	3.7	28.4	12.1
628194	5841854	Cabin (Quebec)	C528	6.5	3.7	27.4	12.0

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
			Maximum	940.1	455.3	32.2	1.7	1.3	0.8
			Maximum Location	LU12	LU12	LU12	LU12	LU12	LU12
635960	5857471	Previous Receptors (Alderon 2012)	L1	**399.09**	132.56	13.05	1.24	0.94	0.80
641590	5856650	Previous Receptors (Alderon 2012)	L2	**201.30**	61.14	10.45	1.02	0.85	0.79
643605	5861877	Closest Residences	R1	**94.33**	25.86	6.25	0.89	0.81	0.79
639817	5866611	Closest Residences	R2	**92.61**	23.17	6.06	0.89	0.80	0.79
629503	5851281	Closest Residences	R3	**179.60**	73.09	8.83	0.98	0.87	0.79
643660	5863077	Schools	S1	**84.86**	24.44	6.11	0.88	0.81	0.79
640302	5867360	Schools	S2	**87.38**	22.11	5.98	0.88	0.80	0.79
628698	5851350	Schools	S3/H2	**182.20**	65.77	8.29	0.97	0.86	0.79
638645	5868619	Hospitals	H1	77.08	17.63	5.67	0.87	0.80	0.79
641084	5860083	Land User	LU1	**158.70**	47.37	7.95	0.96	0.83	0.79
640822	5853090	Land User	LU2	**235.30**	86.20	9.15	1.04	0.88	0.79
644385	5853041	Land User	LU3	**121.82**	43.68	7.32	0.93	0.83	0.79
634182	5862441	Land User	LU4	**170.69**	40.54	7.31	0.94	0.83	0.79
633008	5862216	Land User	LU5	**167.13**	50.30	7.49	0.94	0.84	0.79
638099	5858559	Land User	LU6	**294.72**	82.30	12.44	1.21	0.89	0.79
637075	5847770	Land User	LU7	**112.62**	30.85	7.01	0.88	0.82	0.79
640649	5848093	Land User	LU8	**110.02**	38.41	7.18	0.92	0.83	0.79
643498	5844896	Land User	LU9	75.04	28.52	6.11	0.87	0.81	0.79
642596	5841626	Land User	LU10	57.38	21.02	5.76	0.85	0.80	0.79
636075	5858014	Land User	LU11	**327.99**	106.36	11.55	1.18	0.92	0.79
631162	5855850	Land User	LU12	**940.09**	455.34	**32.17**	1.74	1.27	0.82
631662	5848350	Land User	LU13	**169.31**	61.82	7.62	0.97	0.85	0.79
632162	5845850	Land User	LU14	**85.90**	34.35	6.56	0.87	0.82	0.79
635730	5849661	Cabin	C1	**118.56**	36.31	8.20	0.90	0.82	0.79
636577	5858531	Cabin	C2	**291.85**	110.42	11.74	1.12	0.92	0.79
636140	5858010	Cabin	C3	**340.39**	110.08	11.39	1.19	0.92	0.79
636150	5857871	Cabin	C4	**347.14**	121.48	11.89	1.20	0.93	0.79
636111	5857723	Cabin	C5	**401.27**	129.37	12.29	1.24	0.94	0.79
636065	5857542	Cabin	C6	**441.00**	133.64	12.59	1.25	0.95	0.80
636018	5857320	Cabin	C7	**425.08**	128.65	13.07	1.25	0.95	0.80
636115	5857199	Cabin	C8	**512.15**	142.02	13.72	1.34	0.97	0.80
636071	5857083	Cabin	C9	**520.66**	132.68	14.04	1.37	0.96	0.80
636105	5856822	Cabin	C10	**516.70**	118.42	14.92	1.33	0.95	0.80
636098	5856774	Cabin	C11	**513.33**	117.78	15.49	1.31	0.95	0.80
636907	5856913	Cabin	C12 (MAX)	**456.06**	160.92	14.34	1.36	1.00	0.80
637468	5857501	Cabin	C13	**344.49**	77.28	12.60	1.23	0.90	0.80
637586	5857770	Cabin	C14	**339.13**	97.45	12.88	1.23	0.93	0.80
637560	5858030	Cabin	C15	**300.00**	99.59	12.23	1.18	0.92	0.80
637559	5858098	Cabin	C16	**301.38**	103.06	12.23	1.18	0.92	0.80
637382	5858387	Cabin	C17	**303.01**	110.05	11.87	1.15	0.92	0.79
636439	5858885	Cabin	C18	**261.28**	104.67	10.75	1.09	0.91	0.79
636532	5858958	Cabin	C19	**278.69**	106.98	10.97	1.11	0.91	0.79
636641	5859177	Cabin	C20	**285.38**	108.32	11.01	1.11	0.91	0.79
636587	5859379	Cabin	C21	**261.53**	104.47	10.59	1.09	0.91	0.79
636606	5859083	Cabin	C22	**287.10**	108.18	11.06	1.12	0.91	0.79
636333	5859399	Cabin	C23	**230.79**	94.36	9.90	1.05	0.90	0.79
636210	5859591	Cabin	C24	**210.43**	87.64	9.44	1.03	0.89	0.79
637527	5858534	Cabin	C25	**282.31**	102.16	11.55	1.15	0.91	0.79
638188	5859443	Cabin	C26	**260.02**	77.35	10.47	1.11	0.87	0.79
638031	5859903	Cabin	C27	**248.02**	72.56	10.03	1.08	0.87	0.79
638118	5860165	Cabin	C28	**238.49**	66.40	9.62	1.06	0.86	0.79
638095	5860245	Cabin	C29	**234.83**	64.86	9.54	1.06	0.86	0.79
635722	5860584	Cabin	C30	**174.44**	69.53	8.42	0.97	0.86	0.79
635612	5860422	Cabin	C31	**173.32**	66.04	8.15	0.97	0.86	0.79
635465	5860366	Cabin	C32	**175.44**	61.90	7.90	0.97	0.86	0.79
635190	5860556	Cabin	C33	**184.99**	56.80	7.72	0.98	0.85	0.79
635188	5860635	Cabin	C34	**185.24**	56.98	7.75	0.98	0.85	0.79
635168	5860785	Cabin	C35	**185.16**	56.75	7.78	0.98	0.85	0.79
635180	5860828	Cabin	C36	**184.08**	56.72	7.79	0.98	0.85	0.79
635148	5860858	Cabin	C37	**184.87**	56.33	7.78	0.98	0.85	0.79
640778	5857817	Cabin	C38	**303.91**	109.99	11.13	1.10	0.88	0.79
640792	5857910	Cabin	C39	**308.48**	100.65	10.88	1.10	0.88	0.79

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
641137	5857913	Cabin	C40	**276.68**	93.35	10.31	1.07	0.87	0.79
641364	5857725	Cabin	C41	**277.66**	98.71	10.37	1.06	0.86	0.79
641817	5857027	Cabin	C42	**232.19**	62.81	10.04	1.03	0.84	0.79
641845	5856814	Cabin	C43	**223.17**	58.73	10.02	1.02	0.84	0.79
641912	5857277	Cabin	C44	**231.67**	71.51	9.85	1.01	0.84	0.79
641840	5857280	Cabin	C45	**234.03**	73.01	9.97	1.02	0.84	0.79
641870	5857362	Cabin	C46	**227.52**	76.47	9.90	1.01	0.84	0.79
641637	5857345	Cabin	C47	**236.29**	80.76	10.32	1.03	0.85	0.79
641560	5857425	Cabin	C48	**234.24**	86.95	10.41	1.03	0.85	0.79
641454	5857455	Cabin	C49	**234.88**	91.17	10.58	1.03	0.86	0.79
641550	5857525	Cabin	C50	**230.26**	91.70	10.33	1.02	0.85	0.79
641466	5857605	Cabin	C51	**254.86**	96.11	10.37	1.04	0.86	0.79
643367	5857533	Cabin	C52	**167.78**	60.03	8.26	0.96	0.83	0.79
641285	5858131	Cabin	C53	**259.34**	73.80	9.73	1.06	0.86	0.79
641270	5858280	Cabin	C54	**257.34**	68.63	9.51	1.04	0.86	0.79
645508	5854970	Cabin	C55	**103.49**	25.27	6.97	0.90	0.81	0.79
645337	5854863	Cabin	C56	**106.53**	26.78	7.04	0.90	0.81	0.79
645280	5854855	Cabin	C57	**107.20**	27.02	7.05	0.90	0.81	0.79
644937	5855135	Cabin	C58	**110.80**	26.24	7.10	0.90	0.81	0.79
644879	5855382	Cabin	C59	**118.78**	25.07	7.06	0.90	0.81	0.79
644973	5855439	Cabin	C60	**120.16**	25.47	7.03	0.90	0.81	0.79
645128	5855811	Cabin	C61	**127.33**	28.11	6.93	0.91	0.81	0.79
645033	5855931	Cabin	C62	**132.00**	29.52	6.98	0.91	0.81	0.79
645036	5856103	Cabin	C63	**134.35**	31.06	6.98	0.91	0.81	0.79
645180	5855879	Cabin	C64	**128.16**	28.67	6.92	0.91	0.81	0.79
645330	5855813	Cabin	C65	**125.91**	28.15	6.90	0.91	0.81	0.79
645506	5855706	Cabin	C66	**123.74**	27.55	6.90	0.91	0.81	0.79
645632	5855645	Cabin	C67	**123.06**	27.42	6.92	0.91	0.81	0.79
645590	5855519	Cabin	C68	**118.82**	26.10	6.90	0.90	0.81	0.79
645598	5855459	Cabin	C69	**118.19**	25.81	6.93	0.90	0.81	0.79
645662	5855286	Cabin	C70	**111.71**	24.86	6.91	0.90	0.81	0.79
645835	5855153	Cabin	C71	**105.90**	24.12	6.88	0.89	0.81	0.79
645976	5855021	Cabin	C72	**102.01**	24.00	6.89	0.89	0.81	0.79
646064	5854763	Cabin	C73	**101.64**	25.09	6.91	0.90	0.81	0.79
645907	5854390	Cabin	C74	**106.30**	30.68	7.01	0.90	0.82	0.79
645885	5854242	Cabin	C75	**108.36**	33.74	7.05	0.90	0.82	0.79
645737	5853966	Cabin	C76	**109.02**	36.34	7.05	0.90	0.82	0.79
646109	5853232	Cabin	C77	**107.36**	37.39	6.97	0.89	0.82	0.79
646092	5852876	Cabin	C78	**106.96**	36.93	6.93	0.89	0.82	0.79
646044	5852660	Cabin	C79	**106.80**	37.06	6.90	0.89	0.82	0.79
646428	5852634	Cabin	C80	**103.67**	36.20	6.85	0.89	0.82	0.79
646459	5852650	Cabin	C81	**103.43**	36.12	6.85	0.89	0.82	0.79
647491	5856467	Cabin	C82	**102.72**	28.31	6.44	0.88	0.80	0.79
647943	5857121	Cabin	C83	**94.31**	29.14	6.36	0.88	0.80	0.79
650541	5853616	Cabin	C84	76.03	17.65	6.12	0.86	0.80	0.79
649585	5855076	Cabin	C85	**90.56**	19.18	6.12	0.86	0.80	0.79
649478	5856416	Cabin	C86	**92.24**	23.27	6.08	0.86	0.80	0.79
647046	5860524	Cabin	C87	**83.23**	22.43	6.10	0.87	0.81	0.79
649298	5858934	Cabin	C88	72.22	24.32	6.01	0.86	0.80	0.79
649221	5858590	Cabin	C89	73.85	25.35	6.06	0.86	0.80	0.79
655939	5864862	Cabin	C90	36.78	11.33	5.27	0.82	0.79	0.79
653216	5864965	Cabin	C91	45.88	12.84	5.35	0.83	0.80	0.79
650592	5866521	Cabin	C92	49.44	13.49	5.46	0.84	0.80	0.79
654383	5868124	Cabin	C93	37.37	11.60	5.28	0.82	0.79	0.79
652330	5866689	Cabin	C94	42.99	12.80	5.37	0.83	0.80	0.79
652553	5866833	Cabin	C95	42.57	12.68	5.36	0.83	0.80	0.79
651537	5866940	Cabin	C96	45.23	12.98	5.40	0.83	0.80	0.79
651680	5866973	Cabin	C97	44.73	12.92	5.40	0.83	0.80	0.79
652221	5867025	Cabin	C98	42.71	12.71	5.37	0.83	0.80	0.79
652077	5867051	Cabin	C99	43.30	12.75	5.38	0.83	0.80	0.79
651961	5867112	Cabin	C100	43.85	12.77	5.38	0.83	0.80	0.79
651905	5867245	Cabin	C101	44.21	12.72	5.38	0.83	0.80	0.79
651748	5867033	Cabin	C102	44.56	12.87	5.39	0.83	0.80	0.79
651696	5867089	Cabin	C103	44.83	12.86	5.39	0.83	0.80	0.79

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
651770	5867105	Cabin	C104	44.57	12.83	5.39	0.83	0.80	0.79
651729	5867176	Cabin	C105	44.81	12.81	5.39	0.83	0.80	0.79
651644	5867146	Cabin	C106	45.10	12.85	5.39	0.83	0.80	0.79
651661	5867207	Cabin	C107	45.10	12.81	5.39	0.83	0.80	0.79
651724	5867266	Cabin	C108	44.92	12.77	5.39	0.83	0.80	0.79
651643	5867292	Cabin	C109	45.25	12.77	5.39	0.83	0.80	0.79
651530	5867285	Cabin	C110	45.67	12.81	5.40	0.83	0.80	0.79
651454	5867326	Cabin	C111	45.99	12.80	5.40	0.83	0.80	0.79
651429	5867373	Cabin	C112	46.12	12.78	5.40	0.83	0.80	0.79
651534	5867399	Cabin	C113	45.75	12.74	5.39	0.83	0.80	0.79
651493	5867516	Cabin	C114	45.98	12.69	5.39	0.83	0.80	0.79
651408	5867479	Cabin	C115	46.27	12.73	5.40	0.83	0.80	0.79
651364	5867523	Cabin	C116	46.47	12.71	5.40	0.83	0.80	0.79
651278	5867742	Cabin	C117	46.86	12.60	5.40	0.83	0.79	0.79
651350	5867873	Cabin	C118	46.58	12.50	5.39	0.83	0.79	0.79
644982	5868164	Cabin	C119	70.17	17.80	5.65	0.86	0.80	0.79
645736	5872547	Cabin	C120	57.40	14.33	5.42	0.84	0.80	0.79
647298	5871617	Cabin	C121	52.41	13.70	5.39	0.84	0.80	0.79
647380	5872093	Cabin	C122	50.94	13.38	5.37	0.84	0.80	0.79
647567	5872814	Cabin	C123	48.12	12.83	5.34	0.83	0.80	0.79
648994	5873411	Cabin	C124	39.82	11.53	5.29	0.83	0.79	0.79
648810	5872842	Cabin	C125	41.90	11.88	5.31	0.83	0.79	0.79
649250	5872924	Cabin	C126	39.62	11.53	5.30	0.82	0.79	0.79
649691	5872831	Cabin	C127	38.78	11.27	5.29	0.82	0.79	0.79
649454	5872485	Cabin	C128	39.66	11.51	5.31	0.82	0.79	0.79
648506	5871449	Cabin	C129	45.67	12.64	5.36	0.83	0.79	0.79
648477	5871383	Cabin	C130	45.90	12.69	5.37	0.83	0.79	0.79
648480	5871299	Cabin	C131	45.96	12.71	5.37	0.83	0.79	0.79
649256	5871272	Cabin	C132	42.80	12.00	5.35	0.83	0.79	0.79
649219	5871153	Cabin	C133	43.03	12.06	5.36	0.83	0.79	0.79
649040	5870831	Cabin	C134	43.85	12.29	5.37	0.83	0.79	0.79
648373	5871125	Cabin	C135	46.74	12.87	5.38	0.83	0.79	0.79
648315	5870872	Cabin	C136	47.24	12.99	5.39	0.83	0.79	0.79
647828	5870049	Cabin	C137	50.46	13.68	5.44	0.84	0.80	0.79
647878	5869444	Cabin	C138	51.23	13.69	5.46	0.84	0.80	0.79
648314	5870737	Cabin	C139	47.30	13.02	5.40	0.83	0.79	0.79
648272	5870692	Cabin	C140	47.58	13.08	5.40	0.83	0.80	0.79
648269	5870647	Cabin	C141	47.61	13.09	5.40	0.83	0.80	0.79
648258	5870593	Cabin	C142	47.69	13.11	5.40	0.83	0.80	0.79
648264	5870554	Cabin	C143	47.66	13.12	5.40	0.83	0.80	0.79
648270	5870506	Cabin	C144	47.63	13.12	5.41	0.83	0.79	0.79
648272	5870458	Cabin	C145	47.62	13.13	5.41	0.83	0.79	0.79
648265	5870409	Cabin	C146	47.66	13.14	5.41	0.83	0.79	0.79
648284	5870335	Cabin	C147	47.54	13.14	5.41	0.83	0.79	0.79
648252	5870309	Cabin	C148	47.74	13.17	5.41	0.83	0.79	0.79
649181	5870379	Cabin	C149	45.89	12.21	5.38	0.83	0.79	0.79
648970	5869837	Cabin	C150	48.61	12.68	5.41	0.83	0.79	0.79
648958	5869792	Cabin	C151	48.83	12.72	5.41	0.83	0.79	0.79
648936	5869728	Cabin	C152	49.14	12.78	5.41	0.84	0.79	0.79
648920	5869646	Cabin	C153	49.52	12.86	5.41	0.84	0.79	0.79
648852	5870349	Cabin	C154	46.37	12.54	5.39	0.83	0.79	0.79
648843	5870252	Cabin	C155	46.84	12.56	5.40	0.83	0.79	0.79
648898	5870384	Cabin	C156	46.16	12.49	5.39	0.83	0.79	0.79
648951	5870402	Cabin	C157	46.02	12.44	5.39	0.83	0.79	0.79
649025	5870559	Cabin	C158	45.20	12.34	5.38	0.83	0.79	0.79
648631	5869828	Cabin	C159	49.03	12.83	5.42	0.84	0.79	0.79
648642	5869878	Cabin	C160	48.79	12.80	5.42	0.83	0.79	0.79
648651	5869930	Cabin	C161	48.54	12.79	5.41	0.83	0.79	0.79
648642	5870001	Cabin	C162	48.21	12.79	5.41	0.83	0.79	0.79
648638	5870052	Cabin	C163	47.97	12.79	5.41	0.83	0.79	0.79
648632	5870102	Cabin	C164	47.74	12.80	5.41	0.83	0.79	0.79
648640	5870160	Cabin	C165	47.45	12.78	5.41	0.83	0.79	0.79
648630	5870277	Cabin	C166	46.88	12.78	5.40	0.83	0.79	0.79
648618	5870215	Cabin	C167	47.19	12.80	5.40	0.83	0.79	0.79

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
648594	5870174	Cabin	C168	47.41	12.83	5.41	0.83	0.79	0.79
648572	5870134	Cabin	C169	47.62	12.86	5.41	0.83	0.79	0.79
648562	5870092	Cabin	C170	47.83	12.87	5.41	0.83	0.79	0.79
648563	5870003	Cabin	C171	48.26	12.88	5.41	0.83	0.79	0.79
648562	5869933	Cabin	C172	48.60	12.88	5.42	0.83	0.79	0.79
648542	5869871	Cabin	C173	48.91	12.91	5.42	0.84	0.79	0.79
648509	5869939	Cabin	C174	48.61	12.94	5.42	0.83	0.79	0.79
648495	5869806	Cabin	C175	49.25	12.97	5.42	0.84	0.79	0.79
648497	5869710	Cabin	C176	49.69	12.99	5.43	0.84	0.80	0.79
648450	5869788	Cabin	C177	49.37	13.02	5.43	0.84	0.80	0.79
648394	5869829	Cabin	C178	49.21	13.08	5.43	0.84	0.80	0.79
648333	5869845	Cabin	C179	49.16	13.14	5.43	0.84	0.80	0.79
648183	5869654	Cabin	C180	50.14	13.32	5.44	0.84	0.80	0.79
648163	5869723	Cabin	C181	49.82	13.34	5.44	0.84	0.80	0.79
648128	5869768	Cabin	C182	49.61	13.38	5.44	0.84	0.80	0.79
648100	5869845	Cabin	C183	49.24	13.40	5.44	0.84	0.80	0.79
648110	5869905	Cabin	C184	48.94	13.38	5.43	0.84	0.80	0.79
648153	5869932	Cabin	C185	48.80	13.33	5.43	0.83	0.80	0.79
648059	5869943	Cabin	C186	48.88	13.44	5.43	0.84	0.80	0.79
648034	5869998	Cabin	C187	49.07	13.46	5.43	0.84	0.80	0.79
648094	5870000	Cabin	C188	48.68	13.39	5.43	0.84	0.80	0.79
648089	5870035	Cabin	C189	48.73	13.39	5.43	0.84	0.80	0.79
648087	5870095	Cabin	C190	48.76	13.39	5.43	0.84	0.80	0.79
648099	5870138	Cabin	C191	48.70	13.37	5.42	0.84	0.80	0.79
648165	5870013	Cabin	C192	48.40	13.31	5.43	0.83	0.79	0.79
648175	5870059	Cabin	C193	48.17	13.29	5.43	0.83	0.79	0.79
648198	5870103	Cabin	C194	48.03	13.26	5.42	0.83	0.79	0.79
648206	5870040	Cabin	C195	48.25	13.26	5.42	0.83	0.79	0.79
648201	5869958	Cabin	C196	48.66	13.28	5.43	0.83	0.79	0.79
648259	5870043	Cabin	C197	48.22	13.20	5.42	0.83	0.79	0.79
648249	5869959	Cabin	C198	48.64	13.22	5.43	0.83	0.79	0.79
648277	5869977	Cabin	C199	48.55	13.19	5.42	0.83	0.79	0.79
648280	5869924	Cabin	C200	48.80	13.19	5.43	0.83	0.79	0.79
651945	5870271	Cabin	C201	40.37	10.91	5.30	0.83	0.79	0.79
651677	5870154	Cabin	C202	41.41	11.04	5.31	0.83	0.79	0.79
651358	5870320	Cabin	C203	41.75	11.15	5.32	0.83	0.79	0.79
651367	5870393	Cabin	C204	41.49	11.12	5.31	0.83	0.79	0.79
651356	5870439	Cabin	C205	41.36	11.11	5.31	0.83	0.79	0.79
651157	5870971	Cabin	C206	41.81	11.02	5.31	0.83	0.79	0.79
651172	5870889	Cabin	C207	41.79	11.05	5.31	0.83	0.79	0.79
651287	5870887	Cabin	C208	41.51	10.97	5.30	0.83	0.79	0.79
651278	5870756	Cabin	C209	41.53	11.07	5.31	0.83	0.79	0.79
651334	5870667	Cabin	C210	41.35	11.05	5.31	0.83	0.79	0.79
651541	5870880	Cabin	C211	40.98	10.93	5.30	0.82	0.79	0.79
651555	5870971	Cabin	C212	40.97	10.89	5.29	0.82	0.79	0.79
651664	5872079	Cabin	C213	40.12	10.39	5.27	0.82	0.79	0.79
651168	5872216	Cabin	C214	40.51	10.30	5.27	0.82	0.79	0.79
651309	5872616	Cabin	C215	39.59	10.12	5.26	0.82	0.79	0.79
651406	5872687	Cabin	C216	39.36	10.08	5.26	0.82	0.79	0.79
651702	5872788	Cabin	C217	38.86	9.98	5.25	0.82	0.79	0.79
652123	5872653	Cabin	C218	38.58	10.11	5.24	0.82	0.79	0.79
652137	5872385	Cabin	C219	38.97	10.24	5.25	0.82	0.79	0.79
651902	5872256	Cabin	C220	39.52	10.31	5.26	0.82	0.79	0.79
652139	5871372	Cabin	C221	39.71	10.64	5.27	0.82	0.79	0.79
652202	5871434	Cabin	C222	39.56	10.61	5.27	0.82	0.79	0.79
652479	5871780	Cabin	C223	38.85	10.46	5.25	0.82	0.79	0.79
652688	5871967	Cabin	C224	38.29	10.36	5.24	0.82	0.79	0.79
653634	5871447	Cabin	C225	35.88	10.15	5.24	0.82	0.79	0.79
654237	5871709	Cabin	C226	34.28	9.91	5.22	0.82	0.79	0.79
654126	5871774	Cabin	C227	34.61	9.95	5.22	0.82	0.79	0.79
654058	5871822	Cabin	C228	34.81	9.98	5.22	0.82	0.79	0.79
653897	5872230	Cabin	C229	35.22	10.02	5.22	0.81	0.79	0.79
653958	5872375	Cabin	C230	35.00	9.98	5.21	0.81	0.79	0.79
653813	5872764	Cabin	C231	35.09	9.94	5.21	0.81	0.79	0.79

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
654316	5873211	Cabin	C232	33.44	9.77	5.19	0.81	0.79	0.79
654464	5873391	Cabin	C233	32.86	9.67	5.18	0.81	0.79	0.79
654568	5873147	Cabin	C234	32.89	9.70	5.19	0.81	0.79	0.79
654435	5873112	Cabin	C235	33.27	9.77	5.19	0.81	0.79	0.79
654502	5873072	Cabin	C236	33.13	9.75	5.19	0.81	0.79	0.79
654560	5873037	Cabin	C237	33.02	9.73	5.19	0.81	0.79	0.79
654417	5873018	Cabin	C238	33.41	9.80	5.19	0.81	0.79	0.79
654533	5872976	Cabin	C239	33.15	9.76	5.19	0.81	0.79	0.79
654475	5872843	Cabin	C240	33.41	9.81	5.20	0.81	0.79	0.79
654527	5872824	Cabin	C241	33.29	9.79	5.19	0.81	0.79	0.79
654585	5872884	Cabin	C242	33.08	9.75	5.19	0.81	0.79	0.79
654712	5872759	Cabin	C243	32.82	9.70	5.19	0.81	0.79	0.79
654603	5872652	Cabin	C244	33.20	9.79	5.20	0.81	0.79	0.79
654615	5872495	Cabin	C245	33.23	9.79	5.20	0.81	0.79	0.79
654701	5872347	Cabin	C246	33.03	9.75	5.20	0.81	0.79	0.79
654827	5872301	Cabin	C247	32.67	9.68	5.20	0.81	0.79	0.79
654883	5872208	Cabin	C248	32.51	9.65	5.20	0.81	0.79	0.79
654891	5872150	Cabin	C249	32.48	9.64	5.20	0.81	0.79	0.79
654759	5872177	Cabin	C250	32.88	9.73	5.20	0.81	0.79	0.79
654788	5872127	Cabin	C251	32.80	9.71	5.20	0.81	0.79	0.79
655144	5871118	Cabin	C252	31.09	10.04	5.22	0.81	0.79	0.79
648102	5875979	Cabin	C253	35.74	10.56	5.22	0.82	0.79	0.79
651945	5874721	Cabin	C254	33.22	9.80	5.20	0.81	0.79	0.79
652653	5874100	Cabin	C255	34.68	9.41	5.20	0.81	0.79	0.79
653035	5874384	Cabin	C256	33.48	9.28	5.19	0.81	0.79	0.79
653048	5874439	Cabin	C257	33.32	9.25	5.19	0.81	0.79	0.79
653058	5874488	Cabin	C258	33.17	9.22	5.19	0.81	0.79	0.79
653088	5874541	Cabin	C259	32.99	9.20	5.19	0.81	0.79	0.79
653119	5874586	Cabin	C260	32.83	9.18	5.19	0.81	0.79	0.79
653053	5874685	Cabin	C261	32.63	9.20	5.18	0.81	0.79	0.79
653419	5874771	Cabin	C262	31.97	9.13	5.18	0.81	0.79	0.79
653624	5874867	Cabin	C263	31.45	9.13	5.17	0.81	0.79	0.79
653740	5875312	Cabin	C264	30.04	8.86	5.16	0.81	0.79	0.79
653331	5875587	Cabin	C265	29.62	9.01	5.16	0.81	0.79	0.79
653431	5876074	Cabin	C266	27.99	8.90	5.15	0.81	0.79	0.79
652687	5876590	Cabin	C267	26.52	9.07	5.14	0.81	0.79	0.79
653006	5877664	Cabin	C268	23.74	8.57	5.11	0.81	0.79	0.79
652913	5878002	Cabin	C269	23.17	8.45	5.10	0.81	0.79	0.79
654087	5876771	Cabin	C270	25.28	8.48	5.12	0.81	0.79	0.79
654390	5876812	Cabin	C271	24.90	8.34	5.11	0.81	0.79	0.79
654516	5876861	Cabin	C272	24.64	8.28	5.11	0.81	0.79	0.79
654613	5877129	Cabin	C273	23.87	8.19	5.10	0.81	0.79	0.79
654712	5877345	Cabin	C274	23.59	8.10	5.10	0.80	0.79	0.79
655194	5877509	Cabin	C275	23.04	7.88	5.09	0.80	0.79	0.79
655948	5877716	Cabin	C276	22.13	7.83	5.07	0.80	0.79	0.79
655845	5877809	Cabin	C277	22.14	7.77	5.07	0.80	0.79	0.79
655662	5878268	Cabin	C278	21.78	7.52	5.06	0.80	0.79	0.79
655612	5878362	Cabin	C279	21.69	7.51	5.06	0.80	0.79	0.79
655714	5878551	Cabin	C280	21.36	7.42	5.05	0.80	0.79	0.79
655750	5879082	Cabin	C281	20.55	7.26	5.04	0.80	0.79	0.79
655705	5879176	Cabin	C282	20.42	7.24	5.03	0.80	0.79	0.79
655698	5879229	Cabin	C283	20.34	7.23	5.03	0.80	0.79	0.79
655692	5879276	Cabin	C284	20.27	7.22	5.03	0.80	0.79	0.79
655687	5879312	Cabin	C285	20.21	7.21	5.03	0.80	0.79	0.79
655663	5879335	Cabin	C286	20.19	7.21	5.03	0.80	0.79	0.79
655586	5879390	Cabin	C287	20.15	7.21	5.03	0.80	0.79	0.79
655568	5879451	Cabin	C288	20.05	7.19	5.03	0.80	0.79	0.79
655536	5879531	Cabin	C289	19.93	7.18	5.03	0.80	0.79	0.79
655510	5879565	Cabin	C290	19.89	7.17	5.02	0.80	0.79	0.79
655522	5879635	Cabin	C291	19.76	7.14	5.02	0.80	0.79	0.79
655470	5879667	Cabin	C292	19.73	7.15	5.02	0.80	0.79	0.79
655759	5879806	Cabin	C293	19.33	7.03	5.02	0.80	0.79	0.79
655849	5879887	Cabin	C294	19.14	6.98	5.01	0.80	0.79	0.79
655904	5879874	Cabin	C295	19.13	6.97	5.01	0.80	0.79	0.79

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
655920	5879833	Cabin	C296	19.19	6.98	5.01	0.80	0.79	0.79
655937	5879788	Cabin	C297	19.26	6.99	5.01	0.80	0.79	0.79
655959	5879743	Cabin	C298	19.32	6.99	5.02	0.80	0.79	0.79
655981	5879336	Cabin	C299	19.98	7.11	5.03	0.80	0.79	0.79
656134	5879093	Cabin	C300	20.24	7.14	5.03	0.80	0.79	0.79
656122	5879037	Cabin	C301	20.33	7.16	5.03	0.80	0.79	0.79
656200	5878850	Cabin	C302	20.54	7.25	5.04	0.80	0.79	0.79
656222	5878811	Cabin	C303	20.57	7.27	5.04	0.80	0.79	0.79
656264	5878773	Cabin	C304	20.58	7.30	5.04	0.80	0.79	0.79
656283	5878750	Cabin	C305	20.60	7.31	5.04	0.80	0.79	0.79
656569	5878718	Cabin	C306	20.37	7.34	5.04	0.80	0.79	0.79
656610	5878724	Cabin	C307	20.32	7.33	5.04	0.80	0.79	0.79
656672	5878658	Cabin	C308	20.34	7.37	5.04	0.80	0.79	0.79
656727	5878687	Cabin	C309	20.25	7.35	5.04	0.80	0.79	0.79
657116	5878638	Cabin	C310	19.88	7.37	5.03	0.80	0.79	0.79
657218	5878747	Cabin	C311	19.64	7.31	5.03	0.80	0.79	0.79
656827	5878816	Cabin	C312	19.98	7.29	5.03	0.80	0.79	0.79
656811	5878856	Cabin	C313	19.95	7.27	5.03	0.80	0.79	0.79
656761	5878872	Cabin	C314	19.98	7.26	5.03	0.80	0.79	0.79
656749	5878923	Cabin	C315	19.92	7.24	5.03	0.80	0.79	0.79
656727	5878962	Cabin	C316	19.89	7.22	5.03	0.80	0.79	0.79
656706	5879002	Cabin	C317	19.86	7.20	5.03	0.80	0.79	0.79
656675	5879036	Cabin	C318	19.84	7.18	5.03	0.80	0.79	0.79
656652	5879085	Cabin	C319	19.80	7.15	5.03	0.80	0.79	0.79
656636	5879131	Cabin	C320	19.75	7.13	5.03	0.80	0.79	0.79
656387	5879799	Cabin	C321	18.94	6.86	5.01	0.80	0.79	0.79
656370	5879851	Cabin	C322	18.87	6.85	5.01	0.80	0.79	0.79
656353	5879896	Cabin	C323	18.80	6.84	5.01	0.80	0.79	0.79
653229	5878711	Cabin	C324	21.91	8.05	5.07	0.80	0.79	0.79
659194	5877695	Cabin	C325	17.73	7.41	5.03	0.80	0.79	0.79
659742	5879642	Cabin	C326	15.60	6.60	4.98	0.80	0.79	0.79
659782	5879684	Cabin	C327	15.51	6.57	4.98	0.80	0.79	0.79
659872	5879695	Cabin	C328	15.39	6.55	4.98	0.80	0.79	0.79
660349	5879906	Cabin	C329	14.61	6.37	4.97	0.80	0.79	0.79
660518	5879947	Cabin	C330	14.37	6.32	4.96	0.79	0.79	0.79
661421	5879718	Cabin	C331	13.42	6.17	4.96	0.79	0.79	0.79
661493	5879729	Cabin	C332	13.33	6.15	4.96	0.79	0.79	0.79
646105	5852102	Cabin	C333	**104.26**	38.03	6.82	0.90	0.83	0.79
647139	5852170	Cabin	C334	**96.32**	35.26	6.72	0.88	0.82	0.79
643788	5855912	Cabin	C335	**148.80**	33.33	7.58	0.94	0.82	0.79
641867	5855100	Cabin	C336	**209.24**	70.21	10.15	1.04	0.88	0.79
642951	5852301	Cabin	C337	**142.05**	55.65	7.69	0.94	0.85	0.79
640185	5848135	Cabin	C338	**104.85**	38.72	7.26	0.91	0.83	0.79
643735	5844087	Cabin	C339	69.81	26.72	5.96	0.86	0.81	0.79
643567	5839358	Cabin	C340	51.31	17.58	5.58	0.84	0.80	0.79
634702	5859483	Cabin	C341	**257.18**	63.36	8.73	1.10	0.86	0.79
634666	5859995	Cabin	C342	**225.16**	55.19	8.16	1.05	0.85	0.79
634659	5860951	Cabin	C343	**196.26**	49.79	7.55	0.99	0.84	0.79
632662	5861641	Cabin	C344	**169.01**	54.16	7.92	0.97	0.84	0.79
632659	5861856	Cabin	C345	**163.73**	52.58	7.78	0.96	0.84	0.79
633647	5862664	Cabin	C346	**166.03**	41.92	7.15	0.93	0.83	0.79
634888	5860864	Cabin	C347	**194.45**	53.47	7.66	0.99	0.84	0.79
634890	5860888	Cabin	C348	**193.49**	53.33	7.66	0.99	0.84	0.79
635091	5860937	Cabin	C349	**184.66**	55.07	7.73	0.98	0.85	0.79
635065	5860944	Cabin	C350	**185.50**	54.84	7.72	0.98	0.85	0.79
635052	5860976	Cabin	C351	**185.44**	54.66	7.72	0.98	0.85	0.79
634970	5860936	Cabin	C352	**190.43**	54.39	7.71	0.99	0.85	0.79
635023	5861008	Cabin	C353	**186.13**	54.42	7.72	0.98	0.85	0.79
634957	5861081	Cabin	C354	**187.03**	53.64	7.70	0.98	0.84	0.79
634815	5861127	Cabin	C355	**189.17**	51.66	7.61	0.99	0.84	0.79
635036	5861316	Cabin	C356	**182.04**	54.50	7.83	0.98	0.85	0.79
635162	5861326	Cabin	C357	**180.07**	56.21	7.94	0.98	0.85	0.79
634845	5861354	Cabin	C358	**184.42**	51.88	7.68	0.98	0.84	0.79
634799	5861381	Cabin	C359	**184.37**	51.20	7.65	0.98	0.84	0.79

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
634807	5861446	Cabin	C360	**183.39**	51.30	7.68	0.98	0.84	0.79
634799	5861486	Cabin	C361	**182.97**	51.19	7.69	0.98	0.84	0.79
634775	5861537	Cabin	C362	**181.94**	50.70	7.68	0.98	0.84	0.79
634754	5861592	Cabin	C363	**181.09**	50.32	7.67	0.98	0.84	0.79
634742	5861622	Cabin	C364	**180.40**	50.06	7.67	0.98	0.84	0.79
634700	5861717	Cabin	C365	**178.20**	49.19	7.65	0.97	0.84	0.79
634648	5861759	Cabin	C366	**177.23**	48.41	7.61	0.97	0.84	0.79
634612	5861830	Cabin	C367	**175.21**	47.69	7.59	0.97	0.84	0.79
634602	5861867	Cabin	C368	**174.14**	47.41	7.59	0.97	0.84	0.79
634794	5861748	Cabin	C369	**177.37**	50.21	7.73	0.97	0.84	0.79
634894	5861777	Cabin	C370	**174.59**	50.72	7.77	0.97	0.84	0.79
634797	5861656	Cabin	C371	**179.64**	50.69	7.73	0.98	0.84	0.79
634842	5861619	Cabin	C372	**180.61**	51.50	7.77	0.98	0.84	0.79
634856	5861562	Cabin	C373	**181.65**	51.89	7.77	0.98	0.84	0.79
634874	5861521	Cabin	C374	**181.87**	52.15	7.77	0.98	0.84	0.79
634872	5861484	Cabin	C375	**182.65**	52.25	7.76	0.98	0.84	0.79
634889	5861408	Cabin	C376	**182.72**	52.33	7.73	0.98	0.84	0.79
634927	5861378	Cabin	C377	**182.83**	52.93	7.76	0.98	0.84	0.79
634931	5861326	Cabin	C378	**183.50**	53.03	7.74	0.98	0.84	0.79
635001	5861307	Cabin	C379	**182.69**	54.01	7.80	0.98	0.84	0.79
635178	5861389	Cabin	C380	**179.11**	56.23	7.96	0.98	0.85	0.79
635129	5861415	Cabin	C381	**179.14**	55.38	7.92	0.98	0.85	0.79
635078	5861447	Cabin	C382	**179.03**	54.48	7.87	0.98	0.85	0.79
635041	5861481	Cabin	C383	**178.72**	53.80	7.84	0.98	0.84	0.79
635007	5861513	Cabin	C384	**178.92**	53.37	7.84	0.98	0.84	0.79
634975	5861552	Cabin	C385	**178.36**	52.74	7.81	0.98	0.84	0.79
634966	5861604	Cabin	C386	**177.83**	52.51	7.82	0.98	0.84	0.79
634965	5861650	Cabin	C387	**176.76**	52.20	7.82	0.97	0.84	0.79
634933	5861729	Cabin	C388	**175.46**	51.43	7.80	0.97	0.84	0.79
634720	5861903	Cabin	C389	**172.45**	48.30	7.66	0.97	0.84	0.79
634674	5861939	Cabin	C390	**171.96**	47.75	7.64	0.97	0.84	0.79
634633	5861947	Cabin	C391	**171.94**	47.34	7.62	0.97	0.84	0.79
631918	5864061	Cabin	C392	**115.06**	41.52	6.78	0.92	0.83	0.79
631635	5864245	Cabin	C393	**112.97**	41.21	6.67	0.92	0.83	0.79
631596	5864310	Cabin	C394	**112.70**	40.99	6.66	0.91	0.83	0.79
631426	5864364	Cabin	C395	**112.18**	40.99	6.61	0.91	0.83	0.79
631376	5864401	Cabin	C396	**111.85**	40.85	6.59	0.91	0.83	0.79
631353	5864438	Cabin	C397	**111.42**	40.64	6.58	0.91	0.83	0.79
631356	5864521	Cabin	C398	**110.13**	40.02	6.56	0.91	0.83	0.79
631202	5864478	Cabin	C399	**111.37**	40.60	6.54	0.91	0.83	0.79
631123	5864530	Cabin	C400	**110.42**	40.20	6.51	0.91	0.83	0.79
631228	5864629	Cabin	C401	**108.89**	39.48	6.51	0.91	0.83	0.79
630947	5864638	Cabin	C402	**109.17**	39.50	6.45	0.91	0.83	0.79
630884	5864669	Cabin	C403	**108.43**	39.17	6.42	0.91	0.83	0.79
630852	5864739	Cabin	C404	**107.50**	38.75	6.40	0.91	0.83	0.79
630795	5864783	Cabin	C405	**106.75**	38.40	6.38	0.91	0.83	0.79
630714	5864851	Cabin	C406	**105.50**	37.83	6.34	0.91	0.83	0.79
630606	5864913	Cabin	C407	**103.90**	37.12	6.30	0.90	0.82	0.79
630537	5864985	Cabin	C408	**103.07**	36.62	6.27	0.90	0.82	0.79
630525	5865056	Cabin	C409	**102.59**	36.29	6.26	0.90	0.82	0.79
630640	5865177	Cabin	C410	**102.38**	35.84	6.27	0.90	0.82	0.79
630567	5865763	Cabin	C411	**97.36**	32.73	6.16	0.89	0.82	0.79
631282	5865426	Cabin	C412	**101.57**	33.61	6.32	0.90	0.82	0.79
632004	5865578	Cabin	C413	**98.08**	30.04	6.31	0.89	0.82	0.79
632080	5865528	Cabin	C414	**98.27**	30.30	6.33	0.89	0.82	0.79
632587	5865628	Cabin	C415	**94.21**	29.32	6.25	0.89	0.81	0.79
632732	5866318	Cabin	C416	**84.66**	25.39	6.02	0.88	0.81	0.79
632922	5866042	Cabin	C417	**86.96**	26.35	6.08	0.88	0.81	0.79
632958	5866077	Cabin	C418	**86.29**	26.08	6.07	0.88	0.81	0.79
633002	5866062	Cabin	C419	**86.20**	26.06	6.07	0.88	0.81	0.79
633121	5866206	Cabin	C420	**83.67**	25.06	6.02	0.88	0.81	0.79
633171	5866177	Cabin	C421	**83.72**	25.09	6.03	0.88	0.81	0.79
633224	5866191	Cabin	C422	**83.23**	24.90	6.02	0.87	0.81	0.79
633281	5866125	Cabin	C423	**83.74**	25.11	6.04	0.88	0.81	0.79

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
633337	5866101	Cabin	C424	**83.72**	25.11	6.04	0.88	0.81	0.79
633366	5866083	Cabin	C425	**84.26**	25.13	6.04	0.88	0.81	0.79
633424	5866069	Cabin	C426	**85.33**	25.08	6.04	0.88	0.81	0.79
633441	5866043	Cabin	C427	**86.08**	25.18	6.05	0.88	0.81	0.79
633416	5866144	Cabin	C428	**83.76**	24.74	6.02	0.87	0.81	0.79
633382	5866155	Cabin	C429	**83.07**	24.75	6.02	0.87	0.81	0.79
633337	5866176	Cabin	C430	**82.78**	24.74	6.02	0.87	0.81	0.79
633263	5866223	Cabin	C431	**82.62**	24.67	6.01	0.87	0.81	0.79
633042	5864004	Cabin	C432	**124.35**	37.97	6.84	0.91	0.82	0.79
635709	5867706	Cabin	C433	77.53	18.14	5.79	0.85	0.80	0.79
625388	5863092	Cabin	C434	69.21	16.66	5.53	0.86	0.80	0.79
625920	5861156	Cabin	C435	**88.80**	21.69	5.67	0.89	0.80	0.79
625442	5861111	Cabin	C436	**95.23**	23.32	5.65	0.89	0.80	0.79
625549	5860833	Cabin	C437	**101.11**	24.99	5.68	0.90	0.80	0.79
625534	5860895	Cabin	C438	**99.73**	24.60	5.67	0.90	0.80	0.79
625503	5860935	Cabin	C439	**99.05**	24.39	5.67	0.89	0.80	0.79
625491	5860984	Cabin	C440	**97.92**	24.07	5.66	0.89	0.80	0.79
625463	5861044	Cabin	C441	**96.72**	23.73	5.65	0.89	0.80	0.79
627494	5859339	Cabin	C442	**111.63**	35.05	6.09	0.90	0.82	0.79
627568	5859552	Cabin	C443	**104.52**	32.03	6.09	0.90	0.81	0.79
627722	5859592	Cabin	C444	**108.38**	31.29	6.14	0.90	0.81	0.79
627868	5860070	Cabin	C445	**118.69**	25.78	6.15	0.92	0.81	0.79
627927	5860110	Cabin	C446	**120.41**	26.87	6.17	0.92	0.81	0.79
627972	5860154	Cabin	C447	**121.56**	27.69	6.19	0.92	0.81	0.79
628037	5860189	Cabin	C448	**123.24**	28.80	6.21	0.92	0.81	0.79
624767	5861052	Cabin	C449	**101.03**	24.96	5.64	0.89	0.81	0.79
636109	5858269	Cabin	C450	**310.79**	98.18	10.98	1.16	0.91	0.79
636117	5858111	Cabin	C451	**329.52**	101.27	11.17	1.18	0.91	0.79
636305	5857911	Cabin	C452	**368.20**	130.79	12.09	1.22	0.94	0.79
623261	5854417	Cabin	C453	77.60	31.18	5.72	0.87	0.82	0.79
622652	5855438	Cabin	C454	76.30	29.56	5.65	0.87	0.81	0.79
622708	5855457	Cabin	C455	77.06	29.83	5.65	0.87	0.81	0.79
624826	5857667	Cabin	C456	**130.94**	37.50	5.97	0.93	0.82	0.79
634870	5861276	Cabin	C457	**185.23**	52.24	7.68	0.98	0.84	0.79
638207	5859662	Cabin	C458	**258.03**	75.59	10.21	1.10	0.87	0.79
640974	5858285	Cabin	C459	**277.62**	68.56	9.82	1.06	0.86	0.79
641865	5856903	Cabin	C460	**228.64**	59.62	9.99	1.03	0.84	0.79
635118	5851125	Cabin	C461	**167.17**	52.18	9.43	0.95	0.84	0.79
646196	5852986	Cabin	C462	**106.38**	36.93	6.93	0.89	0.82	0.79
625475	5857021	Cabin (Quebec)	C463	**178.13**	47.61	6.19	0.98	0.84	0.79
626098	5856799	Cabin (Quebec)	C464	**224.80**	57.77	6.51	1.02	0.85	0.79
627564	5858039	Cabin (Quebec)	C465	**194.32**	71.41	6.72	1.00	0.86	0.79
629357	5857727	Cabin (Quebec)	C466	**231.28**	98.70	8.03	1.06	0.90	0.79
630419	5858921	Cabin (Quebec)	C467	**316.05**	85.17	9.20	1.15	0.87	0.79
626642	5855576	Cabin (Quebec)	C468	**294.55**	80.81	7.30	1.10	0.87	0.79
630232	5858750	Cabin (Quebec)	C469	**310.12**	80.01	9.01	1.12	0.86	0.79
623764	5852692	Cabin (Quebec)	C470	**85.92**	28.07	5.82	0.88	0.81	0.79
623459	5850433	Cabin (Quebec)	C471	**88.73**	25.86	5.60	0.88	0.81	0.79
623460	5850000	Cabin (Quebec)	C472	**87.03**	24.23	5.60	0.88	0.81	0.79
624604	5850547	Cabin (Quebec)	C473	**113.03**	29.85	5.84	0.90	0.81	0.79
624617	5847632	Cabin (Quebec)	C474	**85.37**	32.20	6.02	0.88	0.82	0.79
624830	5847971	Cabin (Quebec)	C475	**88.25**	33.06	6.07	0.88	0.82	0.79
625323	5848229	Cabin (Quebec)	C476	**96.65**	36.02	6.24	0.89	0.82	0.79
625741	5848075	Cabin (Quebec)	C477	**103.84**	38.96	6.42	0.90	0.82	0.79
625759	5847941	Cabin (Quebec)	C478	**103.71**	39.08	6.42	0.90	0.82	0.79
625815	5847804	Cabin (Quebec)	C479	**104.02**	39.41	6.44	0.90	0.82	0.79
626223	5849126	Cabin (Quebec)	C480	**118.80**	42.14	6.62	0.91	0.83	0.79
625431	5849151	Cabin (Quebec)	C481	**99.50**	35.36	6.22	0.89	0.82	0.79
626474	5847197	Cabin (Quebec)	C482	**110.13**	41.78	6.55	0.90	0.83	0.79
626396	5845965	Cabin (Quebec)	C483	**105.52**	38.62	6.30	0.89	0.82	0.79
626683	5845314	Cabin (Quebec)	C484	**102.21**	37.08	6.19	0.89	0.82	0.79
626999	5845577	Cabin (Quebec)	C485	**103.19**	37.91	6.24	0.89	0.82	0.79
627003	5846179	Cabin (Quebec)	C486	**107.37**	39.85	6.36	0.90	0.82	0.79
626961	5846463	Cabin (Quebec)	C487	**109.24**	40.74	6.42	0.90	0.83	0.79

Table 2-3: Air Quality Screening for Nitrogen Dioxide (NO_2) and Sulfur Dioxide (SO_2)

Easting	Northing	Receptor Type	HHRA ID	1 hr NO2 (ug/m^3)	24 hr NO2 (ug/m^3)	Annual NO2 (ug/m^3)	1 hr SO2 (ug/m^3)	24 hr SO2 (ug/m^3)	Annual SO2 (ug/m^3)
				Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)	Maximum (Project + Base Case)
			Screening Criteria (µg/m^3)	79	NV	23	170	NV	10
627273	5846354	Cabin (Quebec)	C488	**107.75**	40.48	6.40	0.90	0.83	0.79
627718	5845172	Cabin (Quebec)	C489	**94.49**	35.98	6.15	0.88	0.82	0.79
628038	5844373	Cabin (Quebec)	C490	**83.71**	33.15	6.04	0.87	0.82	0.79
628284	5848046	Cabin (Quebec)	C491	**125.71**	47.08	6.83	0.92	0.83	0.79
628253	5848298	Cabin (Quebec)	C492	**129.80**	48.48	6.93	0.93	0.83	0.79
628223	5848529	Cabin (Quebec)	C493	**133.50**	49.68	7.01	0.93	0.84	0.79
628578	5846400	Cabin (Quebec)	C494	**99.16**	39.50	6.40	0.90	0.82	0.79
629041	5844898	Cabin (Quebec)	C495	**84.42**	34.57	6.18	0.87	0.82	0.79
629002	5847706	Cabin (Quebec)	C496	**117.37**	44.18	6.68	0.92	0.83	0.79
628885	5847934	Cabin (Quebec)	C497	**121.27**	45.52	6.75	0.92	0.83	0.79
629224	5848000	Cabin (Quebec)	C498	**120.81**	45.63	6.79	0.92	0.83	0.79
629015	5847203	Cabin (Quebec)	C499	**109.67**	42.42	6.58	0.91	0.83	0.79
629458	5847746	Cabin (Quebec)	C500	**115.33**	44.88	6.75	0.92	0.83	0.79
629868	5847537	Cabin (Quebec)	C501	**108.54**	45.70	6.77	0.91	0.83	0.79
629643	5846372	Cabin (Quebec)	C502	**93.37**	40.12	6.47	0.89	0.83	0.79
631620	5848435	Cabin (Quebec)	C503	**172.50**	62.77	7.66	0.97	0.85	0.79
631326	5847777	Cabin (Quebec)	C504	**150.01**	56.54	7.26	0.95	0.84	0.79
631880	5848045	Cabin (Quebec)	C505	**153.68**	57.76	7.48	0.95	0.85	0.79
631823	5847529	Cabin (Quebec)	C506	**135.99**	52.79	7.21	0.93	0.84	0.79
631882	5847345	Cabin (Quebec)	C507	**127.58**	50.57	7.12	0.92	0.84	0.79
632025	5846766	Cabin (Quebec)	C508	**103.16**	43.77	6.88	0.90	0.83	0.79
630856	5847060	Cabin (Quebec)	C509	**122.07**	50.16	6.90	0.92	0.84	0.79
630937	5846640	Cabin (Quebec)	C510	**111.65**	47.35	6.79	0.91	0.83	0.79
631031	5846241	Cabin (Quebec)	C511	**98.63**	44.28	6.67	0.89	0.83	0.79
631246	5846057	Cabin (Quebec)	C512	**92.60**	42.43	6.63	0.88	0.83	0.79
631149	5846104	Cabin (Quebec)	C513	**94.33**	43.04	6.64	0.89	0.83	0.79
630186	5845857	Cabin (Quebec)	C514	**82.00**	40.36	6.48	0.88	0.83	0.79
630521	5844827	Cabin (Quebec)	C515	76.17	35.58	6.30	0.86	0.82	0.79
630500	5845041	Cabin (Quebec)	C516	76.36	36.65	6.34	0.86	0.82	0.79
631014	5845317	Cabin (Quebec)	C517	75.33	37.56	6.43	0.87	0.82	0.79
631354	5845361	Cabin (Quebec)	C518	78.21	36.63	6.45	0.87	0.82	0.79
632084	5844943	Cabin (Quebec)	C519	78.50	28.87	6.34	0.87	0.81	0.79
632227	5845440	Cabin (Quebec)	C520	**82.20**	30.59	6.45	0.87	0.82	0.79
631938	5845809	Cabin (Quebec)	C521	**84.92**	36.21	6.56	0.87	0.82	0.79
631611	5845632	Cabin (Quebec)	C522	**81.86**	37.23	6.51	0.87	0.82	0.79
631655	5845664	Cabin (Quebec)	C523	**82.37**	37.20	6.52	0.87	0.82	0.79
628692	5842475	Cabin (Quebec)	C524	75.10	27.70	5.87	0.85	0.81	0.79
628547	5842771	Cabin (Quebec)	C525	76.15	28.43	5.89	0.85	0.81	0.79
628397	5843141	Cabin (Quebec)	C526	77.64	29.47	5.92	0.86	0.81	0.79
627634	5843239	Cabin (Quebec)	C527	78.82	30.39	5.90	0.87	0.81	0.79
628194	5841854	Cabin (Quebec)	C528	71.12	26.63	5.80	0.85	0.81	0.79

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
			Maximum	4.2	1.7	0.1
			Maximum Location	C11	LU12	LU12
635960	5857471	Previous Receptors (Alderon 2012)	L1	3.19	1.03	0.06
641590	5856650	Previous Receptors (Alderon 2012)	L2	1.74	0.49	0.05
643605	5861877	Closest Residences	R1	0.45	0.12	0.01
639817	5866611	Closest Residences	R2	0.44	0.10	0.01
629503	5851281	Closest Residences	R3	0.70	0.31	0.02
643660	5863077	Schools	S1	0.39	0.10	0.01
640302	5867360	Schools	S2	0.40	0.10	0.01
628698	5851350	Schools	S3/H2	0.74	0.27	0.02
638645	5868619	Hospitals	H1	0.29	0.07	0.01
641084	5860083	Land User	LU1	1.20	0.41	0.03
640822	5853090	Land User	LU2	1.56	0.49	0.03
644385	5853041	Land User	LU3	0.73	0.28	0.02
634182	5862441	Land User	LU4	0.67	0.28	0.02
633008	5862216	Land User	LU5	0.61	0.21	0.01
638099	5858559	Land User	LU6	2.77	0.63	0.07
637075	5847770	Land User	LU7	0.51	0.14	0.01
640649	5848093	Land User	LU8	0.60	0.21	0.02
643498	5844896	Land User	LU9	0.37	0.14	0.01
642596	5841626	Land User	LU10	0.27	0.08	0.01
636075	5858014	Land User	LU11	2.67	0.88	0.05
631162	5855850	Land User	LU12	3.29	1.65	**0.11**
631662	5848350	Land User	LU13	0.66	0.26	0.01
632162	5845850	Land User	LU14	0.33	0.15	0.01
635730	5849661	Cabin	C1	0.54	0.22	0.02
636577	5858531	Cabin	C2	2.43	0.83	0.06
636140	5858010	Cabin	C3	2.77	0.91	0.05
636150	5857871	Cabin	C4	2.85	1.01	0.06
636111	5857723	Cabin	C5	2.97	1.08	0.06
636065	5857542	Cabin	C6	3.29	1.12	0.06
636018	5857320	Cabin	C7	3.17	1.08	0.07
636115	5857199	Cabin	C8	3.55	1.22	**0.07**
636071	5857083	Cabin	C9	3.71	1.16	**0.08**
636105	5856822	Cabin	C10	4.18	1.08	**0.08**
636098	5856774	Cabin	C11	4.19	1.11	**0.09**
636907	5856913	Cabin	C12 (MAX)	3.78	1.54	**0.10**
637468	5857501	Cabin	C13	2.78	0.84	**0.08**
637586	5857770	Cabin	C14	3.12	0.92	**0.08**
637560	5858030	Cabin	C15	2.24	0.87	0.07
637559	5858098	Cabin	C16	2.20	0.89	0.07
637382	5858387	Cabin	C17	2.33	0.88	0.06
636439	5858885	Cabin	C18	2.15	0.77	0.05
636532	5858958	Cabin	C19	2.11	0.79	0.05
636641	5859177	Cabin	C20	2.12	0.80	0.05
636587	5859379	Cabin	C21	2.01	0.76	0.05
636606	5859083	Cabin	C22	2.14	0.80	0.05
636333	5859399	Cabin	C23	1.82	0.67	0.04
636210	5859591	Cabin	C24	1.64	0.62	0.03
637527	5858534	Cabin	C25	2.18	0.81	0.06
638188	5859443	Cabin	C26	1.76	0.52	0.05
638031	5859903	Cabin	C27	1.68	0.48	0.04
638118	5860165	Cabin	C28	1.64	0.43	0.04
638095	5860245	Cabin	C29	1.63	0.42	0.04
635722	5860584	Cabin	C30	1.15	0.46	0.03
635612	5860422	Cabin	C31	0.98	0.43	0.02
635465	5860366	Cabin	C32	0.88	0.39	0.02
635190	5860556	Cabin	C33	0.78	0.35	0.02
635188	5860635	Cabin	C34	0.79	0.35	0.02
635168	5860785	Cabin	C35	0.82	0.35	0.02
635180	5860828	Cabin	C36	0.83	0.35	0.02
635148	5860858	Cabin	C37	0.83	0.35	0.02
640778	5857817	Cabin	C38	2.46	0.90	0.06
640792	5857910	Cabin	C39	2.47	0.79	0.06
641137	5857913	Cabin	C40	2.17	0.73	0.05

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
641364	5857725	Cabin	C41	2.20	0.80	0.05
641817	5857027	Cabin	C42	1.83	0.47	0.05
641845	5856814	Cabin	C43	1.73	0.45	0.05
641912	5857277	Cabin	C44	1.70	0.54	0.05
641840	5857280	Cabin	C45	1.72	0.56	0.05
641870	5857362	Cabin	C46	1.70	0.59	0.05
641637	5857345	Cabin	C47	1.79	0.63	0.05
641560	5857425	Cabin	C48	1.79	0.69	0.05
641454	5857455	Cabin	C49	1.80	0.73	0.05
641550	5857525	Cabin	C50	1.77	0.74	0.05
641466	5857605	Cabin	C51	1.98	0.78	0.05
643367	5857533	Cabin	C52	1.24	0.43	0.03
641285	5858131	Cabin	C53	1.94	0.59	0.05
641270	5858280	Cabin	C54	1.90	0.56	0.04
645508	5854970	Cabin	C55	0.56	0.15	0.02
645337	5854863	Cabin	C56	0.57	0.18	0.02
645280	5854855	Cabin	C57	0.57	0.18	0.02
644937	5855135	Cabin	C58	0.59	0.17	0.02
644879	5855382	Cabin	C59	0.62	0.14	0.02
644973	5855439	Cabin	C60	0.64	0.14	0.02
645128	5855811	Cabin	C61	0.70	0.15	0.01
645033	5855931	Cabin	C62	0.74	0.16	0.02
645036	5856103	Cabin	C63	0.75	0.17	0.02
645180	5855879	Cabin	C64	0.71	0.15	0.01
645330	5855813	Cabin	C65	0.70	0.15	0.01
645506	5855706	Cabin	C66	0.70	0.15	0.01
645632	5855645	Cabin	C67	0.71	0.15	0.01
645590	5855519	Cabin	C68	0.67	0.15	0.01
645598	5855459	Cabin	C69	0.67	0.15	0.01
645662	5855286	Cabin	C70	0.61	0.14	0.01
645835	5855153	Cabin	C71	0.57	0.14	0.01
645976	5855021	Cabin	C72	0.55	0.14	0.01
646064	5854763	Cabin	C73	0.55	0.16	0.01
645907	5854390	Cabin	C74	0.56	0.21	0.02
645885	5854242	Cabin	C75	0.58	0.24	0.02
645737	5853966	Cabin	C76	0.54	0.25	0.02
646109	5853232	Cabin	C77	0.52	0.25	0.01
646092	5852876	Cabin	C78	0.53	0.23	0.01
646044	5852660	Cabin	C79	0.54	0.23	0.01
646428	5852634	Cabin	C80	0.51	0.22	0.01
646459	5852650	Cabin	C81	0.51	0.22	0.01
647491	5856467	Cabin	C82	0.53	0.15	0.01
647943	5857121	Cabin	C83	0.48	0.15	0.01
650541	5853616	Cabin	C84	0.34	0.09	0.01
649585	5855076	Cabin	C85	0.41	0.08	0.01
649478	5856416	Cabin	C86	0.43	0.11	0.01
647046	5860524	Cabin	C87	0.46	0.13	0.01
649298	5858934	Cabin	C88	0.34	0.12	0.01
649221	5858590	Cabin	C89	0.34	0.13	0.01
655939	5864862	Cabin	C90	0.15	0.04	0.00
653216	5864965	Cabin	C91	0.19	0.05	0.00
650592	5866521	Cabin	C92	0.19	0.05	0.00
654383	5868124	Cabin	C93	0.14	0.04	0.00
652330	5866689	Cabin	C94	0.16	0.05	0.00
652553	5866833	Cabin	C95	0.16	0.05	0.00
651537	5866940	Cabin	C96	0.17	0.05	0.00
651680	5866973	Cabin	C97	0.17	0.05	0.00
652221	5867025	Cabin	C98	0.16	0.05	0.00
652077	5867051	Cabin	C99	0.16	0.05	0.00
651961	5867112	Cabin	C100	0.16	0.05	0.00
651905	5867245	Cabin	C101	0.17	0.05	0.00
651748	5867033	Cabin	C102	0.17	0.05	0.00
651696	5867089	Cabin	C103	0.17	0.05	0.00
651770	5867105	Cabin	C104	0.17	0.05	0.00
651729	5867176	Cabin	C105	0.17	0.05	0.00
651644	5867146	Cabin	C106	0.17	0.05	0.00

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
651661	5867207	Cabin	C107	0.17	0.05	0.00
651724	5867266	Cabin	C108	0.17	0.05	0.00
651643	5867292	Cabin	C109	0.17	0.05	0.00
651530	5867285	Cabin	C110	0.17	0.05	0.00
651454	5867326	Cabin	C111	0.17	0.05	0.00
651429	5867373	Cabin	C112	0.17	0.05	0.00
651534	5867399	Cabin	C113	0.17	0.05	0.00
651493	5867516	Cabin	C114	0.17	0.05	0.00
651408	5867479	Cabin	C115	0.17	0.05	0.00
651364	5867523	Cabin	C116	0.17	0.05	0.00
651278	5867742	Cabin	C117	0.17	0.05	0.00
651350	5867873	Cabin	C118	0.17	0.05	0.00
644982	5868164	Cabin	C119	0.27	0.07	0.01
645736	5872547	Cabin	C120	0.21	0.05	0.00
647298	5871617	Cabin	C121	0.19	0.05	0.00
647380	5872093	Cabin	C122	0.19	0.04	0.00
647567	5872814	Cabin	C123	0.18	0.04	0.00
648994	5873411	Cabin	C124	0.15	0.04	0.00
648810	5872842	Cabin	C125	0.16	0.04	0.00
649250	5872924	Cabin	C126	0.15	0.04	0.00
649691	5872831	Cabin	C127	0.15	0.04	0.00
649454	5872485	Cabin	C128	0.15	0.04	0.00
648506	5871449	Cabin	C129	0.17	0.04	0.00
648477	5871383	Cabin	C130	0.17	0.04	0.00
648480	5871299	Cabin	C131	0.17	0.04	0.00
649256	5871272	Cabin	C132	0.17	0.04	0.00
649219	5871153	Cabin	C133	0.17	0.04	0.00
649040	5870831	Cabin	C134	0.17	0.04	0.00
648373	5871125	Cabin	C135	0.17	0.04	0.00
648315	5870872	Cabin	C136	0.18	0.04	0.00
647828	5870049	Cabin	C137	0.19	0.05	0.00
647878	5869444	Cabin	C138	0.19	0.05	0.00
648314	5870737	Cabin	C139	0.18	0.04	0.00
648272	5870692	Cabin	C140	0.18	0.04	0.00
648269	5870647	Cabin	C141	0.18	0.04	0.00
648258	5870593	Cabin	C142	0.18	0.04	0.00
648264	5870554	Cabin	C143	0.18	0.04	0.00
648270	5870506	Cabin	C144	0.18	0.04	0.00
648272	5870458	Cabin	C145	0.18	0.04	0.00
648265	5870409	Cabin	C146	0.18	0.04	0.00
648284	5870335	Cabin	C147	0.18	0.04	0.00
648252	5870309	Cabin	C148	0.18	0.04	0.00
649181	5870379	Cabin	C149	0.17	0.04	0.00
648970	5869837	Cabin	C150	0.18	0.04	0.00
648958	5869792	Cabin	C151	0.18	0.04	0.00
648936	5869728	Cabin	C152	0.18	0.04	0.00
648920	5869646	Cabin	C153	0.18	0.04	0.00
648852	5870349	Cabin	C154	0.17	0.04	0.00
648843	5870252	Cabin	C155	0.18	0.04	0.00
648898	5870384	Cabin	C156	0.17	0.04	0.00
648951	5870402	Cabin	C157	0.17	0.04	0.00
649025	5870559	Cabin	C158	0.17	0.04	0.00
648631	5869828	Cabin	C159	0.18	0.04	0.00
648642	5869878	Cabin	C160	0.18	0.04	0.00
648651	5869930	Cabin	C161	0.18	0.04	0.00
648642	5870001	Cabin	C162	0.18	0.04	0.00
648638	5870052	Cabin	C163	0.18	0.04	0.00
648632	5870102	Cabin	C164	0.18	0.04	0.00
648640	5870160	Cabin	C165	0.18	0.04	0.00
648630	5870277	Cabin	C166	0.17	0.04	0.00
648618	5870215	Cabin	C167	0.18	0.04	0.00
648594	5870174	Cabin	C168	0.18	0.04	0.00
648572	5870134	Cabin	C169	0.18	0.04	0.00
648562	5870092	Cabin	C170	0.18	0.04	0.00
648563	5870003	Cabin	C171	0.18	0.04	0.00
648562	5869933	Cabin	C172	0.18	0.04	0.00

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
648542	5869871	Cabin	C173	0.18	0.04	0.00
648509	5869939	Cabin	C174	0.18	0.04	0.00
648495	5869806	Cabin	C175	0.18	0.04	0.00
648497	5869710	Cabin	C176	0.18	0.04	0.00
648450	5869788	Cabin	C177	0.18	0.04	0.00
648394	5869829	Cabin	C178	0.18	0.04	0.00
648333	5869845	Cabin	C179	0.18	0.04	0.00
648183	5869654	Cabin	C180	0.18	0.05	0.00
648163	5869723	Cabin	C181	0.18	0.04	0.00
648128	5869768	Cabin	C182	0.18	0.04	0.00
648100	5869845	Cabin	C183	0.18	0.04	0.00
648110	5869905	Cabin	C184	0.18	0.04	0.00
648153	5869932	Cabin	C185	0.18	0.04	0.00
648059	5869943	Cabin	C186	0.18	0.04	0.00
648034	5869998	Cabin	C187	0.18	0.04	0.00
648094	5870000	Cabin	C188	0.18	0.04	0.00
648089	5870035	Cabin	C189	0.18	0.04	0.00
648087	5870095	Cabin	C190	0.18	0.04	0.00
648099	5870138	Cabin	C191	0.18	0.04	0.00
648165	5870013	Cabin	C192	0.18	0.04	0.00
648175	5870059	Cabin	C193	0.18	0.04	0.00
648198	5870103	Cabin	C194	0.18	0.04	0.00
648206	5870040	Cabin	C195	0.18	0.04	0.00
648201	5869958	Cabin	C196	0.18	0.04	0.00
648259	5870043	Cabin	C197	0.18	0.04	0.00
648249	5869959	Cabin	C198	0.18	0.04	0.00
648277	5869977	Cabin	C199	0.18	0.04	0.00
648280	5869924	Cabin	C200	0.18	0.04	0.00
651945	5870271	Cabin	C201	0.16	0.04	0.00
651677	5870154	Cabin	C202	0.16	0.04	0.00
651358	5870320	Cabin	C203	0.16	0.04	0.00
651367	5870393	Cabin	C204	0.16	0.04	0.00
651356	5870439	Cabin	C205	0.16	0.04	0.00
651157	5870971	Cabin	C206	0.16	0.04	0.00
651172	5870889	Cabin	C207	0.16	0.04	0.00
651287	5870887	Cabin	C208	0.16	0.04	0.00
651278	5870756	Cabin	C209	0.16	0.04	0.00
651334	5870667	Cabin	C210	0.16	0.04	0.00
651541	5870880	Cabin	C211	0.16	0.04	0.00
651555	5870971	Cabin	C212	0.16	0.04	0.00
651664	5872079	Cabin	C213	0.15	0.03	0.00
651168	5872216	Cabin	C214	0.15	0.03	0.00
651309	5872616	Cabin	C215	0.15	0.03	0.00
651406	5872687	Cabin	C216	0.15	0.03	0.00
651702	5872788	Cabin	C217	0.15	0.03	0.00
652123	5872653	Cabin	C218	0.15	0.03	0.00
652137	5872385	Cabin	C219	0.15	0.03	0.00
651902	5872256	Cabin	C220	0.15	0.03	0.00
652139	5871372	Cabin	C221	0.15	0.04	0.00
652202	5871434	Cabin	C222	0.15	0.04	0.00
652479	5871780	Cabin	C223	0.15	0.04	0.00
652688	5871967	Cabin	C224	0.15	0.04	0.00
653634	5871447	Cabin	C225	0.14	0.03	0.00
654237	5871709	Cabin	C226	0.13	0.03	0.00
654126	5871774	Cabin	C227	0.13	0.03	0.00
654058	5871822	Cabin	C228	0.13	0.03	0.00
653897	5872230	Cabin	C229	0.13	0.03	0.00
653958	5872375	Cabin	C230	0.13	0.03	0.00
653813	5872764	Cabin	C231	0.13	0.03	0.00
654316	5873211	Cabin	C232	0.12	0.03	0.00
654464	5873391	Cabin	C233	0.12	0.03	0.00
654568	5873147	Cabin	C234	0.12	0.03	0.00
654435	5873112	Cabin	C235	0.12	0.03	0.00
654502	5873072	Cabin	C236	0.12	0.03	0.00
654560	5873037	Cabin	C237	0.12	0.03	0.00
654417	5873018	Cabin	C238	0.13	0.03	0.00

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
654533	5872976	Cabin	C239	0.12	0.03	0.00
654475	5872843	Cabin	C240	0.13	0.03	0.00
654527	5872824	Cabin	C241	0.12	0.03	0.00
654585	5872884	Cabin	C242	0.12	0.03	0.00
654712	5872759	Cabin	C243	0.12	0.03	0.00
654603	5872652	Cabin	C244	0.12	0.03	0.00
654615	5872495	Cabin	C245	0.12	0.03	0.00
654701	5872347	Cabin	C246	0.12	0.03	0.00
654827	5872301	Cabin	C247	0.12	0.03	0.00
654883	5872208	Cabin	C248	0.12	0.03	0.00
654891	5872150	Cabin	C249	0.12	0.03	0.00
654759	5872177	Cabin	C250	0.12	0.03	0.00
654788	5872127	Cabin	C251	0.12	0.03	0.00
655144	5871118	Cabin	C252	0.12	0.03	0.00
648102	5875979	Cabin	C253	0.13	0.03	0.00
651945	5874721	Cabin	C254	0.12	0.03	0.00
652653	5874100	Cabin	C255	0.13	0.03	0.00
653035	5874384	Cabin	C256	0.12	0.03	0.00
653048	5874439	Cabin	C257	0.12	0.03	0.00
653058	5874488	Cabin	C258	0.12	0.03	0.00
653088	5874541	Cabin	C259	0.12	0.03	0.00
653119	5874586	Cabin	C260	0.12	0.03	0.00
653053	5874685	Cabin	C261	0.12	0.03	0.00
653419	5874771	Cabin	C262	0.12	0.03	0.00
653624	5874867	Cabin	C263	0.12	0.03	0.00
653740	5875312	Cabin	C264	0.11	0.02	0.00
653331	5875587	Cabin	C265	0.11	0.02	0.00
653431	5876074	Cabin	C266	0.10	0.02	0.00
652687	5876590	Cabin	C267	0.10	0.02	0.00
653006	5877664	Cabin	C268	0.09	0.02	0.00
652913	5878002	Cabin	C269	0.08	0.02	0.00
654087	5876771	Cabin	C270	0.09	0.02	0.00
654390	5876812	Cabin	C271	0.09	0.02	0.00
654516	5876861	Cabin	C272	0.09	0.02	0.00
654613	5877129	Cabin	C273	0.09	0.02	0.00
654712	5877345	Cabin	C274	0.09	0.02	0.00
655194	5877509	Cabin	C275	0.08	0.02	0.00
655948	5877716	Cabin	C276	0.08	0.02	0.00
655845	5877809	Cabin	C277	0.08	0.02	0.00
655662	5878268	Cabin	C278	0.07	0.02	0.00
655612	5878362	Cabin	C279	0.07	0.02	0.00
655714	5878551	Cabin	C280	0.07	0.01	0.00
655750	5879082	Cabin	C281	0.07	0.01	0.00
655705	5879176	Cabin	C282	0.07	0.01	0.00
655698	5879229	Cabin	C283	0.07	0.01	0.00
655692	5879276	Cabin	C284	0.07	0.01	0.00
655687	5879312	Cabin	C285	0.07	0.01	0.00
655663	5879335	Cabin	C286	0.07	0.01	0.00
655586	5879390	Cabin	C287	0.07	0.01	0.00
655568	5879451	Cabin	C288	0.07	0.01	0.00
655536	5879531	Cabin	C289	0.07	0.01	0.00
655510	5879565	Cabin	C290	0.07	0.01	0.00
655522	5879635	Cabin	C291	0.07	0.01	0.00
655470	5879667	Cabin	C292	0.07	0.01	0.00
655759	5879806	Cabin	C293	0.06	0.01	0.00
655849	5879887	Cabin	C294	0.06	0.01	0.00
655904	5879874	Cabin	C295	0.06	0.01	0.00
655920	5879833	Cabin	C296	0.06	0.01	0.00
655937	5879788	Cabin	C297	0.06	0.01	0.00
655959	5879743	Cabin	C298	0.06	0.01	0.00
655981	5879336	Cabin	C299	0.07	0.01	0.00
656134	5879093	Cabin	C300	0.07	0.01	0.00
656122	5879037	Cabin	C301	0.07	0.01	0.00
656200	5878850	Cabin	C302	0.07	0.01	0.00
656222	5878811	Cabin	C303	0.07	0.01	0.00
656264	5878773	Cabin	C304	0.07	0.01	0.00

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
656283	5878750	Cabin	C305	0.07	0.01	0.00
656569	5878718	Cabin	C306	0.07	0.01	0.00
656610	5878724	Cabin	C307	0.07	0.01	0.00
656672	5878658	Cabin	C308	0.07	0.02	0.00
656727	5878687	Cabin	C309	0.07	0.02	0.00
657116	5878638	Cabin	C310	0.07	0.02	0.00
657218	5878747	Cabin	C311	0.06	0.01	0.00
656827	5878816	Cabin	C312	0.07	0.01	0.00
656811	5878856	Cabin	C313	0.07	0.01	0.00
656761	5878872	Cabin	C314	0.07	0.01	0.00
656749	5878923	Cabin	C315	0.07	0.01	0.00
656727	5878962	Cabin	C316	0.07	0.01	0.00
656706	5879002	Cabin	C317	0.07	0.01	0.00
656675	5879036	Cabin	C318	0.07	0.01	0.00
656652	5879085	Cabin	C319	0.07	0.01	0.00
656636	5879131	Cabin	C320	0.07	0.01	0.00
656387	5879799	Cabin	C321	0.06	0.01	0.00
656370	5879851	Cabin	C322	0.06	0.01	0.00
656353	5879896	Cabin	C323	0.06	0.01	0.00
653229	5878711	Cabin	C324	0.07	0.02	0.00
659194	5877695	Cabin	C325	0.06	0.02	0.00
659742	5879642	Cabin	C326	0.05	0.01	0.00
659782	5879684	Cabin	C327	0.05	0.01	0.00
659872	5879695	Cabin	C328	0.05	0.01	0.00
660349	5879906	Cabin	C329	0.05	0.01	0.00
660518	5879947	Cabin	C330	0.04	0.01	0.00
661421	5879718	Cabin	C331	0.04	0.01	0.00
661493	5879729	Cabin	C332	0.04	0.01	0.00
646105	5852102	Cabin	C333	0.53	0.22	0.01
647139	5852170	Cabin	C334	0.47	0.21	0.01
643788	5855912	Cabin	C335	0.96	0.20	0.02
641867	5855100	Cabin	C336	1.83	0.63	0.05
642951	5852301	Cabin	C337	0.76	0.29	0.02
640185	5848135	Cabin	C338	0.56	0.22	0.02
643735	5844087	Cabin	C339	0.33	0.12	0.01
643567	5839358	Cabin	C340	0.23	0.06	0.00
634702	5859483	Cabin	C341	1.19	0.32	0.02
634666	5859995	Cabin	C342	0.99	0.30	0.02
634659	5860951	Cabin	C343	0.72	0.29	0.02
632662	5861641	Cabin	C344	0.70	0.22	0.01
632659	5861856	Cabin	C345	0.68	0.22	0.01
633647	5862664	Cabin	C346	0.60	0.24	0.01
634888	5860864	Cabin	C347	0.73	0.32	0.02
634890	5860888	Cabin	C348	0.74	0.32	0.02
635091	5860937	Cabin	C349	0.82	0.34	0.02
635065	5860944	Cabin	C350	0.81	0.34	0.02
635052	5860976	Cabin	C351	0.81	0.34	0.02
634970	5860936	Cabin	C352	0.78	0.33	0.02
635023	5861008	Cabin	C353	0.81	0.34	0.02
634957	5861081	Cabin	C354	0.80	0.33	0.02
634815	5861127	Cabin	C355	0.76	0.31	0.02
635036	5861316	Cabin	C356	0.87	0.34	0.02
635162	5861326	Cabin	C357	0.93	0.36	0.02
634845	5861354	Cabin	C358	0.80	0.32	0.02
634799	5861381	Cabin	C359	0.79	0.31	0.02
634807	5861446	Cabin	C360	0.80	0.31	0.02
634799	5861486	Cabin	C361	0.81	0.31	0.02
634775	5861537	Cabin	C362	0.80	0.31	0.02
634754	5861592	Cabin	C363	0.80	0.31	0.02
634742	5861622	Cabin	C364	0.80	0.31	0.02
634700	5861717	Cabin	C365	0.79	0.31	0.02
634648	5861759	Cabin	C366	0.78	0.30	0.02
634612	5861830	Cabin	C367	0.77	0.30	0.02
634602	5861867	Cabin	C368	0.77	0.31	0.02
634794	5861748	Cabin	C369	0.82	0.33	0.02
634894	5861777	Cabin	C370	0.85	0.35	0.02

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
634797	5861656	Cabin	C371	0.82	0.32	0.02
634842	5861619	Cabin	C372	0.83	0.33	0.02
634856	5861562	Cabin	C373	0.83	0.32	0.02
634874	5861521	Cabin	C374	0.84	0.32	0.02
634872	5861484	Cabin	C375	0.83	0.32	0.02
634889	5861408	Cabin	C376	0.83	0.32	0.02
634927	5861378	Cabin	C377	0.84	0.33	0.02
634931	5861326	Cabin	C378	0.83	0.33	0.02
635001	5861307	Cabin	C379	0.86	0.34	0.02
635178	5861389	Cabin	C380	0.95	0.37	0.02
635129	5861415	Cabin	C381	0.93	0.36	0.02
635078	5861447	Cabin	C382	0.91	0.35	0.02
635041	5861481	Cabin	C383	0.89	0.35	0.02
635007	5861513	Cabin	C384	0.88	0.35	0.02
634975	5861552	Cabin	C385	0.87	0.34	0.02
634966	5861604	Cabin	C386	0.87	0.35	0.02
634965	5861650	Cabin	C387	0.87	0.35	0.02
634933	5861729	Cabin	C388	0.86	0.35	0.02
634720	5861903	Cabin	C389	0.80	0.33	0.02
634674	5861939	Cabin	C390	0.79	0.33	0.02
634633	5861947	Cabin	C391	0.78	0.32	0.02
631918	5864061	Cabin	C392	0.54	0.21	0.01
631635	5864245	Cabin	C393	0.53	0.20	0.01
631596	5864310	Cabin	C394	0.52	0.20	0.01
631426	5864364	Cabin	C395	0.51	0.20	0.01
631376	5864401	Cabin	C396	0.51	0.20	0.01
631353	5864438	Cabin	C397	0.51	0.19	0.01
631356	5864521	Cabin	C398	0.50	0.19	0.01
631202	5864478	Cabin	C399	0.50	0.19	0.01
631123	5864530	Cabin	C400	0.49	0.19	0.01
631228	5864629	Cabin	C401	0.49	0.19	0.01
630947	5864638	Cabin	C402	0.48	0.18	0.01
630884	5864669	Cabin	C403	0.47	0.18	0.01
630852	5864739	Cabin	C404	0.46	0.18	0.01
630795	5864783	Cabin	C405	0.46	0.18	0.01
630714	5864851	Cabin	C406	0.45	0.17	0.01
630606	5864913	Cabin	C407	0.44	0.17	0.01
630537	5864985	Cabin	C408	0.44	0.17	0.01
630525	5865056	Cabin	C409	0.43	0.16	0.01
630640	5865177	Cabin	C410	0.43	0.16	0.01
630567	5865763	Cabin	C411	0.39	0.15	0.01
631282	5865426	Cabin	C412	0.43	0.16	0.01
632004	5865578	Cabin	C413	0.42	0.14	0.01
632080	5865528	Cabin	C414	0.42	0.14	0.01
632587	5865628	Cabin	C415	0.41	0.13	0.01
632732	5866318	Cabin	C416	0.36	0.11	0.01
632922	5866042	Cabin	C417	0.38	0.12	0.01
632958	5866077	Cabin	C418	0.38	0.12	0.01
633002	5866062	Cabin	C419	0.38	0.12	0.01
633121	5866206	Cabin	C420	0.37	0.11	0.01
633171	5866177	Cabin	C421	0.37	0.11	0.01
633224	5866191	Cabin	C422	0.37	0.11	0.01
633281	5866125	Cabin	C423	0.37	0.11	0.01
633337	5866101	Cabin	C424	0.37	0.12	0.01
633366	5866083	Cabin	C425	0.38	0.12	0.01
633424	5866069	Cabin	C426	0.38	0.12	0.01
633441	5866043	Cabin	C427	0.38	0.12	0.01
633416	5866144	Cabin	C428	0.37	0.11	0.01
633382	5866155	Cabin	C429	0.37	0.11	0.01
633337	5866176	Cabin	C430	0.37	0.11	0.01
633263	5866223	Cabin	C431	0.37	0.11	0.01
633042	5864004	Cabin	C432	0.52	0.19	0.01
635709	5867706	Cabin	C433	0.29	0.08	0.01
625388	5863092	Cabin	C434	0.30	0.06	0.00
625920	5861156	Cabin	C435	0.40	0.10	0.00
625442	5861111	Cabin	C436	0.41	0.11	0.00

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
625549	5860833	Cabin	C437	0.43	0.12	0.00
625534	5860895	Cabin	C438	0.42	0.11	0.00
625503	5860935	Cabin	C439	0.42	0.11	0.00
625491	5860984	Cabin	C440	0.42	0.11	0.00
625463	5861044	Cabin	C441	0.41	0.11	0.00
627494	5859339	Cabin	C442	0.52	0.17	0.01
627568	5859552	Cabin	C443	0.47	0.16	0.01
627722	5859592	Cabin	C444	0.46	0.16	0.01
627868	5860070	Cabin	C445	0.50	0.13	0.01
627927	5860110	Cabin	C446	0.51	0.13	0.01
627972	5860154	Cabin	C447	0.52	0.13	0.01
628037	5860189	Cabin	C448	0.52	0.13	0.01
624767	5861052	Cabin	C449	0.41	0.11	0.00
636109	5858269	Cabin	C450	2.49	0.75	0.05
636117	5858111	Cabin	C451	2.67	0.84	0.05
636305	5857911	Cabin	C452	2.93	1.10	0.06
623261	5854417	Cabin	C453	0.35	0.14	0.00
622652	5855438	Cabin	C454	0.31	0.12	0.00
622708	5855457	Cabin	C455	0.31	0.12	0.00
624826	5857667	Cabin	C456	0.62	0.16	0.01
634870	5861276	Cabin	C457	0.80	0.32	0.02
638207	5859662	Cabin	C458	1.78	0.51	0.04
640974	5858285	Cabin	C459	2.04	0.57	0.05
641865	5856903	Cabin	C460	1.79	0.45	0.05
635118	5851125	Cabin	C461	0.78	0.30	0.03
646196	5852986	Cabin	C462	0.52	0.24	0.01
625475	5857021	Cabin (Quebec)	C463	0.76	0.20	0.01
626098	5856799	Cabin (Quebec)	C464	0.92	0.24	0.01
627564	5858039	Cabin (Quebec)	C465	0.80	0.28	0.01
629357	5857727	Cabin (Quebec)	C466	1.13	0.43	0.01
630419	5858921	Cabin (Quebec)	C467	1.42	0.31	0.02
626642	5855576	Cabin (Quebec)	C468	1.17	0.34	0.01
630232	5858750	Cabin (Quebec)	C469	1.26	0.36	0.02
623764	5852692	Cabin (Quebec)	C470	0.37	0.12	0.00
623459	5850433	Cabin (Quebec)	C471	0.36	0.10	0.00
623460	5850000	Cabin (Quebec)	C472	0.35	0.10	0.00
624604	5850547	Cabin (Quebec)	C473	0.45	0.12	0.00
624617	5847632	Cabin (Quebec)	C474	0.33	0.11	0.01
624830	5847971	Cabin (Quebec)	C475	0.34	0.11	0.01
625323	5848229	Cabin (Quebec)	C476	0.37	0.12	0.01
625741	5848075	Cabin (Quebec)	C477	0.40	0.14	0.01
625759	5847941	Cabin (Quebec)	C478	0.39	0.15	0.01
625815	5847804	Cabin (Quebec)	C479	0.39	0.15	0.01
626223	5849126	Cabin (Quebec)	C480	0.44	0.15	0.01
625431	5849151	Cabin (Quebec)	C481	0.40	0.13	0.01
626474	5847197	Cabin (Quebec)	C482	0.41	0.16	0.01
626396	5845965	Cabin (Quebec)	C483	0.37	0.13	0.01
626683	5845314	Cabin (Quebec)	C484	0.36	0.13	0.01
626999	5845577	Cabin (Quebec)	C485	0.37	0.13	0.01
627003	5846179	Cabin (Quebec)	C486	0.39	0.14	0.01
626961	5846463	Cabin (Quebec)	C487	0.39	0.14	0.01
627273	5846354	Cabin (Quebec)	C488	0.39	0.14	0.01
627718	5845172	Cabin (Quebec)	C489	0.36	0.13	0.01
628038	5844373	Cabin (Quebec)	C490	0.32	0.12	0.01
628284	5848046	Cabin (Quebec)	C491	0.45	0.17	0.01
628253	5848298	Cabin (Quebec)	C492	0.47	0.17	0.01
628223	5848529	Cabin (Quebec)	C493	0.48	0.18	0.01
628578	5846400	Cabin (Quebec)	C494	0.38	0.15	0.01
629041	5844898	Cabin (Quebec)	C495	0.31	0.13	0.01
629002	5847706	Cabin (Quebec)	C496	0.42	0.17	0.01
628885	5847934	Cabin (Quebec)	C497	0.43	0.17	0.01
629224	5848000	Cabin (Quebec)	C498	0.43	0.18	0.01
629015	5847203	Cabin (Quebec)	C499	0.39	0.16	0.01
629458	5847746	Cabin (Quebec)	C500	0.41	0.17	0.01
629868	5847537	Cabin (Quebec)	C501	0.40	0.18	0.01
629643	5846372	Cabin (Quebec)	C502	0.34	0.16	0.01

Table 2-4: Air Quality Screening for Diesel Particulate Matter (DPM)

Easting	Northing	Receptor Type	HHRA ID	1 hr DPM (ug/m^3)	24 hr DPM (ug/m^3)	Annual DPM (ug/m^3)
				Maximum	Maximum	Maximum
			Screening Criteria (µg/m3)	10	NV	0.071
631620	5848435	Cabin (Quebec)	C503	0.67	0.27	0.01
631326	5847777	Cabin (Quebec)	C504	0.57	0.23	0.01
631880	5848045	Cabin (Quebec)	C505	0.60	0.25	0.01
631823	5847529	Cabin (Quebec)	C506	0.53	0.23	0.01
631882	5847345	Cabin (Quebec)	C507	0.50	0.22	0.01
632025	5846766	Cabin (Quebec)	C508	0.41	0.19	0.01
630856	5847060	Cabin (Quebec)	C509	0.46	0.20	0.01
630937	5846640	Cabin (Quebec)	C510	0.43	0.19	0.01
631031	5846241	Cabin (Quebec)	C511	0.39	0.18	0.01
631246	5846057	Cabin (Quebec)	C512	0.37	0.18	0.01
631149	5846104	Cabin (Quebec)	C513	0.37	0.18	0.01
630186	5845857	Cabin (Quebec)	C514	0.31	0.16	0.01
630521	5844827	Cabin (Quebec)	C515	0.29	0.15	0.01
630500	5845041	Cabin (Quebec)	C516	0.29	0.15	0.01
631014	5845317	Cabin (Quebec)	C517	0.30	0.16	0.01
631354	5845361	Cabin (Quebec)	C518	0.31	0.16	0.01
632084	5844943	Cabin (Quebec)	C519	0.29	0.13	0.01
632227	5845440	Cabin (Quebec)	C520	0.31	0.14	0.01
631938	5845809	Cabin (Quebec)	C521	0.33	0.16	0.01
631611	5845632	Cabin (Quebec)	C522	0.33	0.16	0.01
631655	5845664	Cabin (Quebec)	C523	0.33	0.16	0.01
628692	5842475	Cabin (Quebec)	C524	0.25	0.10	0.01
628547	5842771	Cabin (Quebec)	C525	0.26	0.11	0.01
628397	5843141	Cabin (Quebec)	C526	0.27	0.11	0.01
627634	5843239	Cabin (Quebec)	C527	0.29	0.11	0.01
628194	5841854	Cabin (Quebec)	C528	0.24	0.10	0.00

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
			Maximum	0.0001	4.6	0.001	0.1	0.0002	0.00003	3.4	0.0002	0.01	0.002	0.01	0.0005	0.01	18.8	0.001	0.00002	0.0003	0.00001	2.4	0.0	0.0	2.1	0.7
			Maximum Location	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12
635960	5857470	L1	12.04	0.00001	0.97329	0.00019	0.01072	0.00004	0.00001	0.70718	0.00004	0.00112	0.00041	0.00265	0.00010	0.00181	3.94710	0.00027	0.00000	0.00006	0.00000	0.49561	0.00057	0.00050	0.44926	0.15428
641590	5856650	L2	10.53	0.00001	0.85127	0.00016	0.00937	0.00003	0.00001	0.61852	0.00003	0.00098	0.00036	0.00232	0.00008	0.00158	3.45224	0.00023	0.00000	0.00005	0.00000	0.43348	0.00050	0.00044	0.39293	0.13494
643605.46	5861877.39	R1	2.12	0.00000	0.17162	0.00003	0.00189	0.00001	0.00000	0.12469	0.00001	0.00020	0.00007	0.00047	0.00002	0.00032	0.69597	0.00005	0.00000	0.00001	0.00000	0.08739	0.00010	0.00009	0.07922	0.02720
639816.84	5866610.87	R2	1.68	0.00000	0.13588	0.00003	0.00150	0.00001	0.00000	0.09873	0.00001	0.00016	0.00006	0.00037	0.00001	0.00025	0.55105	0.00004	0.00000	0.00001	0.00000	0.06919	0.00008	0.00007	0.06272	0.02154
629502.76	5851281.02	R3	5.62	0.00001	0.45403	0.00009	0.00500	0.00002	0.00000	0.32989	0.00002	0.00052	0.00019	0.00124	0.00005	0.00084	1.84127	0.00013	0.00000	0.00003	0.00000	0.23120	0.00027	0.00023	0.20957	0.07197
643659.57	5863076.27	S1	2.01	0.00000	0.16286	0.00003	0.00179	0.00001	0.00000	0.11833	0.00001	0.00019	0.00007	0.00044	0.00002	0.00030	0.66046	0.00004	0.00000	0.00001	0.00000	0.08293	0.00010	0.00008	0.07517	0.02582
640302	5867360.12	S2	1.56	0.00000	0.12573	0.00002	0.00138	0.00001	0.00000	0.09136	0.00000	0.00014	0.00005	0.00034	0.00001	0.00023	0.50991	0.00003	0.00000	0.00001	0.00000	0.06403	0.00007	0.00006	0.05804	0.01993
628698.35	5851349.26	S3/H2	4.82	0.00001	0.38972	0.00007	0.00429	0.00002	0.00000	0.28316	0.00002	0.00045	0.00016	0.00106	0.00004	0.00072	1.58047	0.00011	0.00000	0.00002	0.00000	0.19845	0.00023	0.00020	0.17989	0.06177
638644.9	5868617.98	H1	1.15	0.00000	0.09275	0.00002	0.00102	0.00000	0.00000	0.06739	0.00000	0.00011	0.00004	0.00025	0.00001	0.00017	0.37615	0.00003	0.00000	0.00001	0.00000	0.04723	0.00005	0.00005	0.04281	0.01470
641084.378	5860081.616	LU1	9.72	0.00001	0.78582	0.00015	0.00865	0.00003	0.00001	0.57097	0.00003	0.00090	0.00033	0.00214	0.00008	0.00146	3.18685	0.00022	0.00000	0.00005	0.00000	0.40016	0.00046	0.00040	0.36273	0.12456
640822.0221	5853089.835	LU2	9.21	0.00001	0.74433	0.00014	0.00820	0.00003	0.00001	0.54082	0.00003	0.00086	0.00031	0.00203	0.00007	0.00138	3.01856	0.00021	0.00000	0.00005	0.00000	0.37902	0.00044	0.00038	0.34357	0.11798
644385.4952	5853040.005	LU3	3.84	0.00000	0.31012	0.00006	0.00341	0.00001	0.00000	0.22533	0.00001	0.00036	0.00013	0.00084	0.00003	0.00058	1.25767	0.00009	0.00000	0.00002	0.00000	0.15792	0.00018	0.00016	0.14315	0.04916
634181.7454	5862440.707	LU4	2.80	0.00000	0.22595	0.00004	0.00249	0.00001	0.00000	0.16417	0.00001	0.00026	0.00010	0.00061	0.00002	0.00042	0.91634	0.00006	0.00000	0.00001	0.00000	0.11506	0.00013	0.00012	0.10430	0.03582
633008.4728	5862215.534	LU5	3.91	0.00000	0.31591	0.00006	0.00348	0.00001	0.00000	0.22954	0.00001	0.00036	0.00013	0.00086	0.00003	0.00059	1.28114	0.00009	0.00000	0.00002	0.00000	0.16087	0.00019	0.00016	0.14582	0.05008
638099.3314	5858558.498	LU6	9.99	0.00001	0.80784	0.00015	0.00889	0.00003	0.00001	0.58697	0.00003	0.00093	0.00034	0.00220	0.00008	0.00150	3.27614	0.00022	0.00000	0.00005	0.00000	0.41137	0.00047	0.00042	0.37289	0.12805
637074.6166	5847769.461	LU7	3.35	0.00000	0.27075	0.00005	0.00298	0.00001	0.00000	0.19672	0.00001	0.00031	0.00011	0.00074	0.00003	0.00050	1.09800	0.00007	0.00000	0.00002	0.00000	0.13787	0.00016	0.00014	0.12497	0.04292
640649.1666	5848093.083	LU8	4.06	0.00000	0.32806	0.00006	0.00361	0.00001	0.00000	0.23836	0.00001	0.00038	0.00014	0.00089	0.00003	0.00061	1.33041	0.00009	0.00000	0.00002	0.00000	0.16705	0.00019	0.00017	0.15143	0.05200
643498.0193	5844896.092	LU9	1.69	0.00000	0.13636	0.00003	0.00150	0.00001	0.00000	0.09908	0.00001	0.00016	0.00006	0.00037	0.00001	0.00025	0.55299	0.00004	0.00000	0.00001	0.00000	0.06944	0.00008	0.00007	0.06294	0.02161
642595.8009	5841625.55	LU10	1.09	0.00000	0.08836	0.00002	0.00097	0.00000	0.00000	0.06420	0.00000	0.00010	0.00004	0.00024	0.00001	0.00016	0.35834	0.00002	0.00000	0.00001	0.00000	0.04500	0.00005	0.00005	0.04079	0.01401
636075.4345	5858012.684	LU11	9.57	0.00001	0.77365	0.00015	0.00852	0.00003	0.00001	0.56212	0.00003	0.00089	0.00033	0.00211	0.00008	0.00144	3.13747	0.00021	0.00000	0.00005	0.00000	0.39395	0.00045	0.00040	0.35711	0.12263
631162	5855850	LU12	57.29	0.00006	4.63090	0.00089	0.05099	0.00019	0.00003	3.36475	0.00018	0.00532	0.00195	0.01260	0.00046	0.00859	18.78027	0.00128	0.00002	0.00029	0.00001	2.35813	0.00272	0.00238	2.13756	0.73405
631662	5848350	LU13	3.79	0.00000	0.30650	0.00006	0.00337	0.00001	0.00000	0.22270	0.00001	0.00035	0.00013	0.00083	0.00003	0.00057	1.24299	0.00008	0.00000	0.00002	0.00000	0.15608	0.00018	0.00016	0.14148	0.04858
632162	5845850	LU14	2.11	0.00000	0.17017	0.00003	0.00187	0.00001	0.00000	0.12364	0.00001	0.00020	0.00007	0.00046	0.00002	0.00032	0.69012	0.00005	0.00000	0.00001	0.00000	0.08665	0.00010	0.00009	0.07855	0.02697
635730	5849661	C1	6.30	0.00001	0.50933	0.00010	0.00561	0.00002	0.00000	0.37008	0.00002	0.00059	0.00021	0.00139	0.00005	0.00095	2.06557	0.00014	0.00000	0.00003	0.00000	0.25936	0.00030	0.00026	0.23510	0.08074
636577	5858531	C2	8.89	0.00001	0.71851	0.00014	0.00791	0.00003	0.00001	0.52206	0.00003	0.00083	0.00030	0.00196	0.00007	0.00133	2.91386	0.00020	0.00000	0.00005	0.00000	0.36588	0.00042	0.00037	0.33165	0.11389
636140	5858010	C3	9.46	0.00001	0.76496	0.00015	0.00842	0.00003	0.00001	0.55581	0.00003	0.00088	0.00032	0.00208	0.00008	0.00142	3.10222	0.00021	0.00000	0.00005	0.00000	0.38953	0.00045	0.00039	0.35309	0.12125
636150	5857871	C4	10.02	0.00001	0.80970	0.00015	0.00892	0.00003	0.00001	0.58832	0.00003	0.00093	0.00034	0.00220	0.00008	0.00150	3.28368	0.00022	0.00000	0.00005	0.00000	0.41231	0.00048	0.00042	0.37375	0.12835
636111	5857723	C5	10.65	0.00001	0.86044	0.00016	0.00947	0.00003	0.00001	0.62519	0.00003	0.00099	0.00036	0.00234	0.00009	0.00160	3.48946	0.00024	0.00000	0.00005	0.00000	0.43815	0.00050	0.00044	0.39717	0.13639
636065	5857542	C6	11.36	0.00001	0.91851	0.00018	0.01011	0.00004	0.00001	0.66737	0.00004	0.00106	0.00039	0.00250	0.00009	0.00170	3.72493	0.00025	0.00000	0.00006	0.00000	0.46772	0.00054	0.00047	0.42397	0.14559
636018	5857320	C7	11.96	0.00001	0.96703	0.00018	0.01065	0.00004	0.00001	0.70263	0.00004	0.00111	0.00041	0.00263	0.00010	0.00179	3.92174	0.00027	0.00000	0.00006	0.00000	0.49243	0.00057	0.00050	0.44637	0.15329
636115	5857199	C8	12.49	0.00001	1.00971	0.00019	0.01112	0.00004	0.00001	0.73364	0.00004	0.00116	0.00043	0.00275	0.00010	0.00187	4.09480	0.00028	0.00001	0.00006	0.00000	0.51416	0.00059	0.00052	0.46607	0.16005
636071	5857083	C9	12.92	0.00001	1.04430	0.00020	0.01150	0.00004	0.00001	0.75877	0.00004	0.00120	0.00044	0.00284	0.00010	0.00194	4.23506	0.00029	0.00001	0.00007	0.00000	0.53177	0.00061	0.00054	0.48203	0.16553
636105	5856822	C10	13.55	0.00001	1.09505	0.00021	0.01206	0.00004	0.00001	0.79565	0.00004	0.00126	0.00046	0.00298	0.00011	0.00203	4.44087	0.00030	0.00001	0.00007	0.00000	0.55762	0.00064	0.00056	0.50546	0.17358
636098	5856774	C11	14.19	0.00002	1.14659	0.00022	0.01262	0.00005	0.00001	0.83310	0.00005	0.00132	0.00048	0.00312	0.00011	0.00213	4.64991	0.00032	0.00001	0.00007	0.00000	0.58386	0.00067	0.00059	0.52925	0.18175
636907	5856913	C12 (MAX)	16.92	0.00002	1.36760	0.00026	0.01506	0.00005	0.00001	0.99368	0.00005	0.00157	0.00058	0.00372	0.00014	0.00254	5.54619	0.00038	0.00001	0.00009	0.00000	0.69640	0.00080	0.00070	0.63126	0.21678
637468	5857501	C13	13.00	0.00001	1.05056	0.00020	0.01157	0.00004	0.00001	0.76333	0.00004	0.00121	0.00044	0.00286	0.00010	0.00195	4.26049	0.00029	0.00001	0.00007	0.00000	0.53497	0.00062	0.00054	0.48493	0.16653
637586	5857770	C14	12.13	0.00001	0.98036	0.00019	0.01079	0.00004	0.00001	0.71232	0.00004	0.00113	0.00041	0.00267	0.00010	0.00182	3.97577	0.00027	0.00000	0.00006	0.00000	0.49922	0.00058	0.00050	0.45252	0.15540
637560	5858030	C15	10.80	0.00001	0.87277	0.00017	0.00961	0.00004	0.00001	0.63414	0.00003	0.00100	0.00037	0.00238	0.00009	0.00162	3.53946	0.00024	0.00000	0.00006	0.00000	0.44443	0.00051	0.00045	0.40286	0.13834
637559	5858098	C16	10.66	0.00001	0.86153	0.00016	0.00949	0.00003	0.00001	0.62598	0.00003	0.00099	0.00036	0.00234	0.00009	0.00160	3.49387	0.00024	0.00000	0.00005	0.00000	0.43871	0.00051	0.00044	0.39767	0.13656
637382	5858387	C17	10.04	0.00001	0.81117	0.00016	0.00893	0.00003	0.00001	0.58938	0.00003	0.00093	0.00034	0.00221	0.00008	0.00151	3.28963	0.00022	0.00000	0.00005	0.00000	0.41306	0.00048	0.00042	0.37442	0.12858
636439	5858885	C18	7.40	0.00001	0.59818	0.00011	0.00659	0.00002	0.00000	0.43463	0.00002	0.00069	0.00025	0.00163	0.00006	0.00111	2.42589	0.00017	0.00000	0.00004	0.00000	0.30461	0.00035	0.00031	0.27611	0.09482
636532	5858958	C19	7.55	0.00001	0.61050	0.00012	0.00672	0.00002	0.00000	0.44358	0.00002	0.00070	0.00026	0.00166	0.00006	0.00113	2.47582	0.00017	0.00000	0.00004	0.00000	0.31087	0.00036	0.00031	0.28180	0.09677
636641	5859177	C20	7.39	0.00001	0.59772	0.00011	0.00658	0.00002	0.00000	0.43429	0.00002	0.00069	0.00025	0.00163	0.00006	0.00111	2.42401	0.00016	0.00000	0.00004	0.00000	0.30437	0.00035	0.00031	0.27590	0.09475
636587	5859379	C21	6.83	0.00001	0.55213	0.00011	0.00608	0.00002	0.00000	0.40117	0.00002	0.00063	0.00023	0.00150	0.00005	0.00102	2.23914	0.00015	0.00000	0.00003	0.00000	0.28116	0.00032	0.00028	0.25486	0.08752
636606	5859083	C22	7.50	0.00001	0.60631	0.00012	0.00668	0.00002	0.00000	0.44054	0.00002	0.00070	0.00026	0.00165	0.00006	0.00113	2.45886	0.00017	0.00000	0.00004	0.00000	0.30875	0.00036	0.00031	0.27987	0.09611
636333	5859399	C23	6.08	0.00001	0.49175	0.00009	0.00541	0.00002	0.00000	0.35730	0.00002	0.00057	0.00021	0.00134	0.00005	0.00091	1.99424	0.00014	0.00000	0.00003	0.00000	0.25041	0.00029	0.00025	0.22698	0.07795
636210	5859591	C24	5.58	0.00001	0.45067	0.00009	0.00496	0.00002	0.00000	0.32745	0.00002	0.00052	0.00019	0.00123	0.00004	0.00084	1.82764	0.00012	0.00000	0.00003	0.00000	0.22949	0.00026	0.00023	0.20802	0.07144
637527	5858534	C25	9.48	0.00001	0.76655	0.00015	0.00844	0.00003	0.00001	0.55697	0.00003	0.00088	0.00032	0.00209	0.00008	0.00142	3.10871	0.00021	0.00000	0.00005	0.00000	0.39034	0.00045	0.00039	0.35383	0.12151
638188	5859443	C26	7.14	0.00001	0.57740	0.00011	0.00636	0.00002	0.00000	0.41953	0.00002	0.00066	0.00024	0.00157	0.00006	0.00107	2.34162	0.00016	0.00000	0.00004	0.00000	0.29402	0.00034	0.00030	0.26652	0.09153
638031	5859903	C27	6.51	0.00001	0.52635	0.00010	0.00580	0.00002	0.00000	0.38244	0.00002	0.00060	0.00022	0.00143	0.00005	0.00098	2.13457	0.00015	0.00000	0.00003	0.00000	0.26803	0.00031	0.00027	0.24296	0.08343
638118	5860165	C28	6.07	0.00001	0.49029	0.00009	0.00540	0.00002	0.00000	0.35624	0.00002	0.00056	0.00021	0.00133	0.00005	0.00091	1.98832	0.00014	0.00000	0.00003	0.00000	0.24966	0.00029	0.00025	0.22631	0.07772
638095	5860245	C29	5.97	0.00001	0.48290	0.00009	0.00532	0.00002	0.00000	0.35087	0.00002	0.00055	0.00020	0.00131	0.00005	0.00090	1.95835	0.00013	0.00000	0.00003	0.00000	0.24590	0.00028	0.00025	0.22290	0.07654
635722	5860584	C30	4.30	0.00000	0.34743	0.00007	0.00383	0.00001	0.00000	0.25244	0.00001	0.00040	0.00015	0.00095	0.00003	0.00064	1.40898	0.00010	0.00000	0.00002	0.00000	0.17692	0.00020	0.00018	0.16037	0.05507

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
635612	5860422	C31	4.22	0.00000	0.34134	0.00007	0.00376	0.00001	0.00000	0.24801	0.00001	0.00039	0.00014	0.00093	0.00003	0.00063	1.38428	0.00009	0.00000	0.00002	0.00000	0.17382	0.00020	0.00018	0.15756	0.05411
635465	5860366	C32	4.16	0.00000	0.33653	0.00006	0.00371	0.00001	0.00000	0.24452	0.00001	0.00039	0.00014	0.00092	0.00003	0.00062	1.36477	0.00009	0.00000	0.00002	0.00000	0.17137	0.00020	0.00017	0.15534	0.05334
635190	5860556	C33	4.08	0.00000	0.32986	0.00006	0.00363	0.00001	0.00000	0.23967	0.00001	0.00038	0.00014	0.00090	0.00003	0.00061	1.33771	0.00009	0.00000	0.00002	0.00000	0.16797	0.00019	0.00017	0.15226	0.05229
635188	5860635	C34	4.03	0.00000	0.32613	0.00006	0.00359	0.00001	0.00000	0.23696	0.00001	0.00037	0.00014	0.00089	0.00003	0.00061	1.32260	0.00009	0.00000	0.00002	0.00000	0.16607	0.00019	0.00017	0.15054	0.05170
635168	5860785	C35	3.93	0.00000	0.31774	0.00006	0.00350	0.00001	0.00000	0.23086	0.00001	0.00037	0.00013	0.00086	0.00003	0.00059	1.28856	0.00009	0.00000	0.00002	0.00000	0.16180	0.00019	0.00016	0.14666	0.05037
635180	5860828	C36	3.88	0.00000	0.31334	0.00006	0.00345	0.00001	0.00000	0.22767	0.00001	0.00036	0.00013	0.00085	0.00003	0.00058	1.27073	0.00009	0.00000	0.00002	0.00000	0.15956	0.00018	0.00016	0.14463	0.04967
635148	5860858	C37	3.87	0.00000	0.31266	0.00006	0.00344	0.00001	0.00000	0.22718	0.00001	0.00036	0.00013	0.00085	0.00003	0.00058	1.26798	0.00009	0.00000	0.00002	0.00000	0.15921	0.00018	0.00016	0.14432	0.04956
640778	5857817	C38	9.04	0.00001	0.73079	0.00014	0.00805	0.00003	0.00001	0.53098	0.00003	0.00084	0.00031	0.00199	0.00007	0.00136	2.96367	0.00020	0.00000	0.00005	0.00000	0.37213	0.00043	0.00038	0.33732	0.11584
640792	5857910	C39	8.76	0.00001	0.70839	0.00014	0.00780	0.00003	0.00000	0.51470	0.00003	0.00081	0.00030	0.00193	0.00007	0.00131	2.87280	0.00020	0.00000	0.00004	0.00000	0.36072	0.00042	0.00036	0.32698	0.11229
641137	5857913	C40	7.99	0.00001	0.64613	0.00012	0.00711	0.00003	0.00000	0.46947	0.00003	0.00074	0.00027	0.00176	0.00006	0.00120	2.62033	0.00018	0.00000	0.00004	0.00000	0.32902	0.00038	0.00033	0.29824	0.10242
641364	5857725	C41	8.06	0.00001	0.65175	0.00012	0.00718	0.00003	0.00000	0.47355	0.00003	0.00075	0.00027	0.00177	0.00006	0.00121	2.64313	0.00018	0.00000	0.00004	0.00000	0.33188	0.00038	0.00034	0.30084	0.10331
641817	5857027	C42	8.30	0.00001	0.67077	0.00013	0.00739	0.00003	0.00000	0.48738	0.00003	0.00077	0.00028	0.00183	0.00007	0.00124	2.72028	0.00019	0.00000	0.00004	0.00000	0.34157	0.00039	0.00035	0.30962	0.10633
641845	5856814	C43	8.79	0.00001	0.71037	0.00014	0.00782	0.00003	0.00000	0.51615	0.00003	0.00082	0.00030	0.00193	0.00007	0.00132	2.88086	0.00020	0.00000	0.00004	0.00000	0.36173	0.00042	0.00037	0.32790	0.11260
641912	5857277	C44	7.50	0.00001	0.60637	0.00012	0.00668	0.00002	0.00000	0.44058	0.00002	0.00070	0.00026	0.00165	0.00006	0.00113	2.45910	0.00017	0.00000	0.00004	0.00000	0.30878	0.00036	0.00031	0.27989	0.09612
641840	5857280	C45	7.71	0.00001	0.62289	0.00012	0.00686	0.00003	0.00000	0.45258	0.00002	0.00072	0.00026	0.00170	0.00006	0.00116	2.52608	0.00017	0.00000	0.00004	0.00000	0.31719	0.00037	0.00032	0.28752	0.09874
641870	5857362	C46	7.52	0.00001	0.60812	0.00012	0.00670	0.00002	0.00000	0.44185	0.00002	0.00070	0.00026	0.00166	0.00006	0.00113	2.46619	0.00017	0.00000	0.00004	0.00000	0.30967	0.00036	0.00031	0.28070	0.09639
641637	5857345	C47	8.15	0.00001	0.65915	0.00013	0.00726	0.00003	0.00000	0.47893	0.00003	0.00076	0.00028	0.00179	0.00007	0.00122	2.67314	0.00018	0.00000	0.00004	0.00000	0.33565	0.00039	0.00034	0.30425	0.10448
641560	5857425	C48	8.22	0.00001	0.66455	0.00013	0.00732	0.00003	0.00000	0.48285	0.00003	0.00076	0.00028	0.00181	0.00007	0.00123	2.69502	0.00018	0.00000	0.00004	0.00000	0.33840	0.00039	0.00034	0.30675	0.10534
641454	5857455	C49	8.36	0.00001	0.67555	0.00013	0.00744	0.00003	0.00000	0.49085	0.00003	0.00078	0.00028	0.00184	0.00007	0.00125	2.73965	0.00019	0.00000	0.00004	0.00000	0.34400	0.00040	0.00035	0.31183	0.10708
641550	5857525	C50	8.07	0.00001	0.65240	0.00012	0.00718	0.00003	0.00000	0.47402	0.00003	0.00075	0.00027	0.00178	0.00006	0.00121	2.64575	0.00018	0.00000	0.00004	0.00000	0.33221	0.00038	0.00034	0.30114	0.10341
641466	5857605	C51	8.05	0.00001	0.65047	0.00012	0.00716	0.00003	0.00000	0.47262	0.00003	0.00075	0.00027	0.00177	0.00006	0.00121	2.63791	0.00018	0.00000	0.00004	0.00000	0.33123	0.00038	0.00033	0.30025	0.10311
643367	5857533	C52	4.85	0.00001	0.39195	0.00007	0.00432	0.00002	0.00000	0.28479	0.00002	0.00045	0.00017	0.00107	0.00004	0.00073	1.58954	0.00011	0.00000	0.00002	0.00000	0.19959	0.00023	0.00020	0.18092	0.06213
641285	5858131	C53	7.39	0.00001	0.59719	0.00011	0.00658	0.00002	0.00000	0.43391	0.00002	0.00069	0.00025	0.00163	0.00006	0.00111	2.42187	0.00016	0.00000	0.00004	0.00000	0.30410	0.00035	0.00031	0.27566	0.09466
641270	5858280	C54	7.26	0.00001	0.58668	0.00011	0.00646	0.00002	0.00000	0.42628	0.00002	0.00067	0.00025	0.00160	0.00006	0.00109	2.37925	0.00016	0.00000	0.00004	0.00000	0.29875	0.00034	0.00030	0.27081	0.09300
645508	5854970	C55	2.96	0.00000	0.23891	0.00005	0.00263	0.00001	0.00000	0.17359	0.00001	0.00027	0.00010	0.00065	0.00002	0.00044	0.96890	0.00007	0.00000	0.00002	0.00000	0.12166	0.00014	0.00012	0.11028	0.03787
645337	5854863	C56	3.03	0.00000	0.24500	0.00005	0.00270	0.00001	0.00000	0.17802	0.00001	0.00028	0.00010	0.00067	0.00002	0.00045	0.99359	0.00007	0.00000	0.00002	0.00000	0.12476	0.00014	0.00013	0.11309	0.03884
645280	5854855	C57	3.05	0.00000	0.24669	0.00005	0.00272	0.00001	0.00000	0.17924	0.00001	0.00028	0.00010	0.00067	0.00002	0.00046	1.00042	0.00007	0.00000	0.00002	0.00000	0.12562	0.00014	0.00013	0.11387	0.03910
644937	5855135	C58	3.16	0.00000	0.25531	0.00005	0.00281	0.00001	0.00000	0.18551	0.00001	0.00029	0.00011	0.00069	0.00003	0.00047	1.03540	0.00007	0.00000	0.00002	0.00000	0.13001	0.00015	0.00013	0.11785	0.04047
644879	5855382	C59	3.11	0.00000	0.25128	0.00005	0.00277	0.00001	0.00000	0.18258	0.00001	0.00029	0.00011	0.00068	0.00002	0.00047	1.01904	0.00007	0.00000	0.00002	0.00000	0.12795	0.00015	0.00013	0.11599	0.03983
644973	5855439	C60	3.06	0.00000	0.24744	0.00005	0.00272	0.00001	0.00000	0.17979	0.00001	0.00028	0.00010	0.00067	0.00002	0.00046	1.00348	0.00007	0.00000	0.00002	0.00000	0.12600	0.00015	0.00013	0.11422	0.03922
645128	5855811	C61	2.92	0.00000	0.23640	0.00005	0.00260	0.00001	0.00000	0.17176	0.00001	0.00027	0.00010	0.00064	0.00002	0.00044	0.95869	0.00007	0.00000	0.00001	0.00000	0.12038	0.00014	0.00012	0.10912	0.03747
645033	5855931	C62	3.00	0.00000	0.24277	0.00005	0.00267	0.00001	0.00000	0.17639	0.00001	0.00028	0.00010	0.00066	0.00002	0.00045	0.98453	0.00007	0.00000	0.00002	0.00000	0.12362	0.00014	0.00012	0.11206	0.03848
645036	5856103	C63	3.00	0.00000	0.24251	0.00005	0.00267	0.00001	0.00000	0.17620	0.00001	0.00028	0.00010	0.00066	0.00002	0.00045	0.98347	0.00007	0.00000	0.00002	0.00000	0.12349	0.00014	0.00012	0.11194	0.03844
645180	5855879	C64	2.91	0.00000	0.23542	0.00004	0.00259	0.00001	0.00000	0.17105	0.00001	0.00027	0.00010	0.00064	0.00002	0.00044	0.95473	0.00006	0.00000	0.00001	0.00000	0.11988	0.00014	0.00012	0.10867	0.03732
645330	5855813	C65	2.90	0.00000	0.23438	0.00004	0.00258	0.00001	0.00000	0.17029	0.00001	0.00027	0.00010	0.00064	0.00002	0.00043	0.95050	0.00006	0.00000	0.00001	0.00000	0.11935	0.00014	0.00012	0.10818	0.03715
645506	5855706	C66	2.94	0.00000	0.23760	0.00005	0.00262	0.00001	0.00000	0.17264	0.00001	0.00027	0.00010	0.00065	0.00002	0.00044	0.96357	0.00007	0.00000	0.00001	0.00000	0.12099	0.00014	0.00012	0.10967	0.03766
645632	5855645	C67	3.03	0.00000	0.24453	0.00005	0.00269	0.00001	0.00000	0.17768	0.00001	0.00028	0.00010	0.00067	0.00002	0.00045	0.99169	0.00007	0.00000	0.00002	0.00000	0.12452	0.00014	0.00013	0.11287	0.03876
645590	5855519	C68	2.94	0.00000	0.23761	0.00005	0.00262	0.00001	0.00000	0.17264	0.00001	0.00027	0.00010	0.00065	0.00002	0.00044	0.96361	0.00007	0.00000	0.00001	0.00000	0.12100	0.00014	0.00012	0.10968	0.03766
645598	5855459	C69	2.99	0.00000	0.24154	0.00005	0.00266	0.00001	0.00000	0.17550	0.00001	0.00028	0.00010	0.00066	0.00002	0.00045	0.97956	0.00007	0.00000	0.00002	0.00000	0.12300	0.00014	0.00012	0.11149	0.03829
645662	5855286	C70	2.93	0.00000	0.23662	0.00005	0.00261	0.00001	0.00000	0.17192	0.00001	0.00027	0.00010	0.00064	0.00002	0.00044	0.95958	0.00007	0.00000	0.00001	0.00000	0.12049	0.00014	0.00012	0.10922	0.03751
645835	5855153	C71	2.86	0.00000	0.23083	0.00004	0.00254	0.00001	0.00000	0.16772	0.00001	0.00027	0.00010	0.00063	0.00002	0.00043	0.93613	0.00006	0.00000	0.00001	0.00000	0.11754	0.00014	0.00012	0.10655	0.03659
645976	5855021	C72	2.88	0.00000	0.23280	0.00004	0.00256	0.00001	0.00000	0.16915	0.00001	0.00027	0.00010	0.00063	0.00002	0.00043	0.94409	0.00006	0.00000	0.00001	0.00000	0.11854	0.00014	0.00012	0.10746	0.03690
646064	5854763	C73	2.86	0.00000	0.23094	0.00004	0.00254	0.00001	0.00000	0.16780	0.00001	0.00027	0.00010	0.00063	0.00002	0.00043	0.93656	0.00006	0.00000	0.00001	0.00000	0.11760	0.00014	0.00012	0.10660	0.03661
645907	5854390	C74	2.92	0.00000	0.23619	0.00005	0.00260	0.00001	0.00000	0.17162	0.00001	0.00027	0.00010	0.00064	0.00002	0.00044	0.95787	0.00007	0.00000	0.00001	0.00000	0.12027	0.00014	0.00012	0.10902	0.03744
645885	5854242	C75	2.98	0.00000	0.24056	0.00005	0.00265	0.00001	0.00000	0.17479	0.00001	0.00028	0.00010	0.00065	0.00002	0.00045	0.97557	0.00007	0.00000	0.00002	0.00000	0.12250	0.00014	0.00012	0.11104	0.03813
645737	5853966	C76	2.93	0.00000	0.23701	0.00005	0.00261	0.00001	0.00000	0.17221	0.00001	0.00027	0.00010	0.00065	0.00002	0.00044	0.96119	0.00007	0.00000	0.00001	0.00000	0.12069	0.00014	0.00012	0.10940	0.03757
646109	5853232	C77	2.91	0.00000	0.23488	0.00004	0.00259	0.00001	0.00000	0.17066	0.00001	0.00027	0.00010	0.00064	0.00002	0.00044	0.95254	0.00006	0.00000	0.00001	0.00000	0.11960	0.00014	0.00012	0.10842	0.03723
646092	5852876	C78	2.92	0.00000	0.23569	0.00005	0.00260	0.00001	0.00000	0.17125	0.00001	0.00027	0.00010	0.00064	0.00002	0.00044	0.95584	0.00007	0.00000	0.00001	0.00000	0.12002	0.00014	0.00012	0.10879	0.03736
646044	5852660	C79	2.92	0.00000	0.23609	0.00005	0.00260	0.00001	0.00000	0.17154	0.00001	0.00027	0.00010	0.00064	0.00002	0.00044	0.95746	0.00007	0.00000	0.00001	0.00000	0.12022	0.00014	0.00012	0.10898	0.03742
646428	5852634	C80	2.82	0.00000	0.22792	0.00004	0.00251	0.00001	0.00000	0.16561	0.00001	0.00026	0.00010	0.00062	0.00002	0.00042	0.92432	0.00006	0.00000	0.00001	0.00000	0.11606	0.00013	0.00012	0.10521	0.03613
646459	5852650	C81	2.81	0.00000	0.22729	0.00004	0.00250	0.00001	0.00000	0.16515	0.00001	0.00026	0.00010	0.00062	0.00002	0.00042	0.92176	0.00006	0.00000	0.00001	0.00000	0.11574	0.00013	0.00012	0.10491	0.03603
647491	5856467	C82	2.16	0.00000	0.17498	0.00003	0.00193	0.00001	0.00000	0.12714	0.00001	0.00020	0.00007	0.00048	0.00002	0.00032	0.70962	0.00005	0.00000	0.00001	0.00000	0.08910	0.00010	0.00009	0.08077	0.02774
647943	5857121	C83	1.95	0.00000	0.15767	0.00003	0.00174	0.00001	0.00000	0.11456	0.00001	0.00018	0.00007	0.00043	0.00002	0.00029	0.63942	0.00004	0.00000	0.00001	0.00000	0.08029	0.00009	0.00008	0.07278	0.02499
650541	5853616	C84	1.63	0.00000	0.13201	0.00003	0.00145	0.00001	0.00000	0.09592	0.00001	0.00015	0.00006	0.00036	0.00001	0.00024	0.53536	0.00004	0.00000	0.00001	0.00000	0.06722	0.00008	0.00007	0.06093	0.02093
649585	5855076	C85	1.68	0.00000	0.13557	0.00003	0.00149	0.00001	0.00000	0.09851	0.00001	0.00016	0.00006	0.00037	0.00001	0.00025	0.54981	0.00004	0.00000	0.00001	0.00000	0.06904	0.00008	0.00007	0.06258	0.02149
649478	5856416	C86	1.61	0.00000	0.13042	0.00002	0.00144	0.00001	0.00000	0.09476	0.00001	0.00015	0.00005	0.00035	0.00001	0.00024	0.52892	0.00004	0.00000	0.00001	0.00000	0.06641	0.00008	0.00007	0.06020	0.02067

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
647046	5860524	C87	1.71	0.00000	0.13826	0.00003	0.00152	0.00001	0.00000	0.10046	0.00001	0.00016	0.00006	0.00038	0.00001	0.00026	0.56069	0.00004	0.00000	0.00001	0.00000	0.07040	0.00008	0.00007	0.06382	0.02192
649298	5858934	C88	1.41	0.00000	0.11390	0.00002	0.00125	0.00000	0.00000	0.08276	0.00000	0.00013	0.00005	0.00031	0.00001	0.00021	0.46191	0.00003	0.00000	0.00001	0.00000	0.05800	0.00007	0.00006	0.05257	0.01805
649221	5858590	C89	1.48	0.00000	0.11929	0.00002	0.00131	0.00000	0.00000	0.08668	0.00000	0.00014	0.00005	0.00032	0.00001	0.00022	0.48378	0.00003	0.00000	0.00001	0.00000	0.06075	0.00007	0.00006	0.05506	0.01891
655939	5864862	C90	0.42	0.00000	0.03429	0.00001	0.00038	0.00000	0.00000	0.02491	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13905	0.00001	0.00000	0.00000	0.00000	0.01746	0.00002	0.00002	0.01583	0.00543
653216	5864965	C91	0.54	0.00000	0.04384	0.00001	0.00048	0.00000	0.00000	0.03185	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17778	0.00001	0.00000	0.00000	0.00000	0.02232	0.00003	0.00002	0.02023	0.00695
650592	5866521	C92	0.67	0.00000	0.05385	0.00001	0.00059	0.00000	0.00000	0.03913	0.00000	0.00006	0.00002	0.00015	0.00001	0.00010	0.21838	0.00001	0.00000	0.00000	0.00000	0.02742	0.00003	0.00003	0.02486	0.00854
654383	5868124	C93	0.43	0.00000	0.03440	0.00001	0.00038	0.00000	0.00000	0.02500	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13952	0.00001	0.00000	0.00000	0.00000	0.01752	0.00002	0.00002	0.01588	0.00545
652330	5866689	C94	0.55	0.00000	0.04424	0.00001	0.00049	0.00000	0.00000	0.03214	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17940	0.00001	0.00000	0.00000	0.00000	0.02253	0.00003	0.00002	0.02042	0.00701
652553	5866833	C95	0.53	0.00000	0.04312	0.00001	0.00047	0.00000	0.00000	0.03133	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17487	0.00001	0.00000	0.00000	0.00000	0.02196	0.00003	0.00002	0.01990	0.00683
651537	5866940	C96	0.59	0.00000	0.04736	0.00001	0.00052	0.00000	0.00000	0.03441	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19207	0.00001	0.00000	0.00000	0.00000	0.02412	0.00003	0.00002	0.02186	0.00751
651680	5866973	C97	0.58	0.00000	0.04659	0.00001	0.00051	0.00000	0.00000	0.03385	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18896	0.00001	0.00000	0.00000	0.00000	0.02373	0.00003	0.00002	0.02151	0.00739
652221	5867025	C98	0.54	0.00000	0.04384	0.00001	0.00048	0.00000	0.00000	0.03185	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17778	0.00001	0.00000	0.00000	0.00000	0.02232	0.00003	0.00002	0.02023	0.00695
652077	5867051	C99	0.55	0.00000	0.04447	0.00001	0.00049	0.00000	0.00000	0.03231	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18036	0.00001	0.00000	0.00000	0.00000	0.02265	0.00003	0.00002	0.02053	0.00705
651961	5867112	C100	0.56	0.00000	0.04498	0.00001	0.00050	0.00000	0.00000	0.03268	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18243	0.00001	0.00000	0.00000	0.00000	0.02291	0.00003	0.00002	0.02076	0.00713
651905	5867245	C101	0.56	0.00000	0.04491	0.00001	0.00049	0.00000	0.00000	0.03263	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18213	0.00001	0.00000	0.00000	0.00000	0.02287	0.00003	0.00002	0.02073	0.00712
651748	5867033	C102	0.57	0.00000	0.04614	0.00001	0.00051	0.00000	0.00000	0.03352	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18712	0.00001	0.00000	0.00000	0.00000	0.02350	0.00003	0.00002	0.02130	0.00731
651696	5867089	C103	0.57	0.00000	0.04622	0.00001	0.00051	0.00000	0.00000	0.03359	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18746	0.00001	0.00000	0.00000	0.00000	0.02354	0.00003	0.00002	0.02134	0.00733
651770	5867105	C104	0.57	0.00000	0.04590	0.00001	0.00051	0.00000	0.00000	0.03335	0.00000	0.00005	0.00002	0.00012	0.00000	0.00009	0.18613	0.00001	0.00000	0.00000	0.00000	0.02337	0.00003	0.00002	0.02119	0.00728
651729	5867176	C105	0.57	0.00000	0.04591	0.00001	0.00051	0.00000	0.00000	0.03336	0.00000	0.00005	0.00002	0.00012	0.00000	0.00009	0.18620	0.00001	0.00000	0.00000	0.00000	0.02338	0.00003	0.00002	0.02119	0.00728
651644	5867146	C106	0.57	0.00000	0.04634	0.00001	0.00051	0.00000	0.00000	0.03367	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18794	0.00001	0.00000	0.00000	0.00000	0.02360	0.00003	0.00002	0.02139	0.00735
651661	5867207	C107	0.57	0.00000	0.04613	0.00001	0.00051	0.00000	0.00000	0.03352	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18708	0.00001	0.00000	0.00000	0.00000	0.02349	0.00003	0.00002	0.02129	0.00731
651724	5867266	C108	0.57	0.00000	0.04570	0.00001	0.00050	0.00000	0.00000	0.03321	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18535	0.00001	0.00000	0.00000	0.00000	0.02327	0.00003	0.00002	0.02110	0.00724
651643	5867292	C109	0.57	0.00000	0.04599	0.00001	0.00051	0.00000	0.00000	0.03341	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18649	0.00001	0.00000	0.00000	0.00000	0.02342	0.00003	0.00002	0.02123	0.00729
651530	5867285	C110	0.58	0.00000	0.04648	0.00001	0.00051	0.00000	0.00000	0.03377	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18851	0.00001	0.00000	0.00000	0.00000	0.02367	0.00003	0.00002	0.02146	0.00737
651454	5867326	C111	0.58	0.00000	0.04670	0.00001	0.00051	0.00000	0.00000	0.03393	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18937	0.00001	0.00000	0.00000	0.00000	0.02378	0.00003	0.00002	0.02155	0.00740
651429	5867373	C112	0.58	0.00000	0.04670	0.00001	0.00051	0.00000	0.00000	0.03393	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18938	0.00001	0.00000	0.00000	0.00000	0.02378	0.00003	0.00002	0.02156	0.00740
651534	5867399	C113	0.57	0.00000	0.04618	0.00001	0.00051	0.00000	0.00000	0.03355	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18728	0.00001	0.00000	0.00000	0.00000	0.02352	0.00003	0.00002	0.02132	0.00732
651493	5867516	C114	0.57	0.00000	0.04608	0.00001	0.00051	0.00000	0.00000	0.03348	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18688	0.00001	0.00000	0.00000	0.00000	0.02347	0.00003	0.00002	0.02127	0.00730
651408	5867479	C115	0.58	0.00000	0.04652	0.00001	0.00051	0.00000	0.00000	0.03380	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18867	0.00001	0.00000	0.00000	0.00000	0.02369	0.00003	0.00002	0.02147	0.00737
651364	5867523	C116	0.58	0.00000	0.04664	0.00001	0.00051	0.00000	0.00000	0.03389	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18916	0.00001	0.00000	0.00000	0.00000	0.02375	0.00003	0.00002	0.02153	0.00739
651278	5867742	C117	0.58	0.00000	0.04648	0.00001	0.00051	0.00000	0.00000	0.03377	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18850	0.00001	0.00000	0.00000	0.00000	0.02367	0.00003	0.00002	0.02145	0.00737
651350	5867873	C118	0.57	0.00000	0.04586	0.00001	0.00050	0.00000	0.00000	0.03332	0.00000	0.00005	0.00002	0.00012	0.00000	0.00009	0.18600	0.00001	0.00000	0.00000	0.00000	0.02335	0.00003	0.00002	0.02117	0.00727
644982	5868164	C119	0.98	0.00000	0.07946	0.00002	0.00087	0.00000	0.00000	0.05773	0.00000	0.00009	0.00003	0.00022	0.00001	0.00015	0.32224	0.00002	0.00000	0.00001	0.00000	0.04046	0.00005	0.00004	0.03668	0.01260
645736	5872547	C120	0.62	0.00000	0.05010	0.00001	0.00055	0.00000	0.00000	0.03640	0.00000	0.00006	0.00002	0.00014	0.00000	0.00009	0.20316	0.00001	0.00000	0.00000	0.00000	0.02551	0.00003	0.00003	0.02312	0.00794
647298	5871617	C121	0.55	0.00000	0.04440	0.00001	0.00049	0.00000	0.00000	0.03226	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18004	0.00001	0.00000	0.00000	0.00000	0.02261	0.00003	0.00002	0.02049	0.00704
647380	5872093	C122	0.52	0.00000	0.04239	0.00001	0.00047	0.00000	0.00000	0.03080	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17191	0.00001	0.00000	0.00000	0.00000	0.02159	0.00002	0.00002	0.01957	0.00672
647567	5872814	C123	0.49	0.00000	0.03921	0.00001	0.00043	0.00000	0.00000	0.02849	0.00000	0.00005	0.00002	0.00011	0.00000	0.00007	0.15900	0.00001	0.00000	0.00000	0.00000	0.01996	0.00002	0.00002	0.01810	0.00621
648994	5873411	C124	0.42	0.00000	0.03408	0.00001	0.00038	0.00000	0.00000	0.02476	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13821	0.00001	0.00000	0.00000	0.00000	0.01735	0.00002	0.00002	0.01573	0.00540
648810	5872842	C125	0.45	0.00000	0.03632	0.00001	0.00040	0.00000	0.00000	0.02639	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.14731	0.00001	0.00000	0.00000	0.00000	0.01850	0.00002	0.00002	0.01677	0.00576
649250	5872924	C126	0.44	0.00000	0.03543	0.00001	0.00039	0.00000	0.00000	0.02575	0.00000	0.00004	0.00001	0.00010	0.00000	0.00007	0.14370	0.00001	0.00000	0.00000	0.00000	0.01804	0.00002	0.00002	0.01636	0.00562
649691	5872831	C127	0.44	0.00000	0.03521	0.00001	0.00039	0.00000	0.00000	0.02558	0.00000	0.00004	0.00001	0.00010	0.00000	0.00007	0.14278	0.00001	0.00000	0.00000	0.00000	0.01793	0.00002	0.00002	0.01625	0.00558
649454	5872485	C128	0.45	0.00000	0.03671	0.00001	0.00040	0.00000	0.00000	0.02668	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.14889	0.00001	0.00000	0.00000	0.00000	0.01870	0.00002	0.00002	0.01695	0.00582
648506	5871449	C129	0.52	0.00000	0.04219	0.00001	0.00046	0.00000	0.00000	0.03065	0.00000	0.00005	0.00002	0.00011	0.00000	0.00008	0.17109	0.00001	0.00000	0.00000	0.00000	0.02148	0.00002	0.00002	0.01947	0.00669
648477	5871383	C130	0.53	0.00000	0.04251	0.00001	0.00047	0.00000	0.00000	0.03089	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17239	0.00001	0.00000	0.00000	0.00000	0.02165	0.00002	0.00002	0.01962	0.00674
648480	5871299	C131	0.53	0.00000	0.04283	0.00001	0.00047	0.00000	0.00000	0.03112	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17369	0.00001	0.00000	0.00000	0.00000	0.02181	0.00003	0.00002	0.01977	0.00679
649256	5871272	C132	0.51	0.00000	0.04144	0.00001	0.00046	0.00000	0.00000	0.03011	0.00000	0.00005	0.00002	0.00011	0.00000	0.00008	0.16804	0.00001	0.00000	0.00000	0.00000	0.02110	0.00002	0.00002	0.01913	0.00657
649219	5871153	C133	0.52	0.00000	0.04195	0.00001	0.00046	0.00000	0.00000	0.03048	0.00000	0.00005	0.00002	0.00011	0.00000	0.00008	0.17013	0.00001	0.00000	0.00000	0.00000	0.02136	0.00002	0.00002	0.01936	0.00665
649040	5870831	C134	0.54	0.00000	0.04356	0.00001	0.00048	0.00000	0.00000	0.03165	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17664	0.00001	0.00000	0.00000	0.00000	0.02218	0.00003	0.00002	0.02011	0.00690
648373	5871125	C135	0.54	0.00000	0.04383	0.00001	0.00048	0.00000	0.00000	0.03184	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.17774	0.00001	0.00000	0.00000	0.00000	0.02232	0.00003	0.00002	0.02023	0.00695
648315	5870872	C136	0.56	0.00000	0.04498	0.00001	0.00050	0.00000	0.00000	0.03268	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18243	0.00001	0.00000	0.00000	0.00000	0.02291	0.00003	0.00002	0.02076	0.00713
647828	5870049	C137	0.62	0.00000	0.04997	0.00001	0.00055	0.00000	0.00000	0.03631	0.00000	0.00006	0.00002	0.00014	0.00000	0.00009	0.20264	0.00001	0.00000	0.00000	0.00000	0.02544	0.00003	0.00003	0.02306	0.00792
647878	5869444	C138	0.65	0.00000	0.05243	0.00001	0.00058	0.00000	0.00000	0.03809	0.00000	0.00006	0.00002	0.00014	0.00001	0.00010	0.21261	0.00001	0.00000	0.00000	0.00000	0.02670	0.00003	0.00003	0.02420	0.00831
648314	5870737	C139	0.56	0.00000	0.04555	0.00001	0.00050	0.00000	0.00000	0.03309	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18471	0.00001	0.00000	0.00000	0.00000	0.02319	0.00003	0.00002	0.02102	0.00722
648272	5870692	C140	0.57	0.00000	0.04583	0.00001	0.00050	0.00000	0.00000	0.03330	0.00000	0.00005	0.00002	0.00012	0.00000	0.00009	0.18587	0.00001	0.00000	0.00000	0.00000	0.02334	0.00003	0.00002	0.02116	0.00726
648269	5870647	C141	0.57	0.00000	0.04605	0.00001	0.00051	0.00000	0.00000	0.03346	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18676	0.00001	0.00000	0.00000	0.00000	0.02345	0.00003	0.00002	0.02126	0.00730
648258	5870593	C142	0.57	0.00000	0.04630	0.00001	0.00051	0.00000	0.00000	0.03364	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18775	0.00001	0.00000	0.00000	0.00000	0.02357	0.00003	0.00002	0.02137	0.00734

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
648264	5870554	C143	0.57	0.00000	0.04644	0.00001	0.00051	0.00000	0.00000	0.03374	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18832	0.00001	0.00000	0.00000	0.00000	0.02365	0.00003	0.00002	0.02143	0.00736
648270	5870506	C144	0.58	0.00000	0.04663	0.00001	0.00051	0.00000	0.00000	0.03388	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18912	0.00001	0.00000	0.00000	0.00000	0.02375	0.00003	0.00002	0.02153	0.00739
648272	5870458	C145	0.58	0.00000	0.04684	0.00001	0.00052	0.00000	0.00000	0.03404	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18997	0.00001	0.00000	0.00000	0.00000	0.02385	0.00003	0.00002	0.02162	0.00743
648265	5870409	C146	0.58	0.00000	0.04708	0.00001	0.00052	0.00000	0.00000	0.03421	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19092	0.00001	0.00000	0.00000	0.00000	0.02397	0.00003	0.00002	0.02173	0.00746
648284	5870335	C147	0.59	0.00000	0.04734	0.00001	0.00052	0.00000	0.00000	0.03440	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19198	0.00001	0.00000	0.00000	0.00000	0.02411	0.00003	0.00002	0.02185	0.00750
648252	5870309	C148	0.59	0.00000	0.04755	0.00001	0.00052	0.00000	0.00000	0.03455	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19285	0.00001	0.00000	0.00000	0.00000	0.02422	0.00003	0.00002	0.02195	0.00754
649181	5870379	C149	0.55	0.00000	0.04482	0.00001	0.00049	0.00000	0.00000	0.03257	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18177	0.00001	0.00000	0.00000	0.00000	0.02282	0.00003	0.00002	0.02069	0.00710
648970	5869837	C150	0.59	0.00000	0.04752	0.00001	0.00052	0.00000	0.00000	0.03453	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19270	0.00001	0.00000	0.00000	0.00000	0.02420	0.00003	0.00002	0.02193	0.00753
648958	5869792	C151	0.59	0.00000	0.04773	0.00001	0.00053	0.00000	0.00000	0.03468	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19356	0.00001	0.00000	0.00000	0.00000	0.02430	0.00003	0.00002	0.02203	0.00757
648936	5869728	C152	0.59	0.00000	0.04805	0.00001	0.00053	0.00000	0.00000	0.03491	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19487	0.00001	0.00000	0.00000	0.00000	0.02447	0.00003	0.00002	0.02218	0.00762
648920	5869646	C153	0.60	0.00000	0.04845	0.00001	0.00053	0.00000	0.00000	0.03520	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19648	0.00001	0.00000	0.00000	0.00000	0.02467	0.00003	0.00002	0.02236	0.00768
648852	5870349	C154	0.57	0.00000	0.04589	0.00001	0.00051	0.00000	0.00000	0.03334	0.00000	0.00005	0.00002	0.00012	0.00000	0.00009	0.18610	0.00001	0.00000	0.00000	0.00000	0.02337	0.00003	0.00002	0.02118	0.00727
648843	5870252	C155	0.57	0.00000	0.04629	0.00001	0.00051	0.00000	0.00000	0.03364	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18774	0.00001	0.00000	0.00000	0.00000	0.02357	0.00003	0.00002	0.02137	0.00734
648898	5870384	C156	0.56	0.00000	0.04563	0.00001	0.00050	0.00000	0.00000	0.03315	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18504	0.00001	0.00000	0.00000	0.00000	0.02323	0.00003	0.00002	0.02106	0.00723
648951	5870402	C157	0.56	0.00000	0.04542	0.00001	0.00050	0.00000	0.00000	0.03300	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18420	0.00001	0.00000	0.00000	0.00000	0.02313	0.00003	0.00002	0.02097	0.00720
649025	5870559	C158	0.55	0.00000	0.04463	0.00001	0.00049	0.00000	0.00000	0.03243	0.00000	0.00005	0.00002	0.00012	0.00000	0.00008	0.18100	0.00001	0.00000	0.00000	0.00000	0.02273	0.00003	0.00002	0.02060	0.00707
648631	5869828	C159	0.60	0.00000	0.04854	0.00001	0.00053	0.00000	0.00000	0.03527	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19685	0.00001	0.00000	0.00000	0.00000	0.02472	0.00003	0.00002	0.02241	0.00769
648642	5869878	C160	0.60	0.00000	0.04832	0.00001	0.00053	0.00000	0.00000	0.03511	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19595	0.00001	0.00000	0.00000	0.00000	0.02460	0.00003	0.00002	0.02230	0.00766
648651	5869930	C161	0.60	0.00000	0.04810	0.00001	0.00053	0.00000	0.00000	0.03495	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19507	0.00001	0.00000	0.00000	0.00000	0.02449	0.00003	0.00002	0.02220	0.00762
648642	5870001	C162	0.59	0.00000	0.04785	0.00001	0.00053	0.00000	0.00000	0.03477	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19404	0.00001	0.00000	0.00000	0.00000	0.02437	0.00003	0.00002	0.02209	0.00758
648638	5870052	C163	0.59	0.00000	0.04765	0.00001	0.00052	0.00000	0.00000	0.03462	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19323	0.00001	0.00000	0.00000	0.00000	0.02426	0.00003	0.00002	0.02199	0.00755
648632	5870102	C164	0.59	0.00000	0.04748	0.00001	0.00052	0.00000	0.00000	0.03450	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19254	0.00001	0.00000	0.00000	0.00000	0.02418	0.00003	0.00002	0.02192	0.00753
648640	5870160	C165	0.58	0.00000	0.04721	0.00001	0.00052	0.00000	0.00000	0.03430	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19147	0.00001	0.00000	0.00000	0.00000	0.02404	0.00003	0.00002	0.02179	0.00748
648630	5870277	C166	0.58	0.00000	0.04675	0.00001	0.00051	0.00000	0.00000	0.03397	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.18958	0.00001	0.00000	0.00000	0.00000	0.02380	0.00003	0.00002	0.02158	0.00741
648618	5870215	C167	0.58	0.00000	0.04704	0.00001	0.00052	0.00000	0.00000	0.03418	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19075	0.00001	0.00000	0.00000	0.00000	0.02395	0.00003	0.00002	0.02171	0.00746
648594	5870174	C168	0.58	0.00000	0.04727	0.00001	0.00052	0.00000	0.00000	0.03435	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19171	0.00001	0.00000	0.00000	0.00000	0.02407	0.00003	0.00002	0.02182	0.00749
648572	5870134	C169	0.59	0.00000	0.04750	0.00001	0.00052	0.00000	0.00000	0.03451	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19263	0.00001	0.00000	0.00000	0.00000	0.02419	0.00003	0.00002	0.02192	0.00753
648562	5870092	C170	0.59	0.00000	0.04770	0.00001	0.00053	0.00000	0.00000	0.03466	0.00000	0.00005	0.00002	0.00013	0.00000	0.00009	0.19346	0.00001	0.00000	0.00000	0.00000	0.02429	0.00003	0.00002	0.02202	0.00756
648563	5870003	C171	0.59	0.00000	0.04808	0.00001	0.00053	0.00000	0.00000	0.03494	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19499	0.00001	0.00000	0.00000	0.00000	0.02448	0.00003	0.00002	0.02219	0.00762
648562	5869933	C172	0.60	0.00000	0.04837	0.00001	0.00053	0.00000	0.00000	0.03514	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19614	0.00001	0.00000	0.00000	0.00000	0.02463	0.00003	0.00002	0.02232	0.00767
648542	5869871	C173	0.60	0.00000	0.04869	0.00001	0.00054	0.00000	0.00000	0.03538	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19745	0.00001	0.00000	0.00000	0.00000	0.02479	0.00003	0.00003	0.02247	0.00772
648509	5869939	C174	0.60	0.00000	0.04851	0.00001	0.00053	0.00000	0.00000	0.03524	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19672	0.00001	0.00000	0.00000	0.00000	0.02470	0.00003	0.00002	0.02239	0.00769
648495	5869806	C175	0.61	0.00000	0.04908	0.00001	0.00054	0.00000	0.00000	0.03566	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19906	0.00001	0.00000	0.00000	0.00000	0.02499	0.00003	0.00003	0.02266	0.00778
648497	5869710	C176	0.61	0.00000	0.04947	0.00001	0.00054	0.00000	0.00000	0.03594	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.20062	0.00001	0.00000	0.00000	0.00000	0.02519	0.00003	0.00003	0.02283	0.00784
648450	5869788	C177	0.61	0.00000	0.04932	0.00001	0.00054	0.00000	0.00000	0.03583	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.20001	0.00001	0.00000	0.00000	0.00000	0.02511	0.00003	0.00003	0.02276	0.00782
648394	5869829	C178	0.61	0.00000	0.04930	0.00001	0.00054	0.00000	0.00000	0.03582	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19992	0.00001	0.00000	0.00000	0.00000	0.02510	0.00003	0.00003	0.02275	0.00781
648333	5869845	C179	0.61	0.00000	0.04939	0.00001	0.00054	0.00000	0.00000	0.03589	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.20032	0.00001	0.00000	0.00000	0.00000	0.02515	0.00003	0.00003	0.02280	0.00783
648183	5869654	C180	0.63	0.00000	0.05060	0.00001	0.00056	0.00000	0.00000	0.03677	0.00000	0.00006	0.00002	0.00014	0.00001	0.00009	0.20522	0.00001	0.00000	0.00000	0.00000	0.02577	0.00003	0.00003	0.02336	0.00802
648163	5869723	C181	0.62	0.00000	0.05039	0.00001	0.00055	0.00000	0.00000	0.03661	0.00000	0.00006	0.00002	0.00014	0.00001	0.00009	0.20435	0.00001	0.00000	0.00000	0.00000	0.02566	0.00003	0.00003	0.02326	0.00799
648128	5869768	C182	0.62	0.00000	0.05030	0.00001	0.00055	0.00000	0.00000	0.03655	0.00000	0.00006	0.00002	0.00014	0.00000	0.00009	0.20398	0.00001	0.00000	0.00000	0.00000	0.02561	0.00003	0.00003	0.02322	0.00797
648100	5869845	C183	0.62	0.00000	0.05003	0.00001	0.00055	0.00000	0.00000	0.03635	0.00000	0.00006	0.00002	0.00014	0.00000	0.00009	0.20291	0.00001	0.00000	0.00000	0.00000	0.02548	0.00003	0.00003	0.02309	0.00793
648110	5869905	C184	0.62	0.00000	0.04979	0.00001	0.00055	0.00000	0.00000	0.03617	0.00000	0.00006	0.00002	0.00014	0.00000	0.00009	0.20191	0.00001	0.00000	0.00000	0.00000	0.02535	0.00003	0.00003	0.02298	0.00789
648153	5869932	C185	0.61	0.00000	0.04953	0.00001	0.00055	0.00000	0.00000	0.03599	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.20085	0.00001	0.00000	0.00000	0.00000	0.02522	0.00003	0.00003	0.02286	0.00785
648059	5869943	C186	0.62	0.00000	0.04978	0.00001	0.00055	0.00000	0.00000	0.03617	0.00000	0.00006	0.00002	0.00014	0.00000	0.00009	0.20189	0.00001	0.00000	0.00000	0.00000	0.02535	0.00003	0.00003	0.02298	0.00789
648034	5869998	C187	0.61	0.00000	0.04961	0.00001	0.00055	0.00000	0.00000	0.03605	0.00000	0.00006	0.00002	0.00014	0.00000	0.00009	0.20119	0.00001	0.00000	0.00000	0.00000	0.02526	0.00003	0.00003	0.02290	0.00786
648094	5870000	C188	0.61	0.00000	0.04943	0.00001	0.00054	0.00000	0.00000	0.03591	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.20044	0.00001	0.00000	0.00000	0.00000	0.02517	0.00003	0.00003	0.02281	0.00783
648089	5870035	C189	0.61	0.00000	0.04927	0.00001	0.00054	0.00000	0.00000	0.03580	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19983	0.00001	0.00000	0.00000	0.00000	0.02509	0.00003	0.00003	0.02274	0.00781
648087	5870095	C190	0.61	0.00000	0.04902	0.00001	0.00054	0.00000	0.00000	0.03562	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19878	0.00001	0.00000	0.00000	0.00000	0.02496	0.00003	0.00003	0.02263	0.00777
648099	5870138	C191	0.60	0.00000	0.04875	0.00001	0.00054	0.00000	0.00000	0.03542	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19769	0.00001	0.00000	0.00000	0.00000	0.02482	0.00003	0.00003	0.02250	0.00773
648165	5870013	C192	0.61	0.00000	0.04912	0.00001	0.00054	0.00000	0.00000	0.03569	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19920	0.00001	0.00000	0.00000	0.00000	0.02501	0.00003	0.00003	0.02267	0.00779
648175	5870059	C193	0.60	0.00000	0.04888	0.00001	0.00054	0.00000	0.00000	0.03552	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19823	0.00001	0.00000	0.00000	0.00000	0.02489	0.00003	0.00003	0.02256	0.00775
648198	5870103	C194	0.60	0.00000	0.04864	0.00001	0.00054	0.00000	0.00000	0.03534	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19726	0.00001	0.00000	0.00000	0.00000	0.02477	0.00003	0.00003	0.02245	0.00771
648206	5870040	C195	0.60	0.00000	0.04889	0.00001	0.00054	0.00000	0.00000	0.03552	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19827	0.00001	0.00000	0.00000	0.00000	0.02490	0.00003	0.00003	0.02257	0.00775
648201	5869958	C196	0.61	0.00000	0.04928	0.00001	0.00054	0.00000	0.00000	0.03580	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19983	0.00001	0.00000	0.00000	0.00000	0.02509	0.00003	0.00003	0.02274	0.00781
648259	5870043	C197	0.60	0.00000	0.04871	0.00001	0.00054	0.00000	0.00000	0.03539	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19755	0.00001	0.00000	0.00000	0.00000	0.02481	0.00003	0.00003	0.02249	0.00772
648249	5869959	C198	0.61	0.00000	0.04912	0.00001	0.00054	0.00000	0.00000	0.03569	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19921	0.00001	0.00000	0.00000	0.00000	0.02501	0.00003	0.00003	0.02267	0.00779

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
648277	5869977	C199	0.61	0.00000	0.04897	0.00001	0.00054	0.00000	0.00000	0.03558	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19860	0.00001	0.00000	0.00000	0.00000	0.02494	0.00003	0.00003	0.02260	0.00776
648280	5869924	C200	0.61	0.00000	0.04920	0.00001	0.00054	0.00000	0.00000	0.03575	0.00000	0.00006	0.00002	0.00013	0.00000	0.00009	0.19953	0.00001	0.00000	0.00000	0.00000	0.02505	0.00003	0.00003	0.02271	0.00780
651945	5870271	C201	0.45	0.00000	0.03641	0.00001	0.00040	0.00000	0.00000	0.02645	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.14766	0.00001	0.00000	0.00000	0.00000	0.01854	0.00002	0.00002	0.01681	0.00577
651677	5870154	C202	0.46	0.00000	0.03742	0.00001	0.00041	0.00000	0.00000	0.02719	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.15175	0.00001	0.00000	0.00000	0.00000	0.01905	0.00002	0.00002	0.01727	0.00593
651358	5870320	C203	0.47	0.00000	0.03796	0.00001	0.00042	0.00000	0.00000	0.02758	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.15395	0.00001	0.00000	0.00000	0.00000	0.01933	0.00002	0.00002	0.01752	0.00602
651367	5870393	C204	0.47	0.00000	0.03769	0.00001	0.00042	0.00000	0.00000	0.02739	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.15285	0.00001	0.00000	0.00000	0.00000	0.01919	0.00002	0.00002	0.01740	0.00597
651356	5870439	C205	0.47	0.00000	0.03759	0.00001	0.00041	0.00000	0.00000	0.02731	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.15243	0.00001	0.00000	0.00000	0.00000	0.01914	0.00002	0.00002	0.01735	0.00596
651157	5870971	C206	0.46	0.00000	0.03733	0.00001	0.00041	0.00000	0.00000	0.02712	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.15139	0.00001	0.00000	0.00000	0.00000	0.01901	0.00002	0.00002	0.01723	0.00592
651172	5870889	C207	0.46	0.00000	0.03743	0.00001	0.00041	0.00000	0.00000	0.02720	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.15181	0.00001	0.00000	0.00000	0.00000	0.01906	0.00002	0.00002	0.01728	0.00593
651287	5870887	C208	0.45	0.00000	0.03658	0.00001	0.00040	0.00000	0.00000	0.02658	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.14833	0.00001	0.00000	0.00000	0.00000	0.01862	0.00002	0.00002	0.01688	0.00580
651278	5870756	C209	0.46	0.00000	0.03713	0.00001	0.00041	0.00000	0.00000	0.02698	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.15059	0.00001	0.00000	0.00000	0.00000	0.01891	0.00002	0.00002	0.01714	0.00589
651334	5870667	C210	0.46	0.00000	0.03699	0.00001	0.00041	0.00000	0.00000	0.02688	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.15003	0.00001	0.00000	0.00000	0.00000	0.01884	0.00002	0.00002	0.01708	0.00586
651541	5870880	C211	0.44	0.00000	0.03586	0.00001	0.00039	0.00000	0.00000	0.02605	0.00000	0.00004	0.00002	0.00010	0.00000	0.00007	0.14542	0.00001	0.00000	0.00000	0.00000	0.01826	0.00002	0.00002	0.01655	0.00568
651555	5870971	C212	0.44	0.00000	0.03558	0.00001	0.00039	0.00000	0.00000	0.02585	0.00000	0.00004	0.00001	0.00010	0.00000	0.00007	0.14429	0.00001	0.00000	0.00000	0.00000	0.01812	0.00002	0.00002	0.01642	0.00564
651664	5872079	C213	0.41	0.00000	0.03351	0.00001	0.00037	0.00000	0.00000	0.02435	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13591	0.00001	0.00000	0.00000	0.00000	0.01706	0.00002	0.00002	0.01547	0.00531
651168	5872216	C214	0.43	0.00000	0.03442	0.00001	0.00038	0.00000	0.00000	0.02501	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13960	0.00001	0.00000	0.00000	0.00000	0.01753	0.00002	0.00002	0.01589	0.00546
651309	5872616	C215	0.41	0.00000	0.03323	0.00001	0.00037	0.00000	0.00000	0.02414	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13475	0.00001	0.00000	0.00000	0.00000	0.01692	0.00002	0.00002	0.01534	0.00527
651406	5872687	C216	0.41	0.00000	0.03288	0.00001	0.00036	0.00000	0.00000	0.02389	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13335	0.00001	0.00000	0.00000	0.00000	0.01674	0.00002	0.00002	0.01518	0.00521
651702	5872788	C217	0.40	0.00000	0.03205	0.00001	0.00035	0.00000	0.00000	0.02329	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.12997	0.00001	0.00000	0.00000	0.00000	0.01632	0.00002	0.00002	0.01479	0.00508
652123	5872653	C218	0.39	0.00000	0.03143	0.00001	0.00035	0.00000	0.00000	0.02284	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.12746	0.00001	0.00000	0.00000	0.00000	0.01600	0.00002	0.00002	0.01451	0.00498
652137	5872385	C219	0.39	0.00000	0.03184	0.00001	0.00035	0.00000	0.00000	0.02314	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.12914	0.00001	0.00000	0.00000	0.00000	0.01621	0.00002	0.00002	0.01470	0.00505
651902	5872256	C220	0.40	0.00000	0.03264	0.00001	0.00036	0.00000	0.00000	0.02372	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13237	0.00001	0.00000	0.00000	0.00000	0.01662	0.00002	0.00002	0.01507	0.00517
652139	5871372	C221	0.41	0.00000	0.03326	0.00001	0.00037	0.00000	0.00000	0.02416	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13487	0.00001	0.00000	0.00000	0.00000	0.01693	0.00002	0.00002	0.01535	0.00527
652202	5871434	C222	0.41	0.00000	0.03298	0.00001	0.00036	0.00000	0.00000	0.02396	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.13373	0.00001	0.00000	0.00000	0.00000	0.01679	0.00002	0.00002	0.01522	0.00523
652479	5871780	C223	0.39	0.00000	0.03172	0.00001	0.00035	0.00000	0.00000	0.02305	0.00000	0.00004	0.00001	0.00009	0.00000	0.00006	0.12865	0.00001	0.00000	0.00000	0.00000	0.01615	0.00002	0.00002	0.01464	0.00503
652688	5871967	C224	0.38	0.00000	0.03095	0.00001	0.00034	0.00000	0.00000	0.02249	0.00000	0.00004	0.00001	0.00008	0.00000	0.00006	0.12553	0.00001	0.00000	0.00000	0.00000	0.01576	0.00002	0.00002	0.01429	0.00491
653634	5871447	C225	0.37	0.00000	0.02989	0.00001	0.00033	0.00000	0.00000	0.02172	0.00000	0.00003	0.00001	0.00008	0.00000	0.00006	0.12122	0.00001	0.00000	0.00000	0.00000	0.01522	0.00002	0.00002	0.01380	0.00474
654237	5871709	C226	0.35	0.00000	0.02827	0.00001	0.00031	0.00000	0.00000	0.02054	0.00000	0.00003	0.00001	0.00008	0.00000	0.00005	0.11464	0.00001	0.00000	0.00000	0.00000	0.01439	0.00002	0.00001	0.01305	0.00448
654126	5871774	C227	0.35	0.00000	0.02832	0.00001	0.00031	0.00000	0.00000	0.02057	0.00000	0.00003	0.00001	0.00008	0.00000	0.00005	0.11484	0.00001	0.00000	0.00000	0.00000	0.01442	0.00002	0.00001	0.01307	0.00449
654058	5871822	C228	0.35	0.00000	0.02836	0.00001	0.00031	0.00000	0.00000	0.02060	0.00000	0.00003	0.00001	0.00008	0.00000	0.00005	0.11501	0.00001	0.00000	0.00000	0.00000	0.01444	0.00002	0.00001	0.01309	0.00450
653897	5872230	C229	0.35	0.00000	0.02797	0.00001	0.00031	0.00000	0.00000	0.02032	0.00000	0.00003	0.00001	0.00008	0.00000	0.00005	0.11342	0.00001	0.00000	0.00000	0.00000	0.01424	0.00002	0.00001	0.01291	0.00443
653958	5872375	C230	0.34	0.00000	0.02760	0.00001	0.00030	0.00000	0.00000	0.02005	0.00000	0.00003	0.00001	0.00008	0.00000	0.00005	0.11193	0.00001	0.00000	0.00000	0.00000	0.01405	0.00002	0.00001	0.01274	0.00437
653813	5872764	C231	0.34	0.00000	0.02736	0.00001	0.00030	0.00000	0.00000	0.01988	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.11096	0.00001	0.00000	0.00000	0.00000	0.01393	0.00002	0.00001	0.01263	0.00434
654316	5873211	C232	0.32	0.00000	0.02585	0.00000	0.00028	0.00000	0.00000	0.01878	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10482	0.00001	0.00000	0.00000	0.00000	0.01316	0.00002	0.00001	0.01193	0.00410
654464	5873391	C233	0.31	0.00000	0.02515	0.00000	0.00028	0.00000	0.00000	0.01827	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10198	0.00001	0.00000	0.00000	0.00000	0.01280	0.00001	0.00001	0.01161	0.00399
654568	5873147	C234	0.31	0.00000	0.02533	0.00000	0.00028	0.00000	0.00000	0.01841	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10274	0.00001	0.00000	0.00000	0.00000	0.01290	0.00001	0.00001	0.01169	0.00402
654435	5873112	C235	0.32	0.00000	0.02579	0.00000	0.00028	0.00000	0.00000	0.01874	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10459	0.00001	0.00000	0.00000	0.00000	0.01313	0.00002	0.00001	0.01190	0.00409
654502	5873072	C236	0.32	0.00000	0.02563	0.00000	0.00028	0.00000	0.00000	0.01863	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10396	0.00001	0.00000	0.00000	0.00000	0.01305	0.00002	0.00001	0.01183	0.00406
654560	5873037	C237	0.32	0.00000	0.02552	0.00000	0.00028	0.00000	0.00000	0.01854	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10348	0.00001	0.00000	0.00000	0.00000	0.01299	0.00001	0.00001	0.01178	0.00404
654417	5873018	C238	0.32	0.00000	0.02597	0.00000	0.00029	0.00000	0.00000	0.01887	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10533	0.00001	0.00000	0.00000	0.00000	0.01323	0.00002	0.00001	0.01199	0.00412
654533	5872976	C239	0.32	0.00000	0.02573	0.00000	0.00028	0.00000	0.00000	0.01869	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10433	0.00001	0.00000	0.00000	0.00000	0.01310	0.00002	0.00001	0.01187	0.00408
654475	5872843	C240	0.32	0.00000	0.02608	0.00000	0.00029	0.00000	0.00000	0.01895	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10575	0.00001	0.00000	0.00000	0.00000	0.01328	0.00002	0.00001	0.01204	0.00413
654527	5872824	C241	0.32	0.00000	0.02597	0.00000	0.00029	0.00000	0.00000	0.01887	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10534	0.00001	0.00000	0.00000	0.00000	0.01323	0.00002	0.00001	0.01199	0.00412
654585	5872884	C242	0.32	0.00000	0.02570	0.00000	0.00028	0.00000	0.00000	0.01867	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10422	0.00001	0.00000	0.00000	0.00000	0.01309	0.00002	0.00001	0.01186	0.00407
654712	5872759	C243	0.31	0.00000	0.02546	0.00000	0.00028	0.00000	0.00000	0.01850	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10324	0.00001	0.00000	0.00000	0.00000	0.01296	0.00001	0.00001	0.01175	0.00404
654603	5872652	C244	0.32	0.00000	0.02613	0.00000	0.00029	0.00000	0.00000	0.01899	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10597	0.00001	0.00000	0.00000	0.00000	0.01331	0.00002	0.00001	0.01206	0.00414
654615	5872495	C245	0.33	0.00000	0.02634	0.00001	0.00029	0.00000	0.00000	0.01914	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10681	0.00001	0.00000	0.00000	0.00000	0.01341	0.00002	0.00001	0.01216	0.00417
654701	5872347	C246	0.33	0.00000	0.02640	0.00001	0.00029	0.00000	0.00000	0.01918	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10707	0.00001	0.00000	0.00000	0.00000	0.01344	0.00002	0.00001	0.01219	0.00419
654827	5872301	C247	0.32	0.00000	0.02610	0.00000	0.00029	0.00000	0.00000	0.01897	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10586	0.00001	0.00000	0.00000	0.00000	0.01329	0.00002	0.00001	0.01205	0.00414
654883	5872208	C248	0.32	0.00000	0.02615	0.00000	0.00029	0.00000	0.00000	0.01900	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10604	0.00001	0.00000	0.00000	0.00000	0.01331	0.00002	0.00001	0.01207	0.00414
654891	5872150	C249	0.32	0.00000	0.02621	0.00001	0.00029	0.00000	0.00000	0.01904	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10629	0.00001	0.00000	0.00000	0.00000	0.01335	0.00002	0.00001	0.01210	0.00415
654759	5872177	C250	0.33	0.00000	0.02658	0.00001	0.00029	0.00000	0.00000	0.01931	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10779	0.00001	0.00000	0.00000	0.00000	0.01353	0.00002	0.00001	0.01227	0.00421
654788	5872127	C251	0.33	0.00000	0.02662	0.00001	0.00029	0.00000	0.00000	0.01934	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10797	0.00001	0.00000	0.00000	0.00000	0.01356	0.00002	0.00001	0.01229	0.00422
655144	5871118	C252	0.34	0.00000	0.02747	0.00001	0.00030	0.00000	0.00000	0.01996	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.11140	0.00001	0.00000	0.00000	0.00000	0.01399	0.00002	0.00001	0.01268	0.00435
648102	5875979	C253	0.35	0.00000	0.02813	0.00001	0.00031	0.00000	0.00000	0.02044	0.00000	0.00003	0.00001	0.00008	0.00000	0.00005	0.11408	0.00001	0.00000	0.00000	0.00000	0.01432	0.00002	0.00001	0.01298	0.00446
651945	5874721	C254	0.34	0.00000	0.02717	0.00001	0.00030	0.00000	0.00000	0.01974	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.11020	0.00001	0.00000	0.00000	0.00000	0.01384	0.00002	0.00001	0.01254	0.00431

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
652653	5874100	C255	0.34	0.00000	0.02768	0.00001	0.00030	0.00000	0.00000	0.02011	0.00000	0.00003	0.00001	0.00008	0.00000	0.00005	0.11226	0.00001	0.00000	0.00000	0.00000	0.01410	0.00002	0.00001	0.01278	0.00439
653035	5874384	C256	0.33	0.00000	0.02650	0.00001	0.00029	0.00000	0.00000	0.01926	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10748	0.00001	0.00000	0.00000	0.00000	0.01350	0.00002	0.00001	0.01223	0.00420
653048	5874439	C257	0.33	0.00000	0.02637	0.00001	0.00029	0.00000	0.00000	0.01916	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10696	0.00001	0.00000	0.00000	0.00000	0.01343	0.00002	0.00001	0.01217	0.00418
653058	5874488	C258	0.32	0.00000	0.02626	0.00001	0.00029	0.00000	0.00000	0.01908	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10651	0.00001	0.00000	0.00000	0.00000	0.01337	0.00002	0.00001	0.01212	0.00416
653088	5874541	C259	0.32	0.00000	0.02611	0.00000	0.00029	0.00000	0.00000	0.01897	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10590	0.00001	0.00000	0.00000	0.00000	0.01330	0.00002	0.00001	0.01205	0.00414
653119	5874586	C260	0.32	0.00000	0.02597	0.00000	0.00029	0.00000	0.00000	0.01887	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10534	0.00001	0.00000	0.00000	0.00000	0.01323	0.00002	0.00001	0.01199	0.00412
653053	5874685	C261	0.32	0.00000	0.02589	0.00000	0.00029	0.00000	0.00000	0.01881	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10501	0.00001	0.00000	0.00000	0.00000	0.01319	0.00002	0.00001	0.01195	0.00410
653419	5874771	C262	0.31	0.00000	0.02518	0.00000	0.00028	0.00000	0.00000	0.01829	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10210	0.00001	0.00000	0.00000	0.00000	0.01282	0.00001	0.00001	0.01162	0.00399
653624	5874867	C263	0.31	0.00000	0.02476	0.00000	0.00027	0.00000	0.00000	0.01799	0.00000	0.00003	0.00001	0.00007	0.00000	0.00005	0.10040	0.00001	0.00000	0.00000	0.00000	0.01261	0.00001	0.00001	0.01143	0.00392
653740	5875312	C264	0.29	0.00000	0.02348	0.00000	0.00026	0.00000	0.00000	0.01706	0.00000	0.00003	0.00001	0.00006	0.00000	0.00004	0.09520	0.00001	0.00000	0.00000	0.00000	0.01195	0.00001	0.00001	0.01084	0.00372
653331	5875587	C265	0.29	0.00000	0.02346	0.00000	0.00026	0.00000	0.00000	0.01705	0.00000	0.00003	0.00001	0.00006	0.00000	0.00004	0.09514	0.00001	0.00000	0.00000	0.00000	0.01195	0.00001	0.00001	0.01083	0.00372
653431	5876074	C266	0.28	0.00000	0.02224	0.00000	0.00024	0.00000	0.00000	0.01616	0.00000	0.00003	0.00001	0.00006	0.00000	0.00004	0.09018	0.00001	0.00000	0.00000	0.00000	0.01132	0.00001	0.00001	0.01026	0.00352
652687	5876590	C267	0.27	0.00000	0.02176	0.00000	0.00024	0.00000	0.00000	0.01581	0.00000	0.00003	0.00001	0.00006	0.00000	0.00004	0.08825	0.00001	0.00000	0.00000	0.00000	0.01108	0.00001	0.00001	0.01004	0.00345
653006	5877664	C268	0.23	0.00000	0.01833	0.00000	0.00020	0.00000	0.00000	0.01332	0.00000	0.00002	0.00001	0.00005	0.00000	0.00003	0.07434	0.00001	0.00000	0.00000	0.00000	0.00933	0.00001	0.00001	0.00846	0.00291
652913	5878002	C269	0.22	0.00000	0.01741	0.00000	0.00019	0.00000	0.00000	0.01265	0.00000	0.00002	0.00001	0.00005	0.00000	0.00003	0.07059	0.00000	0.00000	0.00000	0.00000	0.00886	0.00001	0.00001	0.00803	0.00276
654087	5876771	C270	0.25	0.00000	0.01995	0.00000	0.00022	0.00000	0.00000	0.01449	0.00000	0.00002	0.00001	0.00005	0.00000	0.00004	0.08089	0.00001	0.00000	0.00000	0.00000	0.01016	0.00001	0.00001	0.00921	0.00316
654390	5876812	C271	0.24	0.00000	0.01952	0.00000	0.00021	0.00000	0.00000	0.01418	0.00000	0.00002	0.00001	0.00005	0.00000	0.00004	0.07917	0.00001	0.00000	0.00000	0.00000	0.00994	0.00001	0.00001	0.00901	0.00309
654516	5876861	C272	0.24	0.00000	0.01930	0.00000	0.00021	0.00000	0.00000	0.01402	0.00000	0.00002	0.00001	0.00005	0.00000	0.00004	0.07827	0.00001	0.00000	0.00000	0.00000	0.00983	0.00001	0.00001	0.00891	0.00306
654613	5877129	C273	0.23	0.00000	0.01860	0.00000	0.00020	0.00000	0.00000	0.01352	0.00000	0.00002	0.00001	0.00005	0.00000	0.00003	0.07544	0.00001	0.00000	0.00000	0.00000	0.00947	0.00001	0.00001	0.00859	0.00295
654712	5877345	C274	0.22	0.00000	0.01804	0.00000	0.00020	0.00000	0.00000	0.01311	0.00000	0.00002	0.00001	0.00005	0.00000	0.00003	0.07318	0.00000	0.00000	0.00000	0.00000	0.00919	0.00001	0.00001	0.00833	0.00286
655194	5877509	C275	0.21	0.00000	0.01711	0.00000	0.00019	0.00000	0.00000	0.01243	0.00000	0.00002	0.00001	0.00005	0.00000	0.00003	0.06940	0.00000	0.00000	0.00000	0.00000	0.00871	0.00001	0.00001	0.00790	0.00271
655948	5877716	C276	0.19	0.00000	0.01572	0.00000	0.00017	0.00000	0.00000	0.01142	0.00000	0.00002	0.00001	0.00004	0.00000	0.00003	0.06374	0.00000	0.00000	0.00000	0.00000	0.00800	0.00001	0.00001	0.00726	0.00249
655845	5877809	C277	0.19	0.00000	0.01562	0.00000	0.00017	0.00000	0.00000	0.01135	0.00000	0.00002	0.00001	0.00004	0.00000	0.00003	0.06334	0.00000	0.00000	0.00000	0.00000	0.00795	0.00001	0.00001	0.00721	0.00248
655662	5878268	C278	0.18	0.00000	0.01480	0.00000	0.00016	0.00000	0.00000	0.01075	0.00000	0.00002	0.00001	0.00004	0.00000	0.00003	0.06003	0.00000	0.00000	0.00000	0.00000	0.00754	0.00001	0.00001	0.00683	0.00235
655612	5878362	C279	0.18	0.00000	0.01463	0.00000	0.00016	0.00000	0.00000	0.01063	0.00000	0.00002	0.00001	0.00004	0.00000	0.00003	0.05931	0.00000	0.00000	0.00000	0.00000	0.00745	0.00001	0.00001	0.00675	0.00232
655714	5878551	C280	0.17	0.00000	0.01404	0.00000	0.00015	0.00000	0.00000	0.01020	0.00000	0.00002	0.00001	0.00004	0.00000	0.00003	0.05692	0.00000	0.00000	0.00000	0.00000	0.00715	0.00001	0.00001	0.00648	0.00222
655750	5879082	C281	0.16	0.00000	0.01265	0.00000	0.00014	0.00000	0.00000	0.00919	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.05131	0.00000	0.00000	0.00000	0.00000	0.00644	0.00001	0.00001	0.00584	0.00201
655705	5879176	C282	0.15	0.00000	0.01239	0.00000	0.00014	0.00000	0.00000	0.00900	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.05025	0.00000	0.00000	0.00000	0.00000	0.00631	0.00001	0.00001	0.00572	0.00196
655698	5879229	C283	0.15	0.00000	0.01225	0.00000	0.00013	0.00000	0.00000	0.00890	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04970	0.00000	0.00000	0.00000	0.00000	0.00624	0.00001	0.00001	0.00566	0.00194
655692	5879276	C284	0.15	0.00000	0.01214	0.00000	0.00013	0.00000	0.00000	0.00882	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04923	0.00000	0.00000	0.00000	0.00000	0.00618	0.00001	0.00001	0.00560	0.00192
655687	5879312	C285	0.15	0.00000	0.01206	0.00000	0.00013	0.00000	0.00000	0.00876	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04890	0.00000	0.00000	0.00000	0.00000	0.00614	0.00001	0.00001	0.00557	0.00191
655663	5879335	C286	0.15	0.00000	0.01200	0.00000	0.00013	0.00000	0.00000	0.00872	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04865	0.00000	0.00000	0.00000	0.00000	0.00611	0.00001	0.00001	0.00554	0.00190
655586	5879390	C287	0.15	0.00000	0.01189	0.00000	0.00013	0.00000	0.00000	0.00864	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04823	0.00000	0.00000	0.00000	0.00000	0.00606	0.00001	0.00001	0.00549	0.00189
655568	5879451	C288	0.15	0.00000	0.01172	0.00000	0.00013	0.00000	0.00000	0.00852	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04753	0.00000	0.00000	0.00000	0.00000	0.00597	0.00001	0.00001	0.00541	0.00186
655536	5879531	C289	0.14	0.00000	0.01154	0.00000	0.00013	0.00000	0.00000	0.00838	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04679	0.00000	0.00000	0.00000	0.00000	0.00587	0.00001	0.00001	0.00533	0.00183
655510	5879565	C290	0.14	0.00000	0.01145	0.00000	0.00013	0.00000	0.00000	0.00832	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04642	0.00000	0.00000	0.00000	0.00000	0.00583	0.00001	0.00001	0.00528	0.00181
655522	5879635	C291	0.14	0.00000	0.01126	0.00000	0.00012	0.00000	0.00000	0.00818	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04565	0.00000	0.00000	0.00000	0.00000	0.00573	0.00001	0.00001	0.00520	0.00178
655470	5879667	C292	0.14	0.00000	0.01118	0.00000	0.00012	0.00000	0.00000	0.00812	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04533	0.00000	0.00000	0.00000	0.00000	0.00569	0.00001	0.00001	0.00516	0.00177
655759	5879806	C293	0.13	0.00000	0.01061	0.00000	0.00012	0.00000	0.00000	0.00771	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04301	0.00000	0.00000	0.00000	0.00000	0.00540	0.00001	0.00001	0.00490	0.00168
655849	5879887	C294	0.13	0.00000	0.01033	0.00000	0.00011	0.00000	0.00000	0.00751	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04190	0.00000	0.00000	0.00000	0.00000	0.00526	0.00001	0.00001	0.00477	0.00164
655904	5879874	C295	0.13	0.00000	0.01032	0.00000	0.00011	0.00000	0.00000	0.00750	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04184	0.00000	0.00000	0.00000	0.00000	0.00525	0.00001	0.00001	0.00476	0.00164
655920	5879833	C296	0.13	0.00000	0.01043	0.00000	0.00011	0.00000	0.00000	0.00758	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04230	0.00000	0.00000	0.00000	0.00000	0.00531	0.00001	0.00001	0.00481	0.00165
655937	5879788	C297	0.13	0.00000	0.01055	0.00000	0.00012	0.00000	0.00000	0.00767	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04280	0.00000	0.00000	0.00000	0.00000	0.00537	0.00001	0.00001	0.00487	0.00167
655959	5879743	C298	0.13	0.00000	0.01063	0.00000	0.00012	0.00000	0.00000	0.00773	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04313	0.00000	0.00000	0.00000	0.00000	0.00542	0.00001	0.00001	0.00491	0.00169
655981	5879336	C299	0.15	0.00000	0.01173	0.00000	0.00013	0.00000	0.00000	0.00852	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04756	0.00000	0.00000	0.00000	0.00000	0.00597	0.00001	0.00001	0.00541	0.00186
656134	5879093	C300	0.15	0.00000	0.01224	0.00000	0.00013	0.00000	0.00000	0.00890	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04965	0.00000	0.00000	0.00000	0.00000	0.00623	0.00001	0.00001	0.00565	0.00194
656122	5879037	C301	0.15	0.00000	0.01240	0.00000	0.00014	0.00000	0.00000	0.00901	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.05029	0.00000	0.00000	0.00000	0.00000	0.00632	0.00001	0.00001	0.00572	0.00197
656200	5878850	C302	0.16	0.00000	0.01281	0.00000	0.00014	0.00000	0.00000	0.00931	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.05195	0.00000	0.00000	0.00000	0.00000	0.00652	0.00001	0.00001	0.00591	0.00203
656222	5878811	C303	0.16	0.00000	0.01290	0.00000	0.00014	0.00000	0.00000	0.00938	0.00000	0.00001	0.00001	0.00004	0.00000	0.00002	0.05233	0.00000	0.00000	0.00000	0.00000	0.00657	0.00001	0.00001	0.00596	0.00205
656264	5878773	C304	0.16	0.00000	0.01296	0.00000	0.00014	0.00000	0.00000	0.00942	0.00000	0.00001	0.00001	0.00004	0.00000	0.00002	0.05258	0.00000	0.00000	0.00000	0.00000	0.00660	0.00001	0.00001	0.00598	0.00205
656283	5878750	C305	0.16	0.00000	0.01301	0.00000	0.00014	0.00000	0.00000	0.00945	0.00000	0.00001	0.00001	0.00004	0.00000	0.00002	0.05276	0.00000	0.00000	0.00000	0.00000	0.00662	0.00001	0.00001	0.00600	0.00206
656569	5878718	C306	0.16	0.00000	0.01277	0.00000	0.00014	0.00000	0.00000	0.00928	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.05178	0.00000	0.00000	0.00000	0.00000	0.00650	0.00001	0.00001	0.00589	0.00202
656610	5878724	C307	0.16	0.00000	0.01270	0.00000	0.00014	0.00000	0.00000	0.00923	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.05152	0.00000	0.00000	0.00000	0.00000	0.00647	0.00001	0.00001	0.00586	0.00201
656672	5878658	C308	0.16	0.00000	0.01279	0.00000	0.00014	0.00000	0.00000	0.00929	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.05188	0.00000	0.00000	0.00000	0.00000	0.00651	0.00001	0.00001	0.00590	0.00203
656727	5878687	C309	0.16	0.00000	0.01264	0.00000	0.00014	0.00000	0.00000	0.00918	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.05126	0.00000	0.00000	0.00000	0.00000	0.00644	0.00001	0.00001	0.00583	0.00200
657116	5878638	C310	0.15	0.00000	0.01227	0.00000	0.00014	0.00000	0.00000	0.00892	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04977	0.00000	0.00000	0.00000	0.00000	0.00625	0.00001	0.00001	0.00566	0.00195

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
657218	5878747	C311	0.15	0.00000	0.01193	0.00000	0.00013	0.00000	0.00000	0.00867	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04837	0.00000	0.00000	0.00000	0.00000	0.00607	0.00001	0.00001	0.00551	0.00189
656827	5878816	C312	0.15	0.00000	0.01224	0.00000	0.00013	0.00000	0.00000	0.00889	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04962	0.00000	0.00000	0.00000	0.00000	0.00623	0.00001	0.00001	0.00565	0.00194
656811	5878856	C313	0.15	0.00000	0.01218	0.00000	0.00013	0.00000	0.00000	0.00885	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04941	0.00000	0.00000	0.00000	0.00000	0.00620	0.00001	0.00001	0.00562	0.00193
656761	5878872	C314	0.15	0.00000	0.01218	0.00000	0.00013	0.00000	0.00000	0.00885	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04940	0.00000	0.00000	0.00000	0.00000	0.00620	0.00001	0.00001	0.00562	0.00193
656749	5878923	C315	0.15	0.00000	0.01210	0.00000	0.00013	0.00000	0.00000	0.00879	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04909	0.00000	0.00000	0.00000	0.00000	0.00616	0.00001	0.00001	0.00559	0.00192
656727	5878962	C316	0.15	0.00000	0.01204	0.00000	0.00013	0.00000	0.00000	0.00874	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04881	0.00000	0.00000	0.00000	0.00000	0.00613	0.00001	0.00001	0.00556	0.00191
656706	5879002	C317	0.15	0.00000	0.01197	0.00000	0.00013	0.00000	0.00000	0.00869	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04853	0.00000	0.00000	0.00000	0.00000	0.00609	0.00001	0.00001	0.00552	0.00190
656675	5879036	C318	0.15	0.00000	0.01191	0.00000	0.00013	0.00000	0.00000	0.00866	0.00000	0.00001	0.00001	0.00003	0.00000	0.00002	0.04831	0.00000	0.00000	0.00000	0.00000	0.00607	0.00001	0.00001	0.00550	0.00189
656652	5879085	C319	0.15	0.00000	0.01180	0.00000	0.00013	0.00000	0.00000	0.00857	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04785	0.00000	0.00000	0.00000	0.00000	0.00601	0.00001	0.00001	0.00545	0.00187
656636	5879131	C320	0.14	0.00000	0.01171	0.00000	0.00013	0.00000	0.00000	0.00851	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04750	0.00000	0.00000	0.00000	0.00000	0.00596	0.00001	0.00001	0.00541	0.00186
656387	5879799	C321	0.13	0.00000	0.01021	0.00000	0.00011	0.00000	0.00000	0.00742	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04140	0.00000	0.00000	0.00000	0.00000	0.00520	0.00001	0.00001	0.00471	0.00162
656370	5879851	C322	0.12	0.00000	0.01009	0.00000	0.00011	0.00000	0.00000	0.00733	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04092	0.00000	0.00000	0.00000	0.00000	0.00514	0.00001	0.00001	0.00466	0.00160
656353	5879896	C323	0.12	0.00000	0.00998	0.00000	0.00011	0.00000	0.00000	0.00725	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04048	0.00000	0.00000	0.00000	0.00000	0.00508	0.00001	0.00001	0.00461	0.00158
653229	5878711	C324	0.19	0.00000	0.01505	0.00000	0.00017	0.00000	0.00000	0.01093	0.00000	0.00002	0.00001	0.00004	0.00000	0.00003	0.06103	0.00000	0.00000	0.00000	0.00000	0.00766	0.00001	0.00001	0.00695	0.00239
659194	5877695	C325	0.14	0.00000	0.01127	0.00000	0.00012	0.00000	0.00000	0.00819	0.00000	0.00001	0.00000	0.00003	0.00000	0.00002	0.04569	0.00000	0.00000	0.00000	0.00000	0.00574	0.00001	0.00001	0.00520	0.00179
659742	5879642	C326	0.09	0.00000	0.00741	0.00000	0.00008	0.00000	0.00000	0.00538	0.00000	0.00001	0.00000	0.00002	0.00000	0.00001	0.03004	0.00000	0.00000	0.00000	0.00000	0.00377	0.00000	0.00000	0.00342	0.00117
659782	5879684	C327	0.09	0.00000	0.00729	0.00000	0.00008	0.00000	0.00000	0.00530	0.00000	0.00001	0.00000	0.00002	0.00000	0.00001	0.02958	0.00000	0.00000	0.00000	0.00000	0.00371	0.00000	0.00000	0.00337	0.00116
659872	5879695	C328	0.09	0.00000	0.00716	0.00000	0.00008	0.00000	0.00000	0.00521	0.00000	0.00001	0.00000	0.00002	0.00000	0.00001	0.02905	0.00000	0.00000	0.00000	0.00000	0.00365	0.00000	0.00000	0.00331	0.00114
660349	5879906	C329	0.08	0.00000	0.00631	0.00000	0.00007	0.00000	0.00000	0.00458	0.00000	0.00001	0.00000	0.00002	0.00000	0.00001	0.02557	0.00000	0.00000	0.00000	0.00000	0.00321	0.00000	0.00000	0.00291	0.00100
660518	5879947	C330	0.08	0.00000	0.00607	0.00000	0.00007	0.00000	0.00000	0.00441	0.00000	0.00001	0.00000	0.00002	0.00000	0.00001	0.02460	0.00000	0.00000	0.00000	0.00000	0.00309	0.00000	0.00000	0.00280	0.00096
661421	5879718	C331	0.07	0.00000	0.00534	0.00000	0.00006	0.00000	0.00000	0.00388	0.00000	0.00001	0.00000	0.00001	0.00000	0.00001	0.02167	0.00000	0.00000	0.00000	0.00000	0.00272	0.00000	0.00000	0.00247	0.00085
661493	5879729	C332	0.06	0.00000	0.00525	0.00000	0.00006	0.00000	0.00000	0.00381	0.00000	0.00001	0.00000	0.00001	0.00000	0.00001	0.02127	0.00000	0.00000	0.00000	0.00000	0.00267	0.00000	0.00000	0.00242	0.00083
646105	5852102	C333	2.83	0.00000	0.22910	0.00004	0.00252	0.00001	0.00000	0.16646	0.00001	0.00026	0.00010	0.00062	0.00002	0.00043	0.92910	0.00006	0.00000	0.00001	0.00000	0.11666	0.00013	0.00012	0.10575	0.03632
647139	5852170	C334	2.62	0.00000	0.21167	0.00004	0.00233	0.00001	0.00000	0.15380	0.00001	0.00024	0.00009	0.00058	0.00002	0.00039	0.85843	0.00006	0.00000	0.00001	0.00000	0.10779	0.00012	0.00011	0.09771	0.03355
643788	5855912	C335	4.27	0.00000	0.34538	0.00007	0.00380	0.00001	0.00000	0.25095	0.00001	0.00040	0.00015	0.00094	0.00003	0.00064	1.40068	0.00010	0.00000	0.00002	0.00000	0.17588	0.00020	0.00018	0.15942	0.05475
641867	5855100	C336	9.88	0.00001	0.79896	0.00015	0.00880	0.00003	0.00001	0.58051	0.00003	0.00092	0.00034	0.00217	0.00008	0.00148	3.24010	0.00022	0.00000	0.00005	0.00000	0.40684	0.00047	0.00041	0.36879	0.12664
642951	5852301	C337	4.95	0.00001	0.40021	0.00008	0.00441	0.00002	0.00000	0.29078	0.00002	0.00046	0.00017	0.00109	0.00004	0.00074	1.62301	0.00011	0.00000	0.00003	0.00000	0.20379	0.00023	0.00021	0.18473	0.06344
640185	5848135	C338	4.17	0.00000	0.33727	0.00006	0.00371	0.00001	0.00000	0.24506	0.00001	0.00039	0.00014	0.00092	0.00003	0.00063	1.36779	0.00009	0.00000	0.00002	0.00000	0.17175	0.00020	0.00017	0.15568	0.05346
643735	5844087	C339	1.45	0.00000	0.11702	0.00002	0.00129	0.00000	0.00000	0.08503	0.00000	0.00013	0.00005	0.00032	0.00001	0.00022	0.47457	0.00003	0.00000	0.00001	0.00000	0.05959	0.00007	0.00006	0.05401	0.01855
643567	5839358	C340	0.83	0.00000	0.06697	0.00001	0.00074	0.00000	0.00000	0.04866	0.00000	0.00008	0.00003	0.00018	0.00001	0.00012	0.27160	0.00002	0.00000	0.00000	0.00000	0.03410	0.00004	0.00003	0.03091	0.01062
634702	5859483	C341	7.10	0.00001	0.57414	0.00011	0.00632	0.00002	0.00000	0.41716	0.00002	0.00066	0.00024	0.00156	0.00006	0.00107	2.32836	0.00016	0.00000	0.00004	0.00000	0.29236	0.00034	0.00030	0.26501	0.09101
634666	5859995	C342	5.77	0.00001	0.46613	0.00009	0.00513	0.00002	0.00000	0.33869	0.00002	0.00054	0.00020	0.00127	0.00005	0.00087	1.89037	0.00013	0.00000	0.00003	0.00000	0.23736	0.00027	0.00024	0.21516	0.07389
634659	5860951	C343	3.92	0.00000	0.31701	0.00006	0.00349	0.00001	0.00000	0.23033	0.00001	0.00036	0.00013	0.00086	0.00003	0.00059	1.28560	0.00009	0.00000	0.00002	0.00000	0.16143	0.00019	0.00016	0.14633	0.05025
632662	5861641	C344	5.15	0.00001	0.41631	0.00008	0.00458	0.00002	0.00000	0.30248	0.00002	0.00048	0.00018	0.00113	0.00004	0.00077	1.68831	0.00011	0.00000	0.00003	0.00000	0.21199	0.00024	0.00021	0.19216	0.06599
632659	5861856	C345	4.81	0.00001	0.38908	0.00007	0.00428	0.00002	0.00000	0.28270	0.00002	0.00045	0.00016	0.00106	0.00004	0.00072	1.57790	0.00011	0.00000	0.00002	0.00000	0.19813	0.00023	0.00020	0.17960	0.06167
633647	5862664	C346	2.79	0.00000	0.22513	0.00004	0.00248	0.00001	0.00000	0.16357	0.00001	0.00026	0.00009	0.00061	0.00002	0.00042	0.91298	0.00006	0.00000	0.00001	0.00000	0.11464	0.00013	0.00012	0.10392	0.03569
634888	5860864	C347	4.00	0.00000	0.32295	0.00006	0.00356	0.00001	0.00000	0.23465	0.00001	0.00037	0.00014	0.00088	0.00003	0.00060	1.30971	0.00009	0.00000	0.00002	0.00000	0.16445	0.00019	0.00017	0.14907	0.05119
634890	5860888	C348	3.96	0.00000	0.31985	0.00006	0.00352	0.00001	0.00000	0.23240	0.00001	0.00037	0.00013	0.00087	0.00003	0.00059	1.29711	0.00009	0.00000	0.00002	0.00000	0.16287	0.00019	0.00016	0.14764	0.05070
635091	5860937	C349	3.77	0.00000	0.30488	0.00006	0.00336	0.00001	0.00000	0.22152	0.00001	0.00035	0.00013	0.00083	0.00003	0.00057	1.23641	0.00008	0.00000	0.00002	0.00000	0.15525	0.00018	0.00016	0.14073	0.04833
635065	5860944	C350	3.78	0.00000	0.30592	0.00006	0.00337	0.00001	0.00000	0.22227	0.00001	0.00035	0.00013	0.00083	0.00003	0.00057	1.24062	0.00008	0.00000	0.00002	0.00000	0.15578	0.00018	0.00016	0.14121	0.04849
635052	5860976	C351	3.76	0.00000	0.30415	0.00006	0.00335	0.00001	0.00000	0.22099	0.00001	0.00035	0.00013	0.00083	0.00003	0.00056	1.23344	0.00008	0.00000	0.00002	0.00000	0.15488	0.00018	0.00016	0.14039	0.04821
634970	5860936	C352	3.89	0.00000	0.31469	0.00006	0.00346	0.00001	0.00000	0.22865	0.00001	0.00036	0.00013	0.00086	0.00003	0.00058	1.27619	0.00009	0.00000	0.00002	0.00000	0.16024	0.00018	0.00016	0.14526	0.04988
635023	5861008	C353	3.76	0.00000	0.30389	0.00006	0.00335	0.00001	0.00000	0.22080	0.00001	0.00035	0.00013	0.00083	0.00003	0.00056	1.23241	0.00008	0.00000	0.00002	0.00000	0.15475	0.00018	0.00016	0.14027	0.04817
634957	5861081	C354	3.73	0.00000	0.30122	0.00006	0.00332	0.00001	0.00000	0.21886	0.00001	0.00035	0.00013	0.00082	0.00003	0.00056	1.22157	0.00008	0.00000	0.00002	0.00000	0.15339	0.00018	0.00016	0.13904	0.04775
634815	5861127	C355	3.70	0.00000	0.29902	0.00006	0.00329	0.00001	0.00000	0.21727	0.00001	0.00034	0.00013	0.00081	0.00003	0.00055	1.21267	0.00008	0.00000	0.00002	0.00000	0.15227	0.00018	0.00015	0.13803	0.04740
635036	5861316	C356	3.59	0.00000	0.29005	0.00006	0.00319	0.00001	0.00000	0.21075	0.00001	0.00033	0.00012	0.00079	0.00003	0.00054	1.17629	0.00008	0.00000	0.00002	0.00000	0.14770	0.00017	0.00015	0.13388	0.04598
635162	5861326	C357	3.62	0.00000	0.29271	0.00006	0.00322	0.00001	0.00000	0.21268	0.00001	0.00034	0.00012	0.00080	0.00003	0.00054	1.18706	0.00008	0.00000	0.00002	0.00000	0.14905	0.00017	0.00015	0.13511	0.04640
634845	5861354	C358	3.54	0.00000	0.28601	0.00005	0.00315	0.00001	0.00000	0.20781	0.00001	0.00033	0.00012	0.00078	0.00003	0.00053	1.15989	0.00008	0.00000	0.00002	0.00000	0.14564	0.00017	0.00015	0.13202	0.04534
634799	5861381	C359	3.51	0.00000	0.28394	0.00005	0.00313	0.00001	0.00000	0.20631	0.00001	0.00033	0.00012	0.00077	0.00003	0.00053	1.15150	0.00008	0.00000	0.00002	0.00000	0.14459	0.00017	0.00015	0.13106	0.04501
634807	5861446	C360	3.49	0.00000	0.28185	0.00005	0.00310	0.00001	0.00000	0.20479	0.00001	0.00032	0.00012	0.00077	0.00003	0.00052	1.14301	0.00008	0.00000	0.00002	0.00000	0.14352	0.00017	0.00015	0.13010	0.04468
634799	5861486	C361	3.47	0.00000	0.28060	0.00005	0.00309	0.00001	0.00000	0.20388	0.00001	0.00032	0.00012	0.00076	0.00003	0.00052	1.13796	0.00008	0.00000	0.00002	0.00000	0.14289	0.00016	0.00014	0.12952	0.04448
634775	5861537	C362	3.43	0.00000	0.27746	0.00005	0.00306	0.00001	0.00000	0.20160	0.00001	0.00032	0.00012	0.00076	0.00003	0.00051	1.12521	0.00008	0.00000	0.00002	0.00000	0.14129	0.00016	0.00014	0.12807	0.04398
634754	5861592	C363	3.40	0.00000	0.27510	0.00005	0.00303	0.00001	0.00000	0.19988	0.00001	0.00032	0.00012	0.00075	0.00003	0.00051	1.11563	0.00008	0.00000	0.00002	0.00000	0.14008	0.00016	0.00014	0.12698	0.04361
634742	5861622	C364	3.38	0.00000	0.27335	0.00005	0.00301	0.00001	0.00000	0.19861	0.00001	0.00031	0.00012	0.00074	0.00003	0.00051	1.10856	0.00008	0.00000	0.00002	0.00000	0.13920	0.00016	0.00014	0.12618	0.04333
634700	5861717	C365	3.32	0.00000	0.26811	0.00005	0.00295	0.00001	0.00000	0.19481	0.00001	0.00031	0.00011	0.00073	0.00003	0.00050	1.08732	0.00007	0.00000	0.00002	0.00000	0.13653	0.00016	0.00014	0.12376	0.04250
634648	5861759	C366	3.28	0.00000	0.26532	0.00005	0.00292	0.00001	0.00000	0.19278	0.00001	0.00030	0.00011	0.00072	0.00003	0.00049	1.07599	0.00007	0.00000	0.00002	0.00000	0.13511	0.00016	0.00014	0.12247	0.04206

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
634612	5861830	C367	3.23	0.00000	0.26122	0.00005	0.00288	0.00001	0.00000	0.18980	0.00001	0.00030	0.00011	0.00071	0.00003	0.00048	1.05938	0.00007	0.00000	0.00002	0.00000	0.13302	0.00015	0.00013	0.12058	0.04141
634602	5861867	C368	3.21	0.00000	0.25927	0.00005	0.00285	0.00001	0.00000	0.18838	0.00001	0.00030	0.00011	0.00071	0.00003	0.00048	1.05145	0.00007	0.00000	0.00002	0.00000	0.13202	0.00015	0.00013	0.11968	0.04110
634794	5861748	C369	3.33	0.00000	0.26932	0.00005	0.00297	0.00001	0.00000	0.19569	0.00001	0.00031	0.00011	0.00073	0.00003	0.00050	1.09221	0.00007	0.00000	0.00002	0.00000	0.13714	0.00016	0.00014	0.12431	0.04269
634894	5861777	C370	3.30	0.00000	0.26659	0.00005	0.00294	0.00001	0.00000	0.19370	0.00001	0.00031	0.00011	0.00073	0.00003	0.00049	1.08113	0.00007	0.00000	0.00002	0.00000	0.13575	0.00016	0.00014	0.12305	0.04226
634797	5861656	C371	3.39	0.00000	0.27367	0.00005	0.00301	0.00001	0.00000	0.19885	0.00001	0.00031	0.00012	0.00074	0.00003	0.00051	1.10987	0.00008	0.00000	0.00002	0.00000	0.13936	0.00016	0.00014	0.12632	0.04338
634842	5861619	C372	3.43	0.00000	0.27731	0.00005	0.00305	0.00001	0.00000	0.20149	0.00001	0.00032	0.00012	0.00075	0.00003	0.00051	1.12463	0.00008	0.00000	0.00002	0.00000	0.14121	0.00016	0.00014	0.12800	0.04396
634856	5861562	C373	3.46	0.00000	0.28004	0.00005	0.00308	0.00001	0.00000	0.20347	0.00001	0.00032	0.00012	0.00076	0.00003	0.00052	1.13566	0.00008	0.00000	0.00002	0.00000	0.14260	0.00016	0.00014	0.12926	0.04439
634874	5861521	C374	3.48	0.00000	0.28122	0.00005	0.00310	0.00001	0.00000	0.20433	0.00001	0.00032	0.00012	0.00077	0.00003	0.00052	1.14049	0.00008	0.00000	0.00002	0.00000	0.14320	0.00016	0.00014	0.12981	0.04458
634872	5861484	C375	3.50	0.00000	0.28292	0.00005	0.00312	0.00001	0.00000	0.20557	0.00001	0.00033	0.00012	0.00077	0.00003	0.00053	1.14737	0.00008	0.00000	0.00002	0.00000	0.14407	0.00017	0.00015	0.13059	0.04485
634889	5861408	C376	3.51	0.00000	0.28367	0.00005	0.00312	0.00001	0.00000	0.20611	0.00001	0.00033	0.00012	0.00077	0.00003	0.00053	1.15040	0.00008	0.00000	0.00002	0.00000	0.14445	0.00017	0.00015	0.13094	0.04496
634927	5861378	C377	3.54	0.00000	0.28580	0.00005	0.00315	0.00001	0.00000	0.20766	0.00001	0.00033	0.00012	0.00078	0.00003	0.00053	1.15906	0.00008	0.00000	0.00002	0.00000	0.14554	0.00017	0.00015	0.13192	0.04530
634931	5861326	C378	3.56	0.00000	0.28783	0.00006	0.00317	0.00001	0.00000	0.20913	0.00001	0.00033	0.00012	0.00078	0.00003	0.00053	1.16725	0.00008	0.00000	0.00002	0.00000	0.14657	0.00017	0.00015	0.13286	0.04562
635001	5861307	C379	3.58	0.00000	0.28960	0.00006	0.00319	0.00001	0.00000	0.21042	0.00001	0.00033	0.00012	0.00079	0.00003	0.00054	1.17446	0.00008	0.00000	0.00002	0.00000	0.14747	0.00017	0.00015	0.13368	0.04591
635178	5861389	C380	3.60	0.00000	0.29112	0.00006	0.00321	0.00001	0.00000	0.21152	0.00001	0.00033	0.00012	0.00079	0.00003	0.00054	1.18061	0.00008	0.00000	0.00002	0.00000	0.14824	0.00017	0.00015	0.13438	0.04615
635129	5861415	C381	3.56	0.00000	0.28763	0.00005	0.00317	0.00001	0.00000	0.20899	0.00001	0.00033	0.00012	0.00078	0.00003	0.00053	1.16646	0.00008	0.00000	0.00002	0.00000	0.14647	0.00017	0.00015	0.13277	0.04559
635078	5861447	C382	3.51	0.00000	0.28385	0.00005	0.00313	0.00001	0.00000	0.20624	0.00001	0.00033	0.00012	0.00077	0.00003	0.00053	1.15113	0.00008	0.00000	0.00002	0.00000	0.14454	0.00017	0.00015	0.13102	0.04499
635041	5861481	C383	3.47	0.00000	0.28076	0.00005	0.00309	0.00001	0.00000	0.20400	0.00001	0.00032	0.00012	0.00076	0.00003	0.00052	1.13860	0.00008	0.00000	0.00002	0.00000	0.14297	0.00016	0.00014	0.12959	0.04450
635007	5861513	C384	3.46	0.00000	0.28006	0.00005	0.00308	0.00001	0.00000	0.20349	0.00001	0.00032	0.00012	0.00076	0.00003	0.00052	1.13575	0.00008	0.00000	0.00002	0.00000	0.14261	0.00016	0.00014	0.12927	0.04439
634975	5861552	C385	3.43	0.00000	0.27703	0.00005	0.00305	0.00001	0.00000	0.20129	0.00001	0.00032	0.00012	0.00075	0.00003	0.00051	1.12347	0.00008	0.00000	0.00002	0.00000	0.14107	0.00016	0.00014	0.12787	0.04391
634966	5861604	C386	3.41	0.00000	0.27595	0.00005	0.00304	0.00001	0.00000	0.20050	0.00001	0.00032	0.00012	0.00075	0.00003	0.00051	1.11910	0.00008	0.00000	0.00002	0.00000	0.14052	0.00016	0.00014	0.12738	0.04374
634965	5861650	C387	3.38	0.00000	0.27351	0.00005	0.00301	0.00001	0.00000	0.19873	0.00001	0.00031	0.00012	0.00074	0.00003	0.00051	1.10920	0.00008	0.00000	0.00002	0.00000	0.13928	0.00016	0.00014	0.12625	0.04335
634933	5861729	C388	3.34	0.00000	0.26975	0.00005	0.00297	0.00001	0.00000	0.19600	0.00001	0.00031	0.00011	0.00073	0.00003	0.00050	1.09395	0.00007	0.00000	0.00002	0.00000	0.13736	0.00016	0.00014	0.12451	0.04276
634720	5861903	C389	3.19	0.00000	0.25811	0.00005	0.00284	0.00001	0.00000	0.18754	0.00001	0.00030	0.00011	0.00070	0.00003	0.00048	1.04674	0.00007	0.00000	0.00002	0.00000	0.13143	0.00015	0.00013	0.11914	0.04091
634674	5861939	C390	3.18	0.00000	0.25678	0.00005	0.00283	0.00001	0.00000	0.18657	0.00001	0.00030	0.00011	0.00070	0.00003	0.00048	1.04135	0.00007	0.00000	0.00002	0.00000	0.13076	0.00015	0.00013	0.11853	0.04070
634633	5861947	C391	3.17	0.00000	0.25617	0.00005	0.00282	0.00001	0.00000	0.18613	0.00001	0.00029	0.00011	0.00070	0.00003	0.00048	1.03887	0.00007	0.00000	0.00002	0.00000	0.13044	0.00015	0.00013	0.11824	0.04061
631918	5864061	C392	2.61	0.00000	0.21084	0.00004	0.00232	0.00001	0.00000	0.15319	0.00001	0.00024	0.00009	0.00057	0.00002	0.00039	0.85503	0.00006	0.00000	0.00001	0.00000	0.10736	0.00012	0.00011	0.09732	0.03342
631635	5864245	C393	2.47	0.00000	0.19939	0.00004	0.00220	0.00001	0.00000	0.14488	0.00001	0.00023	0.00008	0.00054	0.00002	0.00037	0.80862	0.00006	0.00000	0.00001	0.00000	0.10153	0.00012	0.00010	0.09204	0.03161
631596	5864310	C394	2.44	0.00000	0.19736	0.00004	0.00217	0.00001	0.00000	0.14340	0.00001	0.00023	0.00008	0.00054	0.00002	0.00037	0.80040	0.00005	0.00000	0.00001	0.00000	0.10050	0.00012	0.00010	0.09110	0.03128
631426	5864364	C395	2.38	0.00000	0.19225	0.00004	0.00212	0.00001	0.00000	0.13969	0.00001	0.00022	0.00008	0.00052	0.00002	0.00036	0.77967	0.00005	0.00000	0.00001	0.00000	0.09790	0.00011	0.00010	0.08874	0.03047
631376	5864401	C396	2.35	0.00000	0.19005	0.00004	0.00209	0.00001	0.00000	0.13809	0.00001	0.00022	0.00008	0.00052	0.00002	0.00035	0.77072	0.00005	0.00000	0.00001	0.00000	0.09677	0.00011	0.00010	0.08772	0.03012
631353	5864438	C397	2.33	0.00000	0.18822	0.00004	0.00207	0.00001	0.00000	0.13676	0.00001	0.00022	0.00008	0.00051	0.00002	0.00035	0.76330	0.00005	0.00000	0.00001	0.00000	0.09584	0.00011	0.00010	0.08688	0.02983
631356	5864521	C398	2.28	0.00000	0.18466	0.00004	0.00203	0.00001	0.00000	0.13417	0.00001	0.00021	0.00008	0.00050	0.00002	0.00034	0.74889	0.00005	0.00000	0.00001	0.00000	0.09403	0.00011	0.00010	0.08524	0.02927
631202	5864478	C399	2.28	0.00000	0.18405	0.00004	0.00203	0.00001	0.00000	0.13373	0.00001	0.00021	0.00008	0.00050	0.00002	0.00034	0.74641	0.00005	0.00000	0.00001	0.00000	0.09372	0.00011	0.00009	0.08496	0.02917
631123	5864530	C400	2.22	0.00000	0.17947	0.00003	0.00198	0.00001	0.00000	0.13040	0.00001	0.00021	0.00008	0.00049	0.00002	0.00033	0.72783	0.00005	0.00000	0.00001	0.00000	0.09139	0.00011	0.00009	0.08284	0.02845
631228	5864629	C401	2.21	0.00000	0.17825	0.00003	0.00196	0.00001	0.00000	0.12951	0.00001	0.00020	0.00008	0.00049	0.00002	0.00033	0.72287	0.00005	0.00000	0.00001	0.00000	0.09077	0.00010	0.00009	0.08228	0.02825
630947	5864638	C402	2.12	0.00000	0.17137	0.00003	0.00189	0.00001	0.00000	0.12452	0.00001	0.00020	0.00007	0.00047	0.00002	0.00032	0.69500	0.00005	0.00000	0.00001	0.00000	0.08727	0.00010	0.00009	0.07910	0.02716
630884	5864669	C403	2.08	0.00000	0.16796	0.00003	0.00185	0.00001	0.00000	0.12204	0.00001	0.00019	0.00007	0.00046	0.00002	0.00031	0.68116	0.00005	0.00000	0.00001	0.00000	0.08553	0.00010	0.00009	0.07753	0.02662
630852	5864739	C404	2.04	0.00000	0.16500	0.00003	0.00182	0.00001	0.00000	0.11989	0.00001	0.00019	0.00007	0.00045	0.00002	0.00031	0.66915	0.00005	0.00000	0.00001	0.00000	0.08402	0.00010	0.00008	0.07616	0.02615
630795	5864783	C405	2.00	0.00000	0.16186	0.00003	0.00178	0.00001	0.00000	0.11760	0.00001	0.00019	0.00007	0.00044	0.00002	0.00030	0.65640	0.00004	0.00000	0.00001	0.00000	0.08242	0.00009	0.00008	0.07471	0.02566
630714	5864851	C406	1.94	0.00000	0.15712	0.00003	0.00173	0.00001	0.00000	0.11416	0.00001	0.00018	0.00007	0.00043	0.00002	0.00029	0.63718	0.00004	0.00000	0.00001	0.00000	0.08001	0.00009	0.00008	0.07252	0.02490
630606	5864913	C407	1.87	0.00000	0.15100	0.00003	0.00166	0.00001	0.00000	0.10971	0.00001	0.00017	0.00006	0.00041	0.00001	0.00028	0.61235	0.00004	0.00000	0.00001	0.00000	0.07689	0.00009	0.00008	0.06970	0.02393
630537	5864985	C408	1.82	0.00000	0.14730	0.00003	0.00162	0.00001	0.00000	0.10702	0.00001	0.00017	0.00006	0.00040	0.00001	0.00027	0.59736	0.00004	0.00000	0.00001	0.00000	0.07501	0.00009	0.00008	0.06799	0.02335
630525	5865056	C409	1.80	0.00000	0.14563	0.00003	0.00160	0.00001	0.00000	0.10581	0.00001	0.00017	0.00006	0.00040	0.00001	0.00027	0.59058	0.00004	0.00000	0.00001	0.00000	0.07416	0.00009	0.00007	0.06722	0.02308
630640	5865177	C410	1.80	0.00000	0.14569	0.00003	0.00160	0.00001	0.00000	0.10586	0.00001	0.00017	0.00006	0.00040	0.00001	0.00027	0.59085	0.00004	0.00000	0.00001	0.00000	0.07419	0.00009	0.00008	0.06725	0.02309
630567	5865763	C411	1.62	0.00000	0.13107	0.00003	0.00144	0.00001	0.00000	0.09523	0.00001	0.00015	0.00006	0.00036	0.00001	0.00024	0.53154	0.00004	0.00000	0.00001	0.00000	0.06674	0.00008	0.00007	0.06050	0.02078
631282	5865426	C412	1.83	0.00000	0.14777	0.00003	0.00163	0.00001	0.00000	0.10737	0.00001	0.00017	0.00006	0.00040	0.00001	0.00027	0.59926	0.00004	0.00000	0.00001	0.00000	0.07525	0.00009	0.00008	0.06821	0.02342
632004	5865578	C413	1.72	0.00000	0.13890	0.00003	0.00153	0.00001	0.00000	0.10092	0.00001	0.00016	0.00006	0.00038	0.00001	0.00026	0.56330	0.00004	0.00000	0.00001	0.00000	0.07073	0.00008	0.00007	0.06411	0.02202
632080	5865528	C414	1.73	0.00000	0.13966	0.00003	0.00154	0.00001	0.00000	0.10148	0.00001	0.00016	0.00006	0.00038	0.00001	0.00026	0.56639	0.00004	0.00000	0.00001	0.00000	0.07112	0.00008	0.00007	0.06447	0.02214
632587	5865628	C415	1.57	0.00000	0.12668	0.00002	0.00139	0.00001	0.00000	0.09205	0.00001	0.00015	0.00005	0.00034	0.00001	0.00024	0.51376	0.00003	0.00000	0.00001	0.00000	0.06451	0.00007	0.00007	0.05848	0.02008
632732	5866318	C416	1.27	0.00000	0.10241	0.00002	0.00113	0.00000	0.00000	0.07441	0.00000	0.00012	0.00004	0.00028	0.00001	0.00019	0.41532	0.00003	0.00000	0.00001	0.00000	0.05215	0.00006	0.00005	0.04727	0.01623
632922	5866042	C417	1.33	0.00000	0.10724	0.00002	0.00118	0.00000	0.00000	0.07792	0.00000	0.00012	0.00005	0.00029	0.00001	0.00020	0.43492	0.00003	0.00000	0.00001	0.00000	0.05461	0.00006	0.00006	0.04950	0.01700
632958	5866077	C418	1.31	0.00000	0.10569	0.00002	0.00116	0.00000	0.00000	0.07679	0.00000	0.00012	0.00004	0.00029	0.00001	0.00020	0.42862	0.00003	0.00000	0.00001	0.00000	0.05382	0.00006	0.00005	0.04879	0.01675
633002	5866062	C419	1.30	0.00000	0.10547	0.00002	0.00116	0.00000	0.00000	0.07663	0.00000	0.00012	0.00004	0.00029	0.00001	0.00020	0.42773	0.00003	0.00000	0.00001	0.00000	0.05371	0.00006	0.00005	0.04868	0.01672
633121	5866206	C420	1.24	0.00000	0.09999	0.00002	0.00110	0.00000	0.00000	0.07265	0.00000	0.00011	0.00004	0.00027	0.00001	0.00019	0.40551	0.00003	0.00000	0.00001	0.00000	0.05092	0.00006	0.00005	0.04615	0.01585
633171	5866177	C421	1.24	0.00000	0.10014	0.00002	0.00110	0.00000	0.00000	0.07276	0.00000	0.00012	0.00004	0.00027	0.00001	0.00019	0.40610	0.00003	0.00000	0.00001	0.00000	0.05099	0.00006	0.00005	0.04622	0.01587
633224	5866191	C422	1.23	0.00000	0.09918	0.00002	0.00109	0.00000	0.00000	0.07206	0.00000	0.00011	0.00004	0.00027	0.00001	0.00018	0.40220	0.00003	0.00000	0.00001	0.00000	0.05050	0.00006	0.00005	0.04578	0.01572

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
633281	5866125	C423	1.24	0.00000	0.10028	0.00002	0.00110	0.00000	0.00000	0.07286	0.00000	0.00012	0.00004	0.00027	0.00001	0.00019	0.40666	0.00003	0.00000	0.00001	0.00000	0.05106	0.00006	0.00005	0.04629	0.01589
633337	5866101	C424	1.24	0.00000	0.10032	0.00002	0.00110	0.00000	0.00000	0.07289	0.00000	0.00012	0.00004	0.00027	0.00001	0.00019	0.40682	0.00003	0.00000	0.00001	0.00000	0.05108	0.00006	0.00005	0.04630	0.01590
633366	5866083	C425	1.24	0.00000	0.10050	0.00002	0.00111	0.00000	0.00000	0.07302	0.00000	0.00012	0.00004	0.00027	0.00001	0.00019	0.40755	0.00003	0.00000	0.00001	0.00000	0.05117	0.00006	0.00005	0.04639	0.01593
633424	5866069	C426	1.24	0.00000	0.10030	0.00002	0.00110	0.00000	0.00000	0.07288	0.00000	0.00012	0.00004	0.00027	0.00001	0.00019	0.40677	0.00003	0.00000	0.00001	0.00000	0.05108	0.00006	0.00005	0.04630	0.01590
633441	5866043	C427	1.25	0.00000	0.10082	0.00002	0.00111	0.00000	0.00000	0.07326	0.00000	0.00012	0.00004	0.00027	0.00001	0.00019	0.40887	0.00003	0.00000	0.00001	0.00000	0.05134	0.00006	0.00005	0.04654	0.01598
633416	5866144	C428	1.22	0.00000	0.09852	0.00002	0.00108	0.00000	0.00000	0.07158	0.00000	0.00011	0.00004	0.00027	0.00001	0.00018	0.39954	0.00003	0.00000	0.00001	0.00000	0.05017	0.00006	0.00005	0.04548	0.01562
633382	5866155	C429	1.22	0.00000	0.09853	0.00002	0.00108	0.00000	0.00000	0.07159	0.00000	0.00011	0.00004	0.00027	0.00001	0.00018	0.39957	0.00003	0.00000	0.00001	0.00000	0.05017	0.00006	0.00005	0.04548	0.01562
633337	5866176	C430	1.22	0.00000	0.09842	0.00002	0.00108	0.00000	0.00000	0.07151	0.00000	0.00011	0.00004	0.00027	0.00001	0.00018	0.39912	0.00003	0.00000	0.00001	0.00000	0.05012	0.00006	0.00005	0.04543	0.01560
633263	5866223	C431	1.21	0.00000	0.09799	0.00002	0.00108	0.00000	0.00000	0.07120	0.00000	0.00011	0.00004	0.00027	0.00001	0.00018	0.39738	0.00003	0.00000	0.00001	0.00000	0.04990	0.00006	0.00005	0.04523	0.01553
633042	5864004	C432	2.32	0.00000	0.18724	0.00004	0.00206	0.00001	0.00000	0.13605	0.00001	0.00022	0.00008	0.00051	0.00002	0.00035	0.75934	0.00005	0.00000	0.00001	0.00000	0.09535	0.00011	0.00010	0.08643	0.02968
635709	5867706	C433	1.06	0.00000	0.08534	0.00002	0.00094	0.00000	0.00000	0.06201	0.00000	0.00010	0.00004	0.00023	0.00001	0.00016	0.34610	0.00002	0.00000	0.00001	0.00000	0.04346	0.00005	0.00004	0.03939	0.01353
625388	5863092	C434	0.81	0.00000	0.06552	0.00001	0.00072	0.00000	0.00000	0.04761	0.00000	0.00008	0.00003	0.00018	0.00001	0.00012	0.26572	0.00002	0.00000	0.00000	0.00000	0.03336	0.00004	0.00003	0.03024	0.01039
625920	5861156	C435	1.10	0.00000	0.08862	0.00002	0.00098	0.00000	0.00000	0.06439	0.00000	0.00010	0.00004	0.00024	0.00001	0.00016	0.35939	0.00002	0.00000	0.00001	0.00000	0.04513	0.00005	0.00005	0.04091	0.01405
625442	5861111	C436	1.01	0.00000	0.08198	0.00002	0.00090	0.00000	0.00000	0.05957	0.00000	0.00009	0.00003	0.00022	0.00001	0.00015	0.33247	0.00002	0.00000	0.00001	0.00000	0.04175	0.00005	0.00004	0.03784	0.01300
625549	5860833	C437	1.07	0.00000	0.08665	0.00002	0.00095	0.00000	0.00000	0.06296	0.00000	0.00010	0.00004	0.00024	0.00001	0.00016	0.35141	0.00002	0.00000	0.00001	0.00000	0.04412	0.00005	0.00004	0.04000	0.01374
625534	5860895	C438	1.06	0.00000	0.08552	0.00002	0.00094	0.00000	0.00000	0.06214	0.00000	0.00010	0.00004	0.00023	0.00001	0.00016	0.34682	0.00002	0.00000	0.00001	0.00000	0.04355	0.00005	0.00004	0.03948	0.01356
625503	5860935	C439	1.05	0.00000	0.08470	0.00002	0.00093	0.00000	0.00000	0.06154	0.00000	0.00010	0.00004	0.00023	0.00001	0.00016	0.34350	0.00002	0.00000	0.00001	0.00000	0.04313	0.00005	0.00004	0.03910	0.01343
625491	5860984	C440	1.04	0.00000	0.08374	0.00002	0.00092	0.00000	0.00000	0.06084	0.00000	0.00010	0.00004	0.00023	0.00001	0.00016	0.33960	0.00002	0.00000	0.00001	0.00000	0.04264	0.00005	0.00004	0.03865	0.01327
625463	5861044	C441	1.02	0.00000	0.08267	0.00002	0.00091	0.00000	0.00000	0.06007	0.00000	0.00009	0.00003	0.00023	0.00001	0.00015	0.33526	0.00002	0.00000	0.00001	0.00000	0.04210	0.00005	0.00004	0.03816	0.01310
627494	5859339	C442	1.87	0.00000	0.15103	0.00003	0.00166	0.00001	0.00000	0.10974	0.00001	0.00017	0.00006	0.00041	0.00001	0.00028	0.61250	0.00004	0.00000	0.00001	0.00000	0.07691	0.00009	0.00008	0.06971	0.02394
627568	5859552	C443	1.87	0.00000	0.15118	0.00003	0.00166	0.00001	0.00000	0.10985	0.00001	0.00017	0.00006	0.00041	0.00002	0.00028	0.61310	0.00004	0.00000	0.00001	0.00000	0.07698	0.00009	0.00008	0.06978	0.02396
627722	5859592	C444	2.00	0.00000	0.16146	0.00003	0.00178	0.00001	0.00000	0.11731	0.00001	0.00019	0.00007	0.00044	0.00002	0.00030	0.65478	0.00004	0.00000	0.00001	0.00000	0.08222	0.00009	0.00008	0.07453	0.02559
627868	5860070	C445	2.04	0.00000	0.16500	0.00003	0.00182	0.00001	0.00000	0.11988	0.00001	0.00019	0.00007	0.00045	0.00002	0.00031	0.66913	0.00005	0.00000	0.00001	0.00000	0.08402	0.00010	0.00008	0.07616	0.02615
627927	5860110	C446	2.08	0.00000	0.16811	0.00003	0.00185	0.00001	0.00000	0.12215	0.00001	0.00019	0.00007	0.00046	0.00002	0.00031	0.68177	0.00005	0.00000	0.00001	0.00000	0.08561	0.00010	0.00009	0.07760	0.02665
627972	5860154	C447	2.10	0.00000	0.17009	0.00003	0.00187	0.00001	0.00000	0.12358	0.00001	0.00020	0.00007	0.00046	0.00002	0.00032	0.68978	0.00005	0.00000	0.00001	0.00000	0.08661	0.00010	0.00009	0.07851	0.02696
628037	5860189	C448	2.15	0.00000	0.17359	0.00003	0.00191	0.00001	0.00000	0.12613	0.00001	0.00020	0.00007	0.00047	0.00002	0.00032	0.70398	0.00005	0.00000	0.00001	0.00000	0.08839	0.00010	0.00009	0.08013	0.02752
624767	5861052	C449	0.99	0.00000	0.07983	0.00002	0.00088	0.00000	0.00000	0.05800	0.00000	0.00009	0.00003	0.00022	0.00001	0.00015	0.32375	0.00002	0.00000	0.00001	0.00000	0.04065	0.00005	0.00004	0.03685	0.01265
636109	5858269	C450	8.58	0.00001	0.69358	0.00013	0.00764	0.00003	0.00000	0.50395	0.00003	0.00080	0.00029	0.00189	0.00007	0.00129	2.81276	0.00019	0.00000	0.00004	0.00000	0.35318	0.00041	0.00036	0.32015	0.10994
636117	5858111	C451	9.08	0.00001	0.73380	0.00014	0.00808	0.00003	0.00001	0.53317	0.00003	0.00084	0.00031	0.00200	0.00007	0.00136	2.97585	0.00020	0.00000	0.00005	0.00000	0.37366	0.00043	0.00038	0.33871	0.11632
636305	5857911	C452	10.22	0.00001	0.82629	0.00016	0.00910	0.00003	0.00001	0.60037	0.00003	0.00095	0.00035	0.00225	0.00008	0.00153	3.35095	0.00023	0.00000	0.00005	0.00000	0.42076	0.00048	0.00043	0.38140	0.13098
623261	5854417	C453	0.91	0.00000	0.07356	0.00001	0.00081	0.00000	0.00000	0.05345	0.00000	0.00008	0.00003	0.00020	0.00001	0.00014	0.29830	0.00002	0.00000	0.00000	0.00000	0.03746	0.00004	0.00004	0.03395	0.01166
622652	5855438	C454	0.77	0.00000	0.06243	0.00001	0.00069	0.00000	0.00000	0.04536	0.00000	0.00007	0.00003	0.00017	0.00001	0.00012	0.25316	0.00002	0.00000	0.00000	0.00000	0.03179	0.00004	0.00003	0.02881	0.00990
622708	5855457	C455	0.78	0.00000	0.06286	0.00001	0.00069	0.00000	0.00000	0.04567	0.00000	0.00007	0.00003	0.00017	0.00001	0.00012	0.25492	0.00002	0.00000	0.00000	0.00000	0.03201	0.00004	0.00003	0.02902	0.00996
624826	5857667	C456	1.25	0.00000	0.10138	0.00002	0.00112	0.00000	0.00000	0.07366	0.00000	0.00012	0.00004	0.00028	0.00001	0.00019	0.41114	0.00003	0.00000	0.00001	0.00000	0.05162	0.00006	0.00005	0.04680	0.01607
634870	5861276	C457	3.58	0.00000	0.28951	0.00006	0.00319	0.00001	0.00000	0.21036	0.00001	0.00033	0.00012	0.00079	0.00003	0.00054	1.17409	0.00008	0.00000	0.00002	0.00000	0.14742	0.00017	0.00015	0.13363	0.04589
638207	5859662	C458	6.81	0.00001	0.55006	0.00011	0.00606	0.00002	0.00000	0.39966	0.00002	0.00063	0.00023	0.00150	0.00005	0.00102	2.23071	0.00015	0.00000	0.00003	0.00000	0.28010	0.00032	0.00028	0.25390	0.08719
640974	5858285	C459	7.78	0.00001	0.62860	0.00012	0.00692	0.00003	0.00000	0.45674	0.00002	0.00072	0.00026	0.00171	0.00006	0.00117	2.54926	0.00017	0.00000	0.00004	0.00000	0.32010	0.00037	0.00032	0.29015	0.09964
641865	5856903	C460	8.59	0.00001	0.69426	0.00013	0.00764	0.00003	0.00000	0.50444	0.00003	0.00080	0.00029	0.00189	0.00007	0.00129	2.81553	0.00019	0.00000	0.00004	0.00000	0.35353	0.00041	0.00036	0.32046	0.11005
635118	5851125	C461	9.29	0.00001	0.75085	0.00014	0.00827	0.00003	0.00001	0.54556	0.00003	0.00086	0.00032	0.00204	0.00007	0.00139	3.04501	0.00021	0.00000	0.00005	0.00000	0.38234	0.00044	0.00039	0.34658	0.11902
646196	5852986	C462	2.89	0.00000	0.23382	0.00004	0.00257	0.00001	0.00000	0.16989	0.00001	0.00027	0.00010	0.00064	0.00002	0.00043	0.94825	0.00006	0.00000	0.00001	0.00000	0.11907	0.00014	0.00012	0.10793	0.03706
625475	5857021	C463	1.52	0.00000	0.12269	0.00002	0.00135	0.00000	0.00000	0.08915	0.00000	0.00014	0.00005	0.00033	0.00001	0.00023	0.49757	0.00003	0.00000	0.00001	0.00000	0.06248	0.00007	0.00006	0.05663	0.01945
626098	5856799	C464	1.94	0.00000	0.15679	0.00003	0.00173	0.00001	0.00000	0.11392	0.00001	0.00018	0.00007	0.00043	0.00002	0.00029	0.63585	0.00004	0.00000	0.00001	0.00000	0.07984	0.00009	0.00008	0.07237	0.02485
627564	5858039	C465	2.88	0.00000	0.23255	0.00004	0.00256	0.00001	0.00000	0.16897	0.00001	0.00027	0.00010	0.00063	0.00002	0.00043	0.94308	0.00006	0.00000	0.00001	0.00000	0.11842	0.00014	0.00012	0.10734	0.03686
629357	5857727	C466	6.03	0.00001	0.48704	0.00009	0.00536	0.00002	0.00000	0.35388	0.00002	0.00056	0.00021	0.00133	0.00005	0.00090	1.97515	0.00013	0.00000	0.00003	0.00000	0.24801	0.00029	0.00025	0.22481	0.07720
630419	5858921	C467	8.82	0.00001	0.71314	0.00014	0.00785	0.00003	0.00000	0.51816	0.00003	0.00082	0.00030	0.00194	0.00007	0.00132	2.89210	0.00020	0.00000	0.00004	0.00000	0.36314	0.00042	0.00037	0.32918	0.11304
626642	5855576	C468	2.98	0.00000	0.24092	0.00005	0.00265	0.00001	0.00000	0.17505	0.00001	0.00028	0.00010	0.00066	0.00002	0.00045	0.97705	0.00007	0.00000	0.00002	0.00000	0.12268	0.00014	0.00012	0.11121	0.03819
630232	5858750	C469	8.57	0.00001	0.69260	0.00013	0.00763	0.00003	0.00000	0.50324	0.00003	0.00080	0.00029	0.00189	0.00007	0.00129	2.80879	0.00019	0.00000	0.00004	0.00000	0.35268	0.00041	0.00036	0.31970	0.10979
623764	5852692	C470	1.02	0.00000	0.08219	0.00002	0.00090	0.00000	0.00000	0.05972	0.00000	0.00009	0.00003	0.00022	0.00001	0.00015	0.33330	0.00002	0.00000	0.00001	0.00000	0.04185	0.00005	0.00004	0.03794	0.01303
623459	5850433	C471	0.79	0.00000	0.06391	0.00001	0.00070	0.00000	0.00000	0.04644	0.00000	0.00007	0.00003	0.00017	0.00001	0.00012	0.25919	0.00002	0.00000	0.00000	0.00000	0.03254	0.00004	0.00003	0.02950	0.01013
623460	5850000	C472	0.79	0.00000	0.06418	0.00001	0.00071	0.00000	0.00000	0.04663	0.00000	0.00007	0.00003	0.00017	0.00001	0.00012	0.26028	0.00002	0.00000	0.00000	0.00000	0.03268	0.00004	0.00003	0.02962	0.01017
624604	5850547	C473	1.07	0.00000	0.08667	0.00002	0.00095	0.00000	0.00000	0.06297	0.00000	0.00010	0.00004	0.00024	0.00001	0.00016	0.35148	0.00002	0.00000	0.00001	0.00000	0.04413	0.00005	0.00004	0.04000	0.01374
624617	5847632	C474	1.27	0.00000	0.10284	0.00002	0.00113	0.00000	0.00000	0.07472	0.00000	0.00012	0.00004	0.00028	0.00001	0.00019	0.41706	0.00003	0.00000	0.00001	0.00000	0.05237	0.00006	0.00005	0.04747	0.01630
624830	5847971	C475	1.34	0.00000	0.10804	0.00002	0.00119	0.00000	0.00000	0.07850	0.00000	0.00012	0.00005	0.00029	0.00001	0.00020	0.43815	0.00003	0.00000	0.00001	0.00000	0.05502	0.00006	0.00006	0.04987	0.01713
625323	5848229	C476	1.54	0.00000	0.12465	0.00002	0.00137	0.00001	0.00000	0.09057	0.00000	0.00014	0.00005	0.00034	0.00001	0.00023	0.50553	0.00003	0.00000	0.00001	0.00000	0.06348	0.00007	0.00006	0.05754	0.01976
625741	5848075	C477	1.75	0.00000	0.14105	0.00003	0.00155	0.00001	0.00000	0.10248	0.00001	0.00016	0.00006	0.00038	0.00001	0.00026	0.57201	0.00004	0.00000	0.00001	0.00000	0.07182	0.00008	0.00007	0.06511	0.02236
625759	5847941	C478	1.75	0.00000	0.14128	0.00003	0.00156	0.00001	0.00000	0.10265	0.00001	0.00016	0.00006	0.00038	0.00001	0.00026	0.57297	0.00004	0.00000	0.00001	0.00000	0.07194	0.00008	0.00007	0.06521	0.02240

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
			Screening Criteria	0.01	5.2	0.0065	0.52	0.007	5	--	0.005	--	0.0031	0.14	--	1	--	--	--	0.5	--	--	--	0.2	--	0.09
			95th Percentile of Metal Concentration (%)	**0.0001%**	**8.08%**	**0.002%**	**0.09%**	**0.0003%**	**0.0001%**	**5.87%**	**0.0003%**	**0.01%**	**0.003%**	**0.02%**	**0.001%**	**0.02%**	**32.78%**	**0.002%**	**0.00004%**	**0.001%**	**0.00001%**	**4.12%**	**0.005%**	**0.004%**	**3.73%**	**1.28%**
			Total Particulate Matter Concentration (ug/m^3)	Metal Concentration (ug/m^3)																						
625815	5847804	C479	1.76	0.00000	0.14260	0.00003	0.00157	0.00001	0.00000	0.10361	0.00001	0.00016	0.00006	0.00039	0.00001	0.00026	0.57829	0.00004	0.00000	0.00001	0.00000	0.07261	0.00008	0.00007	0.06582	0.02260
626223	5849126	C480	2.03	0.00000	0.16427	0.00003	0.00181	0.00001	0.00000	0.11936	0.00001	0.00019	0.00007	0.00045	0.00002	0.00030	0.66619	0.00005	0.00000	0.00001	0.00000	0.08365	0.00010	0.00008	0.07582	0.02604
625431	5849151	C481	1.53	0.00000	0.12398	0.00002	0.00137	0.00000	0.00000	0.09008	0.00000	0.00014	0.00005	0.00034	0.00001	0.00023	0.50279	0.00003	0.00000	0.00001	0.00000	0.06313	0.00007	0.00006	0.05723	0.01965
626474	5847197	C482	1.88	0.00000	0.15176	0.00003	0.00167	0.00001	0.00000	0.11027	0.00001	0.00017	0.00006	0.00041	0.00002	0.00028	0.61546	0.00004	0.00000	0.00001	0.00000	0.07728	0.00009	0.00008	0.07005	0.02406
626396	5845965	C483	1.54	0.00000	0.12454	0.00002	0.00137	0.00001	0.00000	0.09049	0.00000	0.00014	0.00005	0.00034	0.00001	0.00023	0.50506	0.00003	0.00000	0.00001	0.00000	0.06342	0.00007	0.00006	0.05749	0.01974
626683	5845314	C484	1.38	0.00000	0.11122	0.00002	0.00122	0.00000	0.00000	0.08081	0.00000	0.00013	0.00005	0.00030	0.00001	0.00021	0.45105	0.00003	0.00000	0.00001	0.00000	0.05664	0.00007	0.00006	0.05134	0.01763
626999	5845577	C485	1.43	0.00000	0.11578	0.00002	0.00127	0.00000	0.00000	0.08412	0.00000	0.00013	0.00005	0.00032	0.00001	0.00021	0.46952	0.00003	0.00000	0.00001	0.00000	0.05895	0.00007	0.00006	0.05344	0.01835
627003	5846179	C486	1.60	0.00000	0.12894	0.00002	0.00142	0.00001	0.00000	0.09369	0.00001	0.00015	0.00005	0.00035	0.00001	0.00024	0.52291	0.00004	0.00000	0.00001	0.00000	0.06566	0.00008	0.00007	0.05952	0.02044
626961	5846463	C487	1.68	0.00000	0.13575	0.00003	0.00149	0.00001	0.00000	0.09864	0.00001	0.00016	0.00006	0.00037	0.00001	0.00025	0.55053	0.00004	0.00000	0.00001	0.00000	0.06913	0.00008	0.00007	0.06266	0.02152
627273	5846354	C488	1.63	0.00000	0.13201	0.00003	0.00145	0.00001	0.00000	0.09592	0.00001	0.00015	0.00006	0.00036	0.00001	0.00024	0.53537	0.00004	0.00000	0.00001	0.00000	0.06722	0.00008	0.00007	0.06094	0.02093
627718	5845172	C489	1.31	0.00000	0.10607	0.00002	0.00117	0.00000	0.00000	0.07707	0.00000	0.00012	0.00004	0.00029	0.00001	0.00020	0.43016	0.00003	0.00000	0.00001	0.00000	0.05401	0.00006	0.00005	0.04896	0.01681
628038	5844373	C490	1.19	0.00000	0.09609	0.00002	0.00106	0.00000	0.00000	0.06982	0.00000	0.00011	0.00004	0.00026	0.00001	0.00018	0.38969	0.00003	0.00000	0.00001	0.00000	0.04893	0.00006	0.00005	0.04435	0.01523
628284	5848046	C491	2.21	0.00000	0.17854	0.00003	0.00197	0.00001	0.00000	0.12973	0.00001	0.00021	0.00008	0.00049	0.00002	0.00033	0.72407	0.00005	0.00000	0.00001	0.00000	0.09092	0.00010	0.00009	0.08241	0.02830
628253	5848298	C492	2.37	0.00000	0.19134	0.00004	0.00211	0.00001	0.00000	0.13902	0.00001	0.00022	0.00008	0.00052	0.00002	0.00036	0.77595	0.00005	0.00000	0.00001	0.00000	0.09743	0.00011	0.00010	0.08832	0.03033
628223	5848529	C493	2.48	0.00000	0.20033	0.00004	0.00221	0.00001	0.00000	0.14556	0.00001	0.00023	0.00008	0.00055	0.00002	0.00037	0.81241	0.00006	0.00000	0.00001	0.00000	0.10201	0.00012	0.00010	0.09247	0.03175
628578	5846400	C494	1.69	0.00000	0.13696	0.00003	0.00151	0.00001	0.00000	0.09951	0.00001	0.00016	0.00006	0.00037	0.00001	0.00025	0.55541	0.00004	0.00000	0.00001	0.00000	0.06974	0.00008	0.00007	0.06322	0.02171
629041	5844898	C495	1.44	0.00000	0.11614	0.00002	0.00128	0.00000	0.00000	0.08439	0.00000	0.00013	0.00005	0.00032	0.00001	0.00022	0.47101	0.00003	0.00000	0.00001	0.00000	0.05914	0.00007	0.00006	0.05361	0.01841
629002	5847706	C496	2.06	0.00000	0.16655	0.00003	0.00183	0.00001	0.00000	0.12101	0.00001	0.00019	0.00007	0.00045	0.00002	0.00031	0.67542	0.00005	0.00000	0.00001	0.00000	0.08481	0.00010	0.00009	0.07688	0.02640
628885	5847934	C497	2.14	0.00000	0.17294	0.00003	0.00190	0.00001	0.00000	0.12566	0.00001	0.00020	0.00007	0.00047	0.00002	0.00032	0.70135	0.00005	0.00000	0.00001	0.00000	0.08807	0.00010	0.00009	0.07983	0.02741
629224	5848000	C498	2.25	0.00000	0.18212	0.00003	0.00201	0.00001	0.00000	0.13233	0.00001	0.00021	0.00008	0.00050	0.00002	0.00034	0.73858	0.00005	0.00000	0.00001	0.00000	0.09274	0.00011	0.00009	0.08406	0.02887
629015	5847203	C499	1.97	0.00000	0.15923	0.00003	0.00175	0.00001	0.00000	0.11570	0.00001	0.00018	0.00007	0.00043	0.00002	0.00030	0.64576	0.00004	0.00000	0.00001	0.00000	0.08108	0.00009	0.00008	0.07350	0.02524
629458	5847746	C500	2.25	0.00000	0.18190	0.00003	0.00200	0.00001	0.00000	0.13217	0.00001	0.00021	0.00008	0.00050	0.00002	0.00034	0.73768	0.00005	0.00000	0.00001	0.00000	0.09263	0.00011	0.00009	0.08396	0.02883
629868	5847537	C501	2.35	0.00000	0.18999	0.00004	0.00209	0.00001	0.00000	0.13804	0.00001	0.00022	0.00008	0.00052	0.00002	0.00035	0.77047	0.00005	0.00000	0.00001	0.00000	0.09674	0.00011	0.00010	0.08769	0.03011
629643	5846372	C502	1.86	0.00000	0.15062	0.00003	0.00166	0.00001	0.00000	0.10944	0.00001	0.00017	0.00006	0.00041	0.00001	0.00028	0.61082	0.00004	0.00000	0.00001	0.00000	0.07670	0.00009	0.00008	0.06952	0.02387
631620	5848435	C503	3.87	0.00000	0.31249	0.00006	0.00344	0.00001	0.00000	0.22705	0.00001	0.00036	0.00013	0.00085	0.00003	0.00058	1.26730	0.00009	0.00000	0.00002	0.00000	0.15913	0.00018	0.00016	0.14424	0.04953
631326	5847777	C504	3.21	0.00000	0.25935	0.00005	0.00286	0.00001	0.00000	0.18844	0.00001	0.00030	0.00011	0.00071	0.00003	0.00048	1.05178	0.00007	0.00000	0.00002	0.00000	0.13207	0.00015	0.00013	0.11971	0.04111
631880	5848045	C505	3.54	0.00000	0.28626	0.00005	0.00315	0.00001	0.00000	0.20800	0.00001	0.00033	0.00012	0.00078	0.00003	0.00053	1.16092	0.00008	0.00000	0.00002	0.00000	0.14577	0.00017	0.00015	0.13214	0.04538
631823	5847529	C506	3.09	0.00000	0.24982	0.00005	0.00275	0.00001	0.00000	0.18152	0.00001	0.00029	0.00011	0.00068	0.00002	0.00046	1.01314	0.00007	0.00000	0.00002	0.00000	0.12721	0.00015	0.00013	0.11531	0.03960
631882	5847345	C507	2.95	0.00000	0.23873	0.00005	0.00263	0.00001	0.00000	0.17346	0.00001	0.00027	0.00010	0.00065	0.00002	0.00044	0.96816	0.00007	0.00000	0.00002	0.00000	0.12157	0.00014	0.00012	0.11020	0.03784
632025	5846766	C508	2.57	0.00000	0.20750	0.00004	0.00228	0.00001	0.00000	0.15077	0.00001	0.00024	0.00009	0.00056	0.00002	0.00039	0.84150	0.00006	0.00000	0.00001	0.00000	0.10566	0.00012	0.00011	0.09578	0.03289
630856	5847060	C509	2.64	0.00000	0.21368	0.00004	0.00235	0.00001	0.00000	0.15526	0.00001	0.00025	0.00009	0.00058	0.00002	0.00040	0.86656	0.00006	0.00000	0.00001	0.00000	0.10881	0.00013	0.00011	0.09863	0.03387
630937	5846640	C510	2.45	0.00000	0.19793	0.00004	0.00218	0.00001	0.00000	0.14381	0.00001	0.00023	0.00008	0.00054	0.00002	0.00037	0.80268	0.00005	0.00000	0.00001	0.00000	0.10079	0.00012	0.00010	0.09136	0.03137
631031	5846241	C511	2.26	0.00000	0.18307	0.00003	0.00202	0.00001	0.00000	0.13301	0.00001	0.00021	0.00008	0.00050	0.00002	0.00034	0.74242	0.00005	0.00000	0.00001	0.00000	0.09322	0.00011	0.00009	0.08450	0.02902
631246	5846057	C512	2.19	0.00000	0.17741	0.00003	0.00195	0.00001	0.00000	0.12890	0.00001	0.00020	0.00007	0.00048	0.00002	0.00033	0.71948	0.00005	0.00000	0.00001	0.00000	0.09034	0.00010	0.00009	0.08189	0.02812
631149	5846104	C513	2.21	0.00000	0.17870	0.00003	0.00197	0.00001	0.00000	0.12984	0.00001	0.00021	0.00008	0.00049	0.00002	0.00033	0.72469	0.00005	0.00000	0.00001	0.00000	0.09100	0.00010	0.00009	0.08248	0.02833
630186	5845857	C514	1.93	0.00000	0.15595	0.00003	0.00172	0.00001	0.00000	0.11331	0.00001	0.00018	0.00007	0.00042	0.00002	0.00029	0.63246	0.00004	0.00000	0.00001	0.00000	0.07941	0.00009	0.00008	0.07199	0.02472
630521	5844827	C515	1.68	0.00000	0.13572	0.00003	0.00149	0.00001	0.00000	0.09861	0.00001	0.00016	0.00006	0.00037	0.00001	0.00025	0.55040	0.00004	0.00000	0.00001	0.00000	0.06911	0.00008	0.00007	0.06265	0.02151
630500	5845041	C516	1.74	0.00000	0.14053	0.00003	0.00155	0.00001	0.00000	0.10211	0.00001	0.00016	0.00006	0.00038	0.00001	0.00026	0.56992	0.00004	0.00000	0.00001	0.00000	0.07156	0.00008	0.00007	0.06487	0.02228
631014	5845317	C517	1.88	0.00000	0.15208	0.00003	0.00167	0.00001	0.00000	0.11050	0.00001	0.00017	0.00006	0.00041	0.00002	0.00028	0.61675	0.00004	0.00000	0.00001	0.00000	0.07744	0.00009	0.00008	0.07020	0.02411
631354	5845361	C518	1.91	0.00000	0.15448	0.00003	0.00170	0.00001	0.00000	0.11225	0.00001	0.00018	0.00007	0.00042	0.00002	0.00029	0.62650	0.00004	0.00000	0.00001	0.00000	0.07867	0.00009	0.00008	0.07131	0.02449
632084	5844943	C519	1.79	0.00000	0.14445	0.00003	0.00159	0.00001	0.00000	0.10495	0.00001	0.00017	0.00006	0.00039	0.00001	0.00027	0.58580	0.00004	0.00000	0.00001	0.00000	0.07356	0.00008	0.00007	0.06668	0.02290
632227	5845440	C520	1.95	0.00000	0.15783	0.00003	0.00174	0.00001	0.00000	0.11467	0.00001	0.00018	0.00007	0.00043	0.00002	0.00029	0.64005	0.00004	0.00000	0.00001	0.00000	0.08037	0.00009	0.00008	0.07285	0.02502
631938	5845809	C521	2.09	0.00000	0.16876	0.00003	0.00186	0.00001	0.00000	0.12262	0.00001	0.00019	0.00007	0.00046	0.00002	0.00031	0.68439	0.00005	0.00000	0.00001	0.00000	0.08594	0.00010	0.00009	0.07790	0.02675
631611	5845632	C522	2.01	0.00000	0.16282	0.00003	0.00179	0.00001	0.00000	0.11830	0.00001	0.00019	0.00007	0.00044	0.00002	0.00030	0.66030	0.00004	0.00000	0.00001	0.00000	0.08291	0.00010	0.00008	0.07515	0.02581
631655	5845664	C523	2.03	0.00000	0.16387	0.00003	0.00180	0.00001	0.00000	0.11907	0.00001	0.00019	0.00007	0.00045	0.00002	0.00030	0.66457	0.00005	0.00000	0.00001	0.00000	0.08345	0.00010	0.00008	0.07564	0.02598
628692	5842475	C524	0.99	0.00000	0.08001	0.00002	0.00088	0.00000	0.00000	0.05813	0.00000	0.00009	0.00003	0.00022	0.00001	0.00015	0.32447	0.00002	0.00000	0.00001	0.00000	0.04074	0.00005	0.00004	0.03693	0.01268
628547	5842771	C525	1.01	0.00000	0.08134	0.00002	0.00090	0.00000	0.00000	0.05910	0.00000	0.00009	0.00003	0.00022	0.00001	0.00015	0.32986	0.00002	0.00000	0.00001	0.00000	0.04142	0.00005	0.00004	0.03754	0.01289
628397	5843141	C526	1.04	0.00000	0.08412	0.00002	0.00093	0.00000	0.00000	0.06112	0.00000	0.00010	0.00004	0.00023	0.00001	0.00016	0.34116	0.00002	0.00000	0.00001	0.00000	0.04284	0.00005	0.00004	0.03883	0.01333
627634	5843239	C527	1.00	0.00000	0.08065	0.00002	0.00089	0.00000	0.00000	0.05860	0.00000	0.00009	0.00003	0.00022	0.00001	0.00015	0.32705	0.00002	0.00000	0.00001	0.00000	0.04107	0.00005	0.00004	0.03722	0.01278
628194	5841854	C528	0.89	0.00000	0.07222	0.00001	0.00080	0.00000	0.00000	0.05247	0.00000	0.00008	0.00003	0.00020	0.00001	0.00013	0.29287	0.00002	0.00000	0.00000	0.00000	0.03677	0.00004	0.00004	0.03333	0.01145

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	**0.01%**	**2.57%**	**0.002%**	**0.01%**	**0.19%**	**0.003%**	**0.01%**	**0.000003%**	**2.95%**	**0.00004%**	**0.002%**	**0.0005%**	**0.0003%**	**0.04%**	**0.0001%**	**0.00004%**	**0.002%**	**0.05%**	**0.0002%**	**0.003%**	**0.05%**	**0.001%**	**0.004%**	**0.04%**
			Total Particulate Matter Concentration (ug/m^3)																								
			Maximum	0.004	1.5	0.001	0.01	0.1	0.002	0.01	0.000002	1.7	0.00002	0.001	0.0003	0.0002	0.021	0.0001	0.00002	0.001	0.027	0.0001	0.002	0.026	0.0003	0.003	0.025
			Maximum Location	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12	LU12
635960	5857470	L1	12.04	0.00088	0.30898	0.00018	0.00144	0.02230	0.00041	0.00171	0.00000	0.35546	0.00000	0.00022	0.00006	0.00003	0.00451	0.00001	0.00001	0.00020	0.00558	0.00002	0.00039	0.00551	0.00007	0.00053	0.00530
641590	5856650	L2	10.53	0.00077	0.27024	0.00016	0.00126	0.01950	0.00036	0.00149	0.00000	0.31089	0.00000	0.00019	0.00005	0.00003	0.00394	0.00001	0.00000	0.00018	0.00488	0.00002	0.00034	0.00482	0.00006	0.00046	0.00463
643605.46	5861877.39	R1	2.12	0.00015	0.05448	0.00003	0.00025	0.00393	0.00007	0.00030	0.00000	0.06268	0.00000	0.00004	0.00001	0.00001	0.00080	0.00000	0.00000	0.00004	0.00098	0.00000	0.00007	0.00097	0.00001	0.00009	0.00093
639816.84	5866610.87	R2	1.68	0.00012	0.04314	0.00003	0.00020	0.00311	0.00006	0.00024	0.00000	0.04962	0.00000	0.00003	0.00001	0.00000	0.00063	0.00000	0.00000	0.00003	0.00078	0.00000	0.00005	0.00077	0.00001	0.00007	0.00074
629502.76	5851281.02	R3	5.62	0.00041	0.14413	0.00008	0.00067	0.01040	0.00019	0.00080	0.00000	0.16582	0.00000	0.00010	0.00003	0.00002	0.00210	0.00001	0.00000	0.00010	0.00260	0.00001	0.00018	0.00257	0.00003	0.00025	0.00247
643659.57	5863076.27	S1	2.01	0.00015	0.05170	0.00003	0.00024	0.00373	0.00007	0.00029	0.00000	0.05948	0.00000	0.00004	0.00001	0.00001	0.00075	0.00000	0.00000	0.00003	0.00093	0.00000	0.00007	0.00092	0.00001	0.00009	0.00089
640302	5867360.12	S2	1.56	0.00011	0.03992	0.00002	0.00019	0.00288	0.00005	0.00022	0.00000	0.04592	0.00000	0.00003	0.00001	0.00000	0.00058	0.00000	0.00000	0.00003	0.00072	0.00000	0.00005	0.00071	0.00001	0.00007	0.00068
628698.35	5851349.26	S3/H2	4.82	0.00035	0.12372	0.00007	0.00058	0.00893	0.00016	0.00068	0.00000	0.14233	0.00000	0.00009	0.00002	0.00001	0.00181	0.00000	0.00000	0.00008	0.00224	0.00001	0.00016	0.00221	0.00003	0.00021	0.00212
638644.9	5868617.98	H1	1.15	0.00008	0.02944	0.00002	0.00014	0.00213	0.00004	0.00016	0.00000	0.03387	0.00000	0.00002	0.00001	0.00000	0.00043	0.00000	0.00000	0.00002	0.00053	0.00000	0.00004	0.00053	0.00001	0.00005	0.00050
641084.378	5860081.616	LU1	9.72	0.00071	0.24947	0.00015	0.00117	0.01801	0.00033	0.00138	0.00000	0.28699	0.00000	0.00018	0.00004	0.00003	0.00364	0.00001	0.00000	0.00017	0.00451	0.00002	0.00032	0.00445	0.00006	0.00042	0.00428
640822.0221	5853089.835	LU2	9.21	0.00067	0.23629	0.00014	0.00111	0.01705	0.00031	0.00130	0.00000	0.27184	0.00000	0.00017	0.00004	0.00003	0.00345	0.00001	0.00000	0.00016	0.00427	0.00002	0.00030	0.00422	0.00005	0.00040	0.00405
644385.4952	5853040.005	LU3	3.84	0.00028	0.09845	0.00006	0.00046	0.00711	0.00013	0.00054	0.00000	0.11326	0.00000	0.00007	0.00002	0.00001	0.00144	0.00000	0.00000	0.00007	0.00178	0.00001	0.00012	0.00176	0.00002	0.00017	0.00169
634181.7454	5862440.707	LU4	2.80	0.00020	0.07173	0.00004	0.00034	0.00518	0.00010	0.00040	0.00000	0.08252	0.00000	0.00005	0.00001	0.00001	0.00105	0.00000	0.00000	0.00005	0.00130	0.00000	0.00009	0.00128	0.00002	0.00012	0.00123
633008.4728	5862215.534	LU5	3.91	0.00029	0.10029	0.00006	0.00047	0.00724	0.00013	0.00055	0.00000	0.11537	0.00000	0.00007	0.00002	0.00001	0.00146	0.00000	0.00000	0.00007	0.00181	0.00001	0.00013	0.00179	0.00002	0.00017	0.00172
638099.3314	5858558.498	LU6	9.99	0.00073	0.25645	0.00015	0.00120	0.01851	0.00034	0.00142	0.00000	0.29503	0.00000	0.00018	0.00005	0.00003	0.00374	0.00001	0.00000	0.00017	0.00463	0.00002	0.00032	0.00458	0.00006	0.00044	0.00440
637074.6166	5847769.461	LU7	3.35	0.00024	0.08595	0.00005	0.00040	0.00620	0.00011	0.00047	0.00000	0.09888	0.00000	0.00006	0.00002	0.00001	0.00125	0.00000	0.00000	0.00006	0.00155	0.00001	0.00011	0.00153	0.00002	0.00015	0.00147
640649.1666	5848093.083	LU8	4.06	0.00030	0.10414	0.00006	0.00049	0.00752	0.00014	0.00058	0.00000	0.11981	0.00000	0.00008	0.00002	0.00001	0.00152	0.00000	0.00000	0.00007	0.00188	0.00001	0.00013	0.00186	0.00002	0.00018	0.00179
643498.0193	5844896.092	LU9	1.69	0.00012	0.04329	0.00003	0.00020	0.00312	0.00006	0.00024	0.00000	0.04980	0.00000	0.00003	0.00001	0.00000	0.00063	0.00000	0.00000	0.00003	0.00078	0.00000	0.00005	0.00077	0.00001	0.00007	0.00074
642595.8009	5841625.55	LU10	1.09	0.00008	0.02805	0.00002	0.00013	0.00202	0.00004	0.00015	0.00000	0.03227	0.00000	0.00002	0.00001	0.00000	0.00041	0.00000	0.00000	0.00002	0.00051	0.00000	0.00004	0.00050	0.00001	0.00005	0.00048
636075.4345	5858012.684	LU11	9.57	0.00070	0.24560	0.00014	0.00115	0.01773	0.00033	0.00136	0.00000	0.28254	0.00000	0.00018	0.00004	0.00003	0.00358	0.00001	0.00000	0.00016	0.00444	0.00002	0.00031	0.00438	0.00006	0.00042	0.00421
631162	5855850	LU12	57.29	0.00418	1.47011	0.00086	0.00688	0.10610	0.00195	0.00812	0.00000	1.69126	0.00002	0.00106	0.00026	0.00017	0.02146	0.00005	0.00002	0.00097	0.02657	0.00010	0.00186	0.02623	0.00034	0.00250	0.02521
631662	5848350	LU13	3.79	0.00028	0.09730	0.00006	0.00046	0.00702	0.00013	0.00054	0.00000	0.11194	0.00000	0.00007	0.00002	0.00001	0.00142	0.00000	0.00000	0.00006	0.00176	0.00001	0.00012	0.00174	0.00002	0.00017	0.00167
632162	5845850	LU14	2.11	0.00015	0.05402	0.00003	0.00025	0.00390	0.00007	0.00030	0.00000	0.06215	0.00000	0.00004	0.00001	0.00001	0.00079	0.00000	0.00000	0.00004	0.00098	0.00000	0.00007	0.00096	0.00001	0.00009	0.00093
635730	5849661	C1	6.30	0.00046	0.16169	0.00009	0.00076	0.01167	0.00021	0.00089	0.00000	0.18601	0.00000	0.00012	0.00003	0.00002	0.00236	0.00001	0.00000	0.00011	0.00292	0.00001	0.00020	0.00289	0.00004	0.00028	0.00277
636577	5858531	C2	8.89	0.00065	0.22810	0.00013	0.00107	0.01646	0.00030	0.00126	0.00000	0.26241	0.00000	0.00016	0.00004	0.00003	0.00333	0.00001	0.00000	0.00015	0.00412	0.00001	0.00029	0.00407	0.00005	0.00039	0.00391
636140	5858010	C3	9.46	0.00069	0.24284	0.00014	0.00114	0.01753	0.00032	0.00134	0.00000	0.27937	0.00000	0.00018	0.00004	0.00003	0.00354	0.00001	0.00000	0.00016	0.00439	0.00002	0.00031	0.00433	0.00006	0.00041	0.00416
636150	5857871	C4	10.02	0.00073	0.25704	0.00015	0.00120	0.01855	0.00034	0.00142	0.00000	0.29571	0.00000	0.00019	0.00005	0.00003	0.00375	0.00001	0.00000	0.00017	0.00465	0.00002	0.00032	0.00459	0.00006	0.00044	0.00441
636111	5857723	C5	10.65	0.00078	0.27315	0.00016	0.00128	0.01971	0.00036	0.00151	0.00000	0.31424	0.00000	0.00020	0.00005	0.00003	0.00399	0.00001	0.00000	0.00018	0.00494	0.00002	0.00034	0.00487	0.00006	0.00046	0.00468
636065	5857542	C6	11.36	0.00083	0.29159	0.00017	0.00136	0.02105	0.00039	0.00161	0.00000	0.33545	0.00000	0.00021	0.00005	0.00003	0.00426	0.00001	0.00000	0.00019	0.00527	0.00002	0.00037	0.00520	0.00007	0.00050	0.00500
636018	5857320	C7	11.96	0.00087	0.30699	0.00018	0.00144	0.02216	0.00041	0.00170	0.00000	0.35317	0.00000	0.00022	0.00005	0.00003	0.00448	0.00001	0.00001	0.00020	0.00555	0.00002	0.00039	0.00548	0.00007	0.00052	0.00526
636115	5857199	C8	12.49	0.00091	0.32054	0.00019	0.00150	0.02313	0.00042	0.00177	0.00000	0.36876	0.00000	0.00023	0.00006	0.00004	0.00468	0.00001	0.00001	0.00021	0.00579	0.00002	0.00040	0.00572	0.00007	0.00055	0.00550
636071	5857083	C9	12.92	0.00094	0.33152	0.00019	0.00155	0.02393	0.00044	0.00183	0.00000	0.38139	0.00001	0.00024	0.00006	0.00004	0.00484	0.00001	0.00001	0.00022	0.00599	0.00002	0.00042	0.00592	0.00008	0.00056	0.00568
636105	5856822	C10	13.55	0.00099	0.34763	0.00020	0.00163	0.02509	0.00046	0.00192	0.00000	0.39992	0.00001	0.00025	0.00006	0.00004	0.00507	0.00001	0.00001	0.00023	0.00628	0.00002	0.00044	0.00620	0.00008	0.00059	0.00596
636098	5856774	C11	14.19	0.00104	0.36399	0.00021	0.00170	0.02627	0.00048	0.00201	0.00000	0.41875	0.00001	0.00026	0.00006	0.00004	0.00531	0.00001	0.00001	0.00024	0.00658	0.00002	0.00046	0.00650	0.00008	0.00062	0.00624
636907	5856913	C12 (MAX)	16.92	0.00124	0.43415	0.00025	0.00203	0.03133	0.00058	0.00240	0.00000	0.49946	0.00001	0.00031	0.00008	0.00005	0.00634	0.00002	0.00001	0.00029	0.00785	0.00003	0.00055	0.00775	0.00010	0.00074	0.00744
637468	5857501	C13	13.00	0.00095	0.33351	0.00020	0.00156	0.02407	0.00044	0.00184	0.00000	0.38368	0.00001	0.00024	0.00006	0.00004	0.00487	0.00001	0.00001	0.00022	0.00603	0.00002	0.00042	0.00595	0.00008	0.00057	0.00572
637586	5857770	C14	12.13	0.00089	0.31122	0.00018	0.00146	0.02246	0.00041	0.00172	0.00000	0.35804	0.00000	0.00022	0.00006	0.00004	0.00454	0.00001	0.00001	0.00021	0.00562	0.00002	0.00039	0.00555	0.00007	0.00053	0.00534
637560	5858030	C15	10.80	0.00079	0.27707	0.00016	0.00130	0.02000	0.00037	0.00153	0.00000	0.31875	0.00000	0.00020	0.00005	0.00003	0.00404	0.00001	0.00000	0.00018	0.00501	0.00002	0.00035	0.00494	0.00006	0.00047	0.00475
637559	5858098	C16	10.66	0.00078	0.27350	0.00016	0.00128	0.01974	0.00036	0.00151	0.00000	0.31464	0.00000	0.00020	0.00005	0.00003	0.00399	0.00001	0.00000	0.00018	0.00494	0.00002	0.00035	0.00488	0.00006	0.00047	0.00469
637382	5858387	C17	10.04	0.00073	0.25751	0.00015	0.00120	0.01859	0.00034	0.00142	0.00000	0.29625	0.00000	0.00019	0.00005	0.00003	0.00376	0.00001	0.00000	0.00017	0.00465	0.00002	0.00033	0.00460	0.00006	0.00044	0.00442
636439	5858885	C18	7.40	0.00054	0.18990	0.00011	0.00089	0.01371	0.00025	0.00105	0.00000	0.21846	0.00000	0.00014	0.00003	0.00002	0.00277	0.00001	0.00000	0.00013	0.00343	0.00001	0.00024	0.00339	0.00004	0.00032	0.00326
636532	5858958	C19	7.55	0.00055	0.19381	0.00011	0.00091	0.01399	0.00026	0.00107	0.00000	0.22296	0.00000	0.00014	0.00003	0.00002	0.00283	0.00001	0.00000	0.00013	0.00350	0.00001	0.00024	0.00346	0.00004	0.00033	0.00332
636641	5859177	C20	7.39	0.00054	0.18975	0.00011	0.00089	0.01370	0.00025	0.00105	0.00000	0.21829	0.00000	0.00014	0.00003	0.00002	0.00277	0.00001	0.00000	0.00013	0.00343	0.00001	0.00024	0.00339	0.00004	0.00032	0.00325
636587	5859379	C21	6.83	0.00050	0.17528	0.00010	0.00082	0.01265	0.00023	0.00097	0.00000	0.20165	0.00000	0.00013	0.00003	0.00002	0.00256	0.00001	0.00000	0.00012	0.00317	0.00001	0.00022	0.00313	0.00004	0.00030	0.00301
636606	5859083	C22	7.50	0.00055	0.19248	0.00011	0.00090	0.01389	0.00026	0.00106	0.00000	0.22143	0.00000	0.00014	0.00003	0.00002	0.00281	0.00001	0.00000	0.00013	0.00348	0.00001	0.00024	0.00343	0.00004	0.00033	0.00330
636333	5859399	C23	6.08	0.00044	0.15611	0.00009	0.00073	0.01127	0.00021	0.00086	0.00000	0.17959	0.00000	0.00011	0.00003	0.00002	0.00228	0.00001	0.00000	0.00010	0.00282	0.00001	0.00020	0.00279	0.00004	0.00027	0.00268
636210	5859591	C24	5.58	0.00041	0.14307	0.00008	0.00067	0.01033	0.00019	0.00079	0.00000	0.16459	0.00000	0.00010	0.00003	0.00002	0.00209	0.00001	0.00000	0.00009	0.00259	0.00001	0.00018	0.00255	0.00003	0.00024	0.00245
637527	5858534	C25	9.48	0.00069	0.24335	0.00014	0.00114	0.01756	0.00032	0.00134	0.00000	0.27995	0.00000	0.00018	0.00004	0.00003	0.00355	0.00001	0.00000	0.00016	0.00440	0.00002	0.00031	0.00434	0.00006	0.00041	0.00417
638188	5859443	C26	7.14	0.00052	0.18330	0.00011	0.00086	0.01323	0.00024	0.00101	0.00000	0.21087	0.00000	0.00013	0.00003	0.00002	0.00268	0.00001	0.00000	0.00012	0.00331	0.00001	0.00023	0.00327	0.00004	0.00031	0.00314
638031	5859903	C27	6.51	0.00048	0.16709	0.00010	0.00078	0.01206	0.00022	0.00092	0.00000	0.19223	0.00000	0.00012	0.00003	0.00002	0.00244	0.00001	0.00000	0.00011	0.00302	0.00001	0.00021	0.00298	0.00004	0.00028	0.00287
638118	5860165	C28	6.07	0.00044	0.15564	0.00009	0.00073	0.01123	0.00021	0.00086	0.00000	0.17906	0.00000	0.00011	0.00003	0.00002	0.00227	0.00001	0.00000	0.00010	0.00281	0.00001	0.00020	0.00278	0.00004	0.00026	0.00267
638095	5860245	C29	5.97	0.00044	0.15330	0.00009	0.00072	0.01106	0.00020	0.00085	0.00000	0.17636	0.00000	0.00011	0.00003	0.00002	0.00224	0.00001	0.00000	0.00010	0.00277	0.00001	0.00019	0.00274	0.00004	0.00026	0.00263
635722	5860584	C30	4.30	0.00031	0.11029	0.00006	0.00052	0.00796	0.00015	0.00061	0.00000	0.12689	0.00000	0.00008	0.00002	0.00001	0.00161	0.00000	0.00000	0.00007	0.00199	0.00001	0.00014	0.00197	0.00003	0.00019	0.00189

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	**0.01%**	**2.57%**	**0.002%**	**0.01%**	**0.19%**	**0.003%**	**0.01%**	**0.000003%**	**2.95%**	**0.00004%**	**0.002%**	**0.0005%**	**0.0003%**	**0.04%**	**0.0001%**	**0.00004%**	**0.002%**	**0.05%**	**0.0002%**	**0.003%**	**0.05%**	**0.001%**	**0.004%**	**0.04%**
			Total Particulate Matter Concentration (ug/m^3)																								
635612	5860422	C31	4.22	0.00031	0.10836	0.00006	0.00051	0.00782	0.00014	0.00060	0.00000	0.12466	0.00000	0.00008	0.00002	0.00001	0.00158	0.00000	0.00000	0.00007	0.00196	0.00001	0.00014	0.00193	0.00003	0.00018	0.00186
635465	5860366	C32	4.16	0.00030	0.10683	0.00006	0.00050	0.00771	0.00014	0.00059	0.00000	0.12290	0.00000	0.00008	0.00002	0.00001	0.00156	0.00000	0.00000	0.00007	0.00193	0.00001	0.00013	0.00191	0.00002	0.00018	0.00183
635190	5860556	C33	4.08	0.00030	0.10472	0.00006	0.00049	0.00756	0.00014	0.00058	0.00000	0.12047	0.00000	0.00008	0.00002	0.00001	0.00153	0.00000	0.00000	0.00007	0.00189	0.00001	0.00013	0.00187	0.00002	0.00018	0.00180
635188	5860635	C34	4.03	0.00029	0.10353	0.00006	0.00048	0.00747	0.00014	0.00057	0.00000	0.11911	0.00000	0.00007	0.00002	0.00001	0.00151	0.00000	0.00000	0.00007	0.00187	0.00001	0.00013	0.00185	0.00002	0.00018	0.00178
635168	5860785	C35	3.93	0.00029	0.10087	0.00006	0.00047	0.00728	0.00013	0.00056	0.00000	0.11604	0.00000	0.00007	0.00002	0.00001	0.00147	0.00000	0.00000	0.00007	0.00182	0.00001	0.00013	0.00180	0.00002	0.00017	0.00173
635180	5860828	C36	3.88	0.00028	0.09947	0.00006	0.00047	0.00718	0.00013	0.00055	0.00000	0.11444	0.00000	0.00007	0.00002	0.00001	0.00145	0.00000	0.00000	0.00007	0.00180	0.00001	0.00013	0.00178	0.00002	0.00017	0.00171
635148	5860858	C37	3.87	0.00028	0.09926	0.00006	0.00046	0.00716	0.00013	0.00055	0.00000	0.11419	0.00000	0.00007	0.00002	0.00001	0.00145	0.00000	0.00000	0.00007	0.00179	0.00001	0.00013	0.00177	0.00002	0.00017	0.00170
640778	5857817	C38	9.04	0.00066	0.23199	0.00014	0.00108	0.01674	0.00031	0.00128	0.00000	0.26689	0.00000	0.00017	0.00004	0.00003	0.00339	0.00001	0.00000	0.00015	0.00419	0.00002	0.00029	0.00414	0.00005	0.00039	0.00398
640792	5857910	C39	8.76	0.00064	0.22488	0.00013	0.00105	0.01623	0.00030	0.00124	0.00000	0.25871	0.00000	0.00016	0.00004	0.00003	0.00328	0.00001	0.00000	0.00015	0.00406	0.00001	0.00028	0.00401	0.00005	0.00038	0.00386
641137	5857913	C40	7.99	0.00058	0.20512	0.00012	0.00096	0.01480	0.00027	0.00113	0.00000	0.23597	0.00000	0.00015	0.00004	0.00002	0.00299	0.00001	0.00000	0.00014	0.00371	0.00001	0.00026	0.00366	0.00005	0.00035	0.00352
641364	5857725	C41	8.06	0.00059	0.20690	0.00012	0.00097	0.01493	0.00027	0.00114	0.00000	0.23803	0.00000	0.00015	0.00004	0.00002	0.00302	0.00001	0.00000	0.00014	0.00374	0.00001	0.00026	0.00369	0.00005	0.00035	0.00355
641817	5857027	C42	8.30	0.00061	0.21294	0.00012	0.00100	0.01537	0.00028	0.00118	0.00000	0.24497	0.00000	0.00015	0.00004	0.00002	0.00311	0.00001	0.00000	0.00014	0.00385	0.00001	0.00027	0.00380	0.00005	0.00036	0.00365
641845	5856814	C43	8.79	0.00064	0.22551	0.00013	0.00105	0.01628	0.00030	0.00125	0.00000	0.25944	0.00000	0.00016	0.00004	0.00003	0.00329	0.00001	0.00000	0.00015	0.00408	0.00001	0.00028	0.00402	0.00005	0.00038	0.00387
641912	5857277	C44	7.50	0.00055	0.19250	0.00011	0.00090	0.01389	0.00026	0.00106	0.00000	0.22145	0.00000	0.00014	0.00003	0.00002	0.00281	0.00001	0.00000	0.00013	0.00348	0.00001	0.00024	0.00344	0.00004	0.00033	0.00330
641840	5857280	C45	7.71	0.00056	0.19774	0.00012	0.00092	0.01427	0.00026	0.00109	0.00000	0.22749	0.00000	0.00014	0.00004	0.00002	0.00289	0.00001	0.00000	0.00013	0.00357	0.00001	0.00025	0.00353	0.00005	0.00034	0.00339
641870	5857362	C46	7.52	0.00055	0.19305	0.00011	0.00090	0.01393	0.00026	0.00107	0.00000	0.22209	0.00000	0.00014	0.00003	0.00002	0.00282	0.00001	0.00000	0.00013	0.00349	0.00001	0.00024	0.00344	0.00004	0.00033	0.00331
641637	5857345	C47	8.15	0.00060	0.20925	0.00012	0.00098	0.01510	0.00028	0.00116	0.00000	0.24073	0.00000	0.00015	0.00004	0.00002	0.00305	0.00001	0.00000	0.00014	0.00378	0.00001	0.00026	0.00373	0.00005	0.00036	0.00359
641560	5857425	C48	8.22	0.00060	0.21096	0.00012	0.00099	0.01523	0.00028	0.00116	0.00000	0.24270	0.00000	0.00015	0.00004	0.00002	0.00308	0.00001	0.00000	0.00014	0.00381	0.00001	0.00027	0.00376	0.00005	0.00036	0.00362
641454	5857455	C49	8.36	0.00061	0.21446	0.00013	0.00100	0.01548	0.00028	0.00118	0.00000	0.24672	0.00000	0.00015	0.00004	0.00002	0.00313	0.00001	0.00000	0.00014	0.00388	0.00001	0.00027	0.00383	0.00005	0.00036	0.00368
641550	5857525	C50	8.07	0.00059	0.20711	0.00012	0.00097	0.01495	0.00027	0.00114	0.00000	0.23826	0.00000	0.00015	0.00004	0.00002	0.00302	0.00001	0.00000	0.00014	0.00374	0.00001	0.00026	0.00370	0.00005	0.00035	0.00355
641466	5857605	C51	8.05	0.00059	0.20649	0.00012	0.00097	0.01490	0.00027	0.00114	0.00000	0.23756	0.00000	0.00015	0.00004	0.00002	0.00301	0.00001	0.00000	0.00014	0.00373	0.00001	0.00026	0.00368	0.00005	0.00035	0.00354
643367	5857533	C52	4.85	0.00035	0.12443	0.00007	0.00058	0.00898	0.00016	0.00069	0.00000	0.14315	0.00000	0.00009	0.00002	0.00001	0.00182	0.00000	0.00000	0.00008	0.00225	0.00001	0.00016	0.00222	0.00003	0.00021	0.00213
641285	5858131	C53	7.39	0.00054	0.18958	0.00011	0.00089	0.01368	0.00025	0.00105	0.00000	0.21810	0.00000	0.00014	0.00003	0.00002	0.00277	0.00001	0.00000	0.00013	0.00343	0.00001	0.00024	0.00338	0.00004	0.00032	0.00325
641270	5858280	C54	7.26	0.00053	0.18625	0.00011	0.00087	0.01344	0.00025	0.00103	0.00000	0.21426	0.00000	0.00013	0.00003	0.00002	0.00272	0.00001	0.00000	0.00012	0.00337	0.00001	0.00024	0.00332	0.00004	0.00032	0.00319
645508	5854970	C55	2.96	0.00022	0.07584	0.00004	0.00035	0.00547	0.00010	0.00042	0.00000	0.08725	0.00000	0.00005	0.00001	0.00001	0.00111	0.00000	0.00000	0.00005	0.00137	0.00000	0.00010	0.00135	0.00002	0.00013	0.00130
645337	5854863	C56	3.03	0.00022	0.07778	0.00005	0.00036	0.00561	0.00010	0.00043	0.00000	0.08948	0.00000	0.00006	0.00001	0.00001	0.00114	0.00000	0.00000	0.00005	0.00141	0.00001	0.00010	0.00139	0.00002	0.00013	0.00133
645280	5854855	C57	3.05	0.00022	0.07831	0.00005	0.00037	0.00565	0.00010	0.00043	0.00000	0.09009	0.00000	0.00006	0.00001	0.00001	0.00114	0.00000	0.00000	0.00005	0.00142	0.00001	0.00010	0.00140	0.00002	0.00013	0.00134
644937	5855135	C58	3.16	0.00023	0.08105	0.00005	0.00038	0.00585	0.00011	0.00045	0.00000	0.09324	0.00000	0.00006	0.00001	0.00001	0.00118	0.00000	0.00000	0.00005	0.00146	0.00001	0.00010	0.00145	0.00002	0.00014	0.00139
644879	5855382	C59	3.11	0.00023	0.07977	0.00005	0.00037	0.00576	0.00011	0.00044	0.00000	0.09177	0.00000	0.00006	0.00001	0.00001	0.00116	0.00000	0.00000	0.00005	0.00144	0.00001	0.00010	0.00142	0.00002	0.00014	0.00137
644973	5855439	C60	3.06	0.00022	0.07855	0.00005	0.00037	0.00567	0.00010	0.00043	0.00000	0.09037	0.00000	0.00006	0.00001	0.00001	0.00115	0.00000	0.00000	0.00005	0.00142	0.00001	0.00010	0.00140	0.00002	0.00013	0.00135
645128	5855811	C61	2.92	0.00021	0.07505	0.00004	0.00035	0.00542	0.00010	0.00041	0.00000	0.08634	0.00000	0.00005	0.00001	0.00001	0.00110	0.00000	0.00000	0.00005	0.00136	0.00000	0.00009	0.00134	0.00002	0.00013	0.00129
645033	5855931	C62	3.00	0.00022	0.07707	0.00005	0.00036	0.00556	0.00010	0.00043	0.00000	0.08866	0.00000	0.00006	0.00001	0.00001	0.00112	0.00000	0.00000	0.00005	0.00139	0.00001	0.00010	0.00138	0.00002	0.00013	0.00132
645036	5856103	C63	3.00	0.00022	0.07699	0.00005	0.00036	0.00556	0.00010	0.00043	0.00000	0.08857	0.00000	0.00006	0.00001	0.00001	0.00112	0.00000	0.00000	0.00005	0.00139	0.00001	0.00010	0.00137	0.00002	0.00013	0.00132
645180	5855879	C64	2.91	0.00021	0.07474	0.00004	0.00035	0.00539	0.00010	0.00041	0.00000	0.08598	0.00000	0.00005	0.00001	0.00001	0.00109	0.00000	0.00000	0.00005	0.00135	0.00000	0.00009	0.00133	0.00002	0.00013	0.00128
645330	5855813	C65	2.90	0.00021	0.07440	0.00004	0.00035	0.00537	0.00010	0.00041	0.00000	0.08560	0.00000	0.00005	0.00001	0.00001	0.00109	0.00000	0.00000	0.00005	0.00134	0.00000	0.00009	0.00133	0.00002	0.00013	0.00128
645506	5855706	C66	2.94	0.00021	0.07543	0.00004	0.00035	0.00544	0.00010	0.00042	0.00000	0.08677	0.00000	0.00005	0.00001	0.00001	0.00110	0.00000	0.00000	0.00005	0.00136	0.00000	0.00010	0.00135	0.00002	0.00013	0.00129
645632	5855645	C67	3.03	0.00022	0.07763	0.00005	0.00036	0.00560	0.00010	0.00043	0.00000	0.08931	0.00000	0.00006	0.00001	0.00001	0.00113	0.00000	0.00000	0.00005	0.00140	0.00001	0.00010	0.00139	0.00002	0.00013	0.00133
645590	5855519	C68	2.94	0.00021	0.07543	0.00004	0.00035	0.00544	0.00010	0.00042	0.00000	0.08678	0.00000	0.00005	0.00001	0.00001	0.00110	0.00000	0.00000	0.00005	0.00136	0.00000	0.00010	0.00135	0.00002	0.00013	0.00129
645598	5855459	C69	2.99	0.00022	0.07668	0.00004	0.00036	0.00553	0.00010	0.00042	0.00000	0.08821	0.00000	0.00006	0.00001	0.00001	0.00112	0.00000	0.00000	0.00005	0.00139	0.00001	0.00010	0.00137	0.00002	0.00013	0.00131
645662	5855286	C70	2.93	0.00021	0.07512	0.00004	0.00035	0.00542	0.00010	0.00041	0.00000	0.08642	0.00000	0.00005	0.00001	0.00001	0.00110	0.00000	0.00000	0.00005	0.00136	0.00000	0.00009	0.00134	0.00002	0.00013	0.00129
645835	5855153	C71	2.86	0.00021	0.07328	0.00004	0.00034	0.00529	0.00010	0.00040	0.00000	0.08430	0.00000	0.00005	0.00001	0.00001	0.00107	0.00000	0.00000	0.00005	0.00132	0.00000	0.00009	0.00131	0.00002	0.00012	0.00126
645976	5855021	C72	2.88	0.00021	0.07390	0.00004	0.00035	0.00533	0.00010	0.00041	0.00000	0.08502	0.00000	0.00005	0.00001	0.00001	0.00108	0.00000	0.00000	0.00005	0.00134	0.00000	0.00009	0.00132	0.00002	0.00013	0.00127
646064	5854763	C73	2.86	0.00021	0.07331	0.00004	0.00034	0.00529	0.00010	0.00040	0.00000	0.08434	0.00000	0.00005	0.00001	0.00001	0.00107	0.00000	0.00000	0.00005	0.00132	0.00000	0.00009	0.00131	0.00002	0.00012	0.00126
645907	5854390	C74	2.92	0.00021	0.07498	0.00004	0.00035	0.00541	0.00010	0.00041	0.00000	0.08626	0.00000	0.00005	0.00001	0.00001	0.00109	0.00000	0.00000	0.00005	0.00135	0.00000	0.00009	0.00134	0.00002	0.00013	0.00129
645885	5854242	C75	2.98	0.00022	0.07637	0.00004	0.00036	0.00551	0.00010	0.00042	0.00000	0.08785	0.00000	0.00006	0.00001	0.00001	0.00111	0.00000	0.00000	0.00005	0.00138	0.00000	0.00010	0.00136	0.00002	0.00013	0.00131
645737	5853966	C76	2.93	0.00021	0.07524	0.00004	0.00035	0.00543	0.00010	0.00042	0.00000	0.08656	0.00000	0.00005	0.00001	0.00001	0.00110	0.00000	0.00000	0.00005	0.00136	0.00000	0.00010	0.00134	0.00002	0.00013	0.00129
646109	5853232	C77	2.91	0.00021	0.07456	0.00004	0.00035	0.00538	0.00010	0.00041	0.00000	0.08578	0.00000	0.00005	0.00001	0.00001	0.00109	0.00000	0.00000	0.00005	0.00135	0.00000	0.00009	0.00133	0.00002	0.00013	0.00128
646092	5852876	C78	2.92	0.00021	0.07482	0.00004	0.00035	0.00540	0.00010	0.00041	0.00000	0.08608	0.00000	0.00005	0.00001	0.00001	0.00109	0.00000	0.00000	0.00005	0.00135	0.00000	0.00009	0.00134	0.00002	0.00013	0.00128
646044	5852660	C79	2.92	0.00021	0.07495	0.00004	0.00035	0.00541	0.00010	0.00041	0.00000	0.08622	0.00000	0.00005	0.00001	0.00001	0.00109	0.00000	0.00000	0.00005	0.00135	0.00000	0.00009	0.00134	0.00002	0.00013	0.00129
646428	5852634	C80	2.82	0.00021	0.07236	0.00004	0.00034	0.00522	0.00010	0.00040	0.00000	0.08324	0.00000	0.00005	0.00001	0.00001	0.00106	0.00000	0.00000	0.00005	0.00131	0.00000	0.00009	0.00129	0.00002	0.00012	0.00124
646459	5852650	C81	2.81	0.00021	0.07215	0.00004	0.00034	0.00521	0.00010	0.00040	0.00000	0.08301	0.00000	0.00005	0.00001	0.00001	0.00105	0.00000	0.00000	0.00005	0.00130	0.00000	0.00009	0.00129	0.00002	0.00012	0.00124
647491	5856467	C82	2.16	0.00016	0.05555	0.00003	0.00026	0.00401	0.00007	0.00031	0.00000	0.06390	0.00000	0.00004	0.00001	0.00001	0.00081	0.00000	0.00000	0.00004	0.00100	0.00000	0.00007	0.00099	0.00001	0.00009	0.00095
647943	5857121	C83	1.95	0.00014	0.05005	0.00003	0.00023	0.00361	0.00007	0.00028	0.00000	0.05758	0.00000	0.00004	0.00001	0.00001	0.00073	0.00000	0.00000	0.00003	0.00090	0.00000	0.00006	0.00089	0.00001	0.00009	0.00086
650541	5853616	C84	1.63	0.00012	0.04191	0.00002	0.00020	0.00302	0.00006	0.00023	0.00000	0.04821	0.00000	0.00003	0.00001	0.00000	0.00061	0.00000	0.00000	0.00003	0.00076	0.00000	0.00005	0.00075	0.00001	0.00007	0.00072
649585	5855076	C85	1.68	0.00012	0.04304	0.00003	0.00020	0.00311	0.00006	0.00024	0.00000	0.04951	0.00000	0.00003	0.00001	0.00000	0.00063	0.00000	0.00000	0.00003	0.00078	0.00000	0.00005	0.00077	0.00001	0.00007	0.00074
649478	5856416	C86	1.61	0.00012	0.04140	0.00002	0.00019	0.00299	0.00005	0.00023	0.00000	0.04763	0.00000	0.00003	0.00001	0.00000	0.00060	0.00000	0.00000	0.00003	0.00075	0.00000	0.00005	0.00074	0.00001	0.00007	0.00071

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	0.01%	2.57%	0.002%	0.01%	0.19%	0.003%	0.01%	0.000003%	2.95%	0.00004%	0.002%	0.0005%	0.0003%	0.04%	0.0001%	0.00004%	0.002%	0.05%	0.0002%	0.003%	0.05%	0.001%	0.004%	0.04%
			Total Particulate Matter Concentration (ug/m^3)																								
647046	5860524	C87	1.71	0.00012	0.04389	0.00003	0.00021	0.00317	0.00006	0.00024	0.00000	0.05049	0.00000	0.00003	0.00001	0.00000	0.00064	0.00000	0.00000	0.00003	0.00079	0.00000	0.00006	0.00078	0.00001	0.00007	0.00075
649298	5858934	C88	1.41	0.00010	0.03616	0.00002	0.00017	0.00261	0.00005	0.00020	0.00000	0.04160	0.00000	0.00003	0.00001	0.00000	0.00053	0.00000	0.00000	0.00002	0.00065	0.00000	0.00005	0.00065	0.00001	0.00006	0.00062
649221	5858590	C89	1.48	0.00011	0.03787	0.00002	0.00018	0.00273	0.00005	0.00021	0.00000	0.04357	0.00000	0.00003	0.00001	0.00000	0.00055	0.00000	0.00000	0.00003	0.00068	0.00000	0.00005	0.00068	0.00001	0.00006	0.00065
655939	5864862	C90	0.42	0.00003	0.01088	0.00001	0.00005	0.00079	0.00001	0.00006	0.00000	0.01252	0.00000	0.00001	0.00000	0.00000	0.00016	0.00000	0.00000	0.00001	0.00020	0.00000	0.00001	0.00019	0.00000	0.00002	0.00019
653216	5864965	C91	0.54	0.00004	0.01392	0.00001	0.00007	0.00100	0.00002	0.00008	0.00000	0.01601	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00025	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
650592	5866521	C92	0.67	0.00005	0.01709	0.00001	0.00008	0.00123	0.00002	0.00009	0.00000	0.01967	0.00000	0.00001	0.00000	0.00000	0.00025	0.00000	0.00000	0.00001	0.00031	0.00000	0.00002	0.00031	0.00000	0.00003	0.00029
654383	5868124	C93	0.43	0.00003	0.01092	0.00001	0.00005	0.00079	0.00001	0.00006	0.00000	0.01256	0.00000	0.00001	0.00000	0.00000	0.00016	0.00000	0.00000	0.00001	0.00020	0.00000	0.00001	0.00019	0.00000	0.00002	0.00019
652330	5866689	C94	0.55	0.00004	0.01404	0.00001	0.00007	0.00101	0.00002	0.00008	0.00000	0.01616	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00025	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
652553	5866833	C95	0.53	0.00004	0.01369	0.00001	0.00006	0.00099	0.00002	0.00008	0.00000	0.01575	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00025	0.00000	0.00002	0.00024	0.00000	0.00002	0.00023
651537	5866940	C96	0.59	0.00004	0.01504	0.00001	0.00007	0.00109	0.00002	0.00008	0.00000	0.01730	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
651680	5866973	C97	0.58	0.00004	0.01479	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01702	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
652221	5867025	C98	0.54	0.00004	0.01392	0.00001	0.00007	0.00100	0.00002	0.00008	0.00000	0.01601	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00025	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
652077	5867051	C99	0.55	0.00004	0.01412	0.00001	0.00007	0.00102	0.00002	0.00008	0.00000	0.01624	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
651961	5867112	C100	0.56	0.00004	0.01428	0.00001	0.00007	0.00103	0.00002	0.00008	0.00000	0.01643	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
651905	5867245	C101	0.56	0.00004	0.01426	0.00001	0.00007	0.00103	0.00002	0.00008	0.00000	0.01640	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
651748	5867033	C102	0.57	0.00004	0.01465	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01685	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651696	5867089	C103	0.57	0.00004	0.01467	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01688	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651770	5867105	C104	0.57	0.00004	0.01457	0.00001	0.00007	0.00105	0.00002	0.00008	0.00000	0.01676	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651729	5867176	C105	0.57	0.00004	0.01458	0.00001	0.00007	0.00105	0.00002	0.00008	0.00000	0.01677	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651644	5867146	C106	0.57	0.00004	0.01471	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01692	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
651661	5867207	C107	0.57	0.00004	0.01464	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01685	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651724	5867266	C108	0.57	0.00004	0.01451	0.00001	0.00007	0.00105	0.00002	0.00008	0.00000	0.01669	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651643	5867292	C109	0.57	0.00004	0.01460	0.00001	0.00007	0.00105	0.00002	0.00008	0.00000	0.01679	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651530	5867285	C110	0.58	0.00004	0.01476	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01698	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
651454	5867326	C111	0.58	0.00004	0.01482	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01705	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
651429	5867373	C112	0.58	0.00004	0.01482	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01705	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
651534	5867399	C113	0.57	0.00004	0.01466	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01687	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651493	5867516	C114	0.57	0.00004	0.01463	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01683	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
651408	5867479	C115	0.58	0.00004	0.01477	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01699	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
651364	5867523	C116	0.58	0.00004	0.01481	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01703	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
651278	5867742	C117	0.58	0.00004	0.01476	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01698	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
651350	5867873	C118	0.57	0.00004	0.01456	0.00001	0.00007	0.00105	0.00002	0.00008	0.00000	0.01675	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
644982	5868164	C119	0.98	0.00007	0.02522	0.00001	0.00012	0.00182	0.00003	0.00014	0.00000	0.02902	0.00000	0.00002	0.00000	0.00000	0.00037	0.00000	0.00000	0.00002	0.00046	0.00000	0.00003	0.00045	0.00001	0.00004	0.00043
645736	5872547	C120	0.62	0.00005	0.01590	0.00001	0.00007	0.00115	0.00002	0.00009	0.00000	0.01830	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00029	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
647298	5871617	C121	0.55	0.00004	0.01409	0.00001	0.00007	0.00102	0.00002	0.00008	0.00000	0.01621	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00025	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
647380	5872093	C122	0.52	0.00004	0.01346	0.00001	0.00006	0.00097	0.00002	0.00007	0.00000	0.01548	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00024	0.00000	0.00002	0.00024	0.00000	0.00002	0.00023
647567	5872814	C123	0.49	0.00004	0.01245	0.00001	0.00006	0.00090	0.00002	0.00007	0.00000	0.01432	0.00000	0.00001	0.00000	0.00000	0.00018	0.00000	0.00000	0.00001	0.00022	0.00000	0.00002	0.00022	0.00000	0.00002	0.00021
648994	5873411	C124	0.42	0.00003	0.01082	0.00001	0.00005	0.00078	0.00001	0.00006	0.00000	0.01245	0.00000	0.00001	0.00000	0.00000	0.00016	0.00000	0.00000	0.00001	0.00020	0.00000	0.00001	0.00019	0.00000	0.00002	0.00019
648810	5872842	C125	0.45	0.00003	0.01153	0.00001	0.00005	0.00083	0.00002	0.00006	0.00000	0.01327	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00001	0.00021	0.00000	0.00002	0.00020
649250	5872924	C126	0.44	0.00003	0.01125	0.00001	0.00005	0.00081	0.00001	0.00006	0.00000	0.01294	0.00000	0.00001	0.00000	0.00000	0.00016	0.00000	0.00000	0.00001	0.00020	0.00000	0.00001	0.00020	0.00000	0.00002	0.00019
649691	5872831	C127	0.44	0.00003	0.01118	0.00001	0.00005	0.00081	0.00001	0.00006	0.00000	0.01286	0.00000	0.00001	0.00000	0.00000	0.00016	0.00000	0.00000	0.00001	0.00020	0.00000	0.00001	0.00020	0.00000	0.00002	0.00019
649454	5872485	C128	0.45	0.00003	0.01166	0.00001	0.00005	0.00084	0.00002	0.00006	0.00000	0.01341	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00001	0.00021	0.00000	0.00002	0.00020
648506	5871449	C129	0.52	0.00004	0.01339	0.00001	0.00006	0.00097	0.00002	0.00007	0.00000	0.01541	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00024	0.00000	0.00002	0.00024	0.00000	0.00002	0.00023
648477	5871383	C130	0.53	0.00004	0.01349	0.00001	0.00006	0.00097	0.00002	0.00007	0.00000	0.01552	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00024	0.00000	0.00002	0.00024	0.00000	0.00002	0.00023
648480	5871299	C131	0.53	0.00004	0.01360	0.00001	0.00006	0.00098	0.00002	0.00008	0.00000	0.01564	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00025	0.00000	0.00002	0.00024	0.00000	0.00002	0.00023
649256	5871272	C132	0.51	0.00004	0.01315	0.00001	0.00006	0.00095	0.00002	0.00007	0.00000	0.01513	0.00000	0.00001	0.00000	0.00000	0.00019	0.00000	0.00000	0.00001	0.00024	0.00000	0.00002	0.00023	0.00000	0.00002	0.00023
649219	5871153	C133	0.52	0.00004	0.01332	0.00001	0.00006	0.00096	0.00002	0.00007	0.00000	0.01532	0.00000	0.00001	0.00000	0.00000	0.00019	0.00000	0.00000	0.00001	0.00024	0.00000	0.00002	0.00024	0.00000	0.00002	0.00023
649040	5870831	C134	0.54	0.00004	0.01383	0.00001	0.00006	0.00100	0.00002	0.00008	0.00000	0.01591	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00025	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
648373	5871125	C135	0.54	0.00004	0.01391	0.00001	0.00007	0.00100	0.00002	0.00008	0.00000	0.01601	0.00000	0.00001	0.00000	0.00000	0.00020	0.00000	0.00000	0.00001	0.00025	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
648315	5870872	C136	0.56	0.00004	0.01428	0.00001	0.00007	0.00103	0.00002	0.00008	0.00000	0.01643	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
647828	5870049	C137	0.62	0.00005	0.01586	0.00001	0.00007	0.00114	0.00002	0.00009	0.00000	0.01825	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00029	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
647878	5869444	C138	0.65	0.00005	0.01664	0.00001	0.00008	0.00120	0.00002	0.00009	0.00000	0.01915	0.00000	0.00001	0.00000	0.00000	0.00024	0.00000	0.00000	0.00001	0.00030	0.00000	0.00002	0.00030	0.00000	0.00003	0.00029
648314	5870737	C139	0.56	0.00004	0.01446	0.00001	0.00007	0.00104	0.00002	0.00008	0.00000	0.01663	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
648272	5870692	C140	0.57	0.00004	0.01455	0.00001	0.00007	0.00105	0.00002	0.00008	0.00000	0.01674	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
648269	5870647	C141	0.57	0.00004	0.01462	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01682	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
648258	5870593	C142	0.57	0.00004	0.01470	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01691	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	0.01%	2.57%	0.002%	0.01%	0.19%	0.003%	0.01%	0.000003%	2.95%	0.00004%	0.002%	0.0005%	0.0003%	0.04%	0.0001%	0.00004%	0.002%	0.05%	0.0002%	0.003%	0.05%	0.001%	0.004%	0.04%
			Total Particulate Matter Concentration (ug/m^3)																								
648264	5870554	C143	0.57	0.00004	0.01474	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01696	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
648270	5870506	C144	0.58	0.00004	0.01480	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01703	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
648272	5870458	C145	0.58	0.00004	0.01487	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01711	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00025
648265	5870409	C146	0.58	0.00004	0.01494	0.00001	0.00007	0.00108	0.00002	0.00008	0.00000	0.01719	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648284	5870335	C147	0.59	0.00004	0.01503	0.00001	0.00007	0.00108	0.00002	0.00008	0.00000	0.01729	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648252	5870309	C148	0.59	0.00004	0.01510	0.00001	0.00007	0.00109	0.00002	0.00008	0.00000	0.01737	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
649181	5870379	C149	0.55	0.00004	0.01423	0.00001	0.00007	0.00103	0.00002	0.00008	0.00000	0.01637	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
648970	5869837	C150	0.59	0.00004	0.01508	0.00001	0.00007	0.00109	0.00002	0.00008	0.00000	0.01735	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648958	5869792	C151	0.59	0.00004	0.01515	0.00001	0.00007	0.00109	0.00002	0.00008	0.00000	0.01743	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648936	5869728	C152	0.59	0.00004	0.01525	0.00001	0.00007	0.00110	0.00002	0.00008	0.00000	0.01755	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648920	5869646	C153	0.60	0.00004	0.01538	0.00001	0.00007	0.00111	0.00002	0.00008	0.00000	0.01769	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648852	5870349	C154	0.57	0.00004	0.01457	0.00001	0.00007	0.00105	0.00002	0.00008	0.00000	0.01676	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
648843	5870252	C155	0.57	0.00004	0.01470	0.00001	0.00007	0.00106	0.00002	0.00008	0.00000	0.01691	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
648898	5870384	C156	0.56	0.00004	0.01449	0.00001	0.00007	0.00105	0.00002	0.00008	0.00000	0.01666	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
648951	5870402	C157	0.56	0.00004	0.01442	0.00001	0.00007	0.00104	0.00002	0.00008	0.00000	0.01659	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00026	0.00000	0.00002	0.00025
649025	5870559	C158	0.55	0.00004	0.01417	0.00001	0.00007	0.00102	0.00002	0.00008	0.00000	0.01630	0.00000	0.00001	0.00000	0.00000	0.00021	0.00000	0.00000	0.00001	0.00026	0.00000	0.00002	0.00025	0.00000	0.00002	0.00024
648631	5869828	C159	0.60	0.00004	0.01541	0.00001	0.00007	0.00111	0.00002	0.00009	0.00000	0.01773	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648642	5869878	C160	0.60	0.00004	0.01534	0.00001	0.00007	0.00111	0.00002	0.00008	0.00000	0.01765	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648651	5869930	C161	0.60	0.00004	0.01527	0.00001	0.00007	0.00110	0.00002	0.00008	0.00000	0.01757	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648642	5870001	C162	0.59	0.00004	0.01519	0.00001	0.00007	0.00110	0.00002	0.00008	0.00000	0.01747	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648638	5870052	C163	0.59	0.00004	0.01513	0.00001	0.00007	0.00109	0.00002	0.00008	0.00000	0.01740	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648632	5870102	C164	0.59	0.00004	0.01507	0.00001	0.00007	0.00109	0.00002	0.00008	0.00000	0.01734	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648640	5870160	C165	0.58	0.00004	0.01499	0.00001	0.00007	0.00108	0.00002	0.00008	0.00000	0.01724	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648630	5870277	C166	0.58	0.00004	0.01484	0.00001	0.00007	0.00107	0.00002	0.00008	0.00000	0.01707	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00026	0.00000	0.00003	0.00025
648618	5870215	C167	0.58	0.00004	0.01493	0.00001	0.00007	0.00108	0.00002	0.00008	0.00000	0.01718	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648594	5870174	C168	0.58	0.00004	0.01501	0.00001	0.00007	0.00108	0.00002	0.00008	0.00000	0.01726	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648572	5870134	C169	0.59	0.00004	0.01508	0.00001	0.00007	0.00109	0.00002	0.00008	0.00000	0.01735	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648562	5870092	C170	0.59	0.00004	0.01514	0.00001	0.00007	0.00109	0.00002	0.00008	0.00000	0.01742	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00027	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648563	5870003	C171	0.59	0.00004	0.01526	0.00001	0.00007	0.00110	0.00002	0.00008	0.00000	0.01756	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648562	5869933	C172	0.60	0.00004	0.01535	0.00001	0.00007	0.00111	0.00002	0.00008	0.00000	0.01766	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648542	5869871	C173	0.60	0.00004	0.01546	0.00001	0.00007	0.00112	0.00002	0.00009	0.00000	0.01778	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648509	5869939	C174	0.60	0.00004	0.01540	0.00001	0.00007	0.00111	0.00002	0.00009	0.00000	0.01772	0.00000	0.00001	0.00000	0.00000	0.00022	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00027	0.00000	0.00003	0.00026
648495	5869806	C175	0.61	0.00004	0.01558	0.00001	0.00007	0.00112	0.00002	0.00009	0.00000	0.01793	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648497	5869710	C176	0.61	0.00004	0.01570	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01807	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648450	5869788	C177	0.61	0.00004	0.01566	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01801	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648394	5869829	C178	0.61	0.00004	0.01565	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01800	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648333	5869845	C179	0.61	0.00004	0.01568	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01804	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648183	5869654	C180	0.63	0.00005	0.01606	0.00001	0.00008	0.00116	0.00002	0.00009	0.00000	0.01848	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00029	0.00000	0.00002	0.00029	0.00000	0.00003	0.00028
648163	5869723	C181	0.62	0.00005	0.01600	0.00001	0.00007	0.00115	0.00002	0.00009	0.00000	0.01840	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00029	0.00000	0.00002	0.00029	0.00000	0.00003	0.00027
648128	5869768	C182	0.62	0.00005	0.01597	0.00001	0.00007	0.00115	0.00002	0.00009	0.00000	0.01837	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00029	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648100	5869845	C183	0.62	0.00005	0.01588	0.00001	0.00007	0.00115	0.00002	0.00009	0.00000	0.01827	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00029	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648110	5869905	C184	0.62	0.00004	0.01581	0.00001	0.00007	0.00114	0.00002	0.00009	0.00000	0.01818	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00029	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648153	5869932	C185	0.61	0.00004	0.01572	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01809	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648059	5869943	C186	0.62	0.00004	0.01580	0.00001	0.00007	0.00114	0.00002	0.00009	0.00000	0.01818	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00029	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648034	5869998	C187	0.61	0.00004	0.01575	0.00001	0.00007	0.00114	0.00002	0.00009	0.00000	0.01812	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648094	5870000	C188	0.61	0.00004	0.01569	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01805	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648089	5870035	C189	0.61	0.00004	0.01564	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01800	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648087	5870095	C190	0.61	0.00004	0.01556	0.00001	0.00007	0.00112	0.00002	0.00009	0.00000	0.01790	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648099	5870138	C191	0.60	0.00004	0.01547	0.00001	0.00007	0.00112	0.00002	0.00009	0.00000	0.01780	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648165	5870013	C192	0.61	0.00004	0.01559	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01794	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648175	5870059	C193	0.60	0.00004	0.01552	0.00001	0.00007	0.00112	0.00002	0.00009	0.00000	0.01785	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648198	5870103	C194	0.60	0.00004	0.01544	0.00001	0.00007	0.00111	0.00002	0.00009	0.00000	0.01776	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00026
648206	5870040	C195	0.60	0.00004	0.01552	0.00001	0.00007	0.00112	0.00002	0.00009	0.00000	0.01785	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648201	5869958	C196	0.61	0.00004	0.01564	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01800	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648259	5870043	C197	0.60	0.00004	0.01546	0.00001	0.00007	0.00112	0.00002	0.00009	0.00000	0.01779	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648249	5869959	C198	0.61	0.00004	0.01559	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01794	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	0.01%	2.57%	0.002%	0.01%	0.19%	0.003%	0.01%	0.000003%	2.95%	0.00004%	0.002%	0.0005%	0.0003%	0.04%	0.0001%	0.00004%	0.002%	0.05%	0.0002%	0.003%	0.05%	0.001%	0.004%	0.04%
			Total Particulate Matter Concentration (ug/m^3)																								
648277	5869977	C199	0.61	0.00004	0.01555	0.00001	0.00007	0.00112	0.00002	0.00009	0.00000	0.01788	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
648280	5869924	C200	0.61	0.00004	0.01562	0.00001	0.00007	0.00113	0.00002	0.00009	0.00000	0.01797	0.00000	0.00001	0.00000	0.00000	0.00023	0.00000	0.00000	0.00001	0.00028	0.00000	0.00002	0.00028	0.00000	0.00003	0.00027
651945	5870271	C201	0.45	0.00003	0.01156	0.00001	0.00005	0.00083	0.00002	0.00006	0.00000	0.01330	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00001	0.00021	0.00000	0.00002	0.00020
651677	5870154	C202	0.46	0.00003	0.01188	0.00001	0.00006	0.00086	0.00002	0.00007	0.00000	0.01367	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00002	0.00021	0.00000	0.00002	0.00020
651358	5870320	C203	0.47	0.00003	0.01205	0.00001	0.00006	0.00087	0.00002	0.00007	0.00000	0.01386	0.00000	0.00001	0.00000	0.00000	0.00018	0.00000	0.00000	0.00001	0.00022	0.00000	0.00002	0.00022	0.00000	0.00002	0.00021
651367	5870393	C204	0.47	0.00003	0.01197	0.00001	0.00006	0.00086	0.00002	0.00007	0.00000	0.01377	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00022	0.00000	0.00002	0.00021	0.00000	0.00002	0.00021
651356	5870439	C205	0.47	0.00003	0.01193	0.00001	0.00006	0.00086	0.00002	0.00007	0.00000	0.01373	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00022	0.00000	0.00002	0.00021	0.00000	0.00002	0.00020
651157	5870971	C206	0.46	0.00003	0.01185	0.00001	0.00006	0.00086	0.00002	0.00007	0.00000	0.01363	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00001	0.00021	0.00000	0.00002	0.00020
651172	5870889	C207	0.46	0.00003	0.01188	0.00001	0.00006	0.00086	0.00002	0.00007	0.00000	0.01367	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00002	0.00021	0.00000	0.00002	0.00020
651287	5870887	C208	0.45	0.00003	0.01161	0.00001	0.00005	0.00084	0.00002	0.00006	0.00000	0.01336	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00001	0.00021	0.00000	0.00002	0.00020
651278	5870756	C209	0.46	0.00003	0.01179	0.00001	0.00006	0.00085	0.00002	0.00007	0.00000	0.01356	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00001	0.00021	0.00000	0.00002	0.00020
651334	5870667	C210	0.46	0.00003	0.01174	0.00001	0.00005	0.00085	0.00002	0.00006	0.00000	0.01351	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00001	0.00021	0.00000	0.00002	0.00020
651541	5870880	C211	0.44	0.00003	0.01138	0.00001	0.00005	0.00082	0.00002	0.00006	0.00000	0.01310	0.00000	0.00001	0.00000	0.00000	0.00017	0.00000	0.00000	0.00001	0.00021	0.00000	0.00001	0.00020	0.00000	0.00002	0.00020
651555	5870971	C212	0.44	0.00003	0.01129	0.00001	0.00005	0.00082	0.00001	0.00006	0.00000	0.01299	0.00000	0.00001	0.00000	0.00000	0.00016	0.00000	0.00000	0.00001	0.00020	0.00000	0.00001	0.00020	0.00000	0.00002	0.00019
651664	5872079	C213	0.41	0.00003	0.01064	0.00001	0.00005	0.00077	0.00001	0.00006	0.00000	0.01224	0.00000	0.00001	0.00000	0.00000	0.00016	0.00000	0.00000	0.00001	0.00019	0.00000	0.00001	0.00019	0.00000	0.00002	0.00018
651168	5872216	C214	0.43	0.00003	0.01093	0.00001	0.00005	0.00079	0.00001	0.00006	0.00000	0.01257	0.00000	0.00001	0.00000	0.00000	0.00016	0.00000	0.00000	0.00001	0.00020	0.00000	0.00001	0.00020	0.00000	0.00002	0.00019
651309	5872616	C215	0.41	0.00003	0.01055	0.00001	0.00005	0.00076	0.00001	0.00006	0.00000	0.01213	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00019	0.00000	0.00001	0.00019	0.00000	0.00002	0.00018
651406	5872687	C216	0.41	0.00003	0.01044	0.00001	0.00005	0.00075	0.00001	0.00006	0.00000	0.01201	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00019	0.00000	0.00001	0.00019	0.00000	0.00002	0.00018
651702	5872788	C217	0.40	0.00003	0.01017	0.00001	0.00005	0.00073	0.00001	0.00006	0.00000	0.01170	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00018	0.00000	0.00001	0.00018	0.00000	0.00002	0.00017
652123	5872653	C218	0.39	0.00003	0.00998	0.00001	0.00005	0.00072	0.00001	0.00006	0.00000	0.01148	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00018	0.00000	0.00001	0.00018	0.00000	0.00002	0.00017
652137	5872385	C219	0.39	0.00003	0.01011	0.00001	0.00005	0.00073	0.00001	0.00006	0.00000	0.01163	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00018	0.00000	0.00001	0.00018	0.00000	0.00002	0.00017
651902	5872256	C220	0.40	0.00003	0.01036	0.00001	0.00005	0.00075	0.00001	0.00006	0.00000	0.01192	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00019	0.00000	0.00001	0.00018	0.00000	0.00002	0.00018
652139	5871372	C221	0.41	0.00003	0.01056	0.00001	0.00005	0.00076	0.00001	0.00006	0.00000	0.01215	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00019	0.00000	0.00001	0.00019	0.00000	0.00002	0.00018
652202	5871434	C222	0.41	0.00003	0.01047	0.00001	0.00005	0.00076	0.00001	0.00006	0.00000	0.01204	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00019	0.00000	0.00001	0.00019	0.00000	0.00002	0.00018
652479	5871780	C223	0.39	0.00003	0.01007	0.00001	0.00005	0.00073	0.00001	0.00006	0.00000	0.01159	0.00000	0.00001	0.00000	0.00000	0.00015	0.00000	0.00000	0.00001	0.00018	0.00000	0.00001	0.00018	0.00000	0.00002	0.00017
652688	5871967	C224	0.38	0.00003	0.00983	0.00001	0.00005	0.00071	0.00001	0.00005	0.00000	0.01130	0.00000	0.00001	0.00000	0.00000	0.00014	0.00000	0.00000	0.00001	0.00018	0.00000	0.00001	0.00018	0.00000	0.00002	0.00017
653634	5871447	C225	0.37	0.00003	0.00949	0.00001	0.00004	0.00068	0.00001	0.00005	0.00000	0.01092	0.00000	0.00001	0.00000	0.00000	0.00014	0.00000	0.00000	0.00001	0.00017	0.00000	0.00001	0.00017	0.00000	0.00002	0.00016
654237	5871709	C226	0.35	0.00003	0.00897	0.00001	0.00004	0.00065	0.00001	0.00005	0.00000	0.01032	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00002	0.00015
654126	5871774	C227	0.35	0.00003	0.00899	0.00001	0.00004	0.00065	0.00001	0.00005	0.00000	0.01034	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00002	0.00015
654058	5871822	C228	0.35	0.00003	0.00900	0.00001	0.00004	0.00065	0.00001	0.00005	0.00000	0.01036	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00002	0.00015
653897	5872230	C229	0.35	0.00003	0.00888	0.00001	0.00004	0.00064	0.00001	0.00005	0.00000	0.01021	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00002	0.00015
653958	5872375	C230	0.34	0.00002	0.00876	0.00001	0.00004	0.00063	0.00001	0.00005	0.00000	0.01008	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00001	0.00015
653813	5872764	C231	0.34	0.00002	0.00869	0.00001	0.00004	0.00063	0.00001	0.00005	0.00000	0.00999	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00001	0.00015
654316	5873211	C232	0.32	0.00002	0.00821	0.00000	0.00004	0.00059	0.00001	0.00005	0.00000	0.00944	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654464	5873391	C233	0.31	0.00002	0.00798	0.00000	0.00004	0.00058	0.00001	0.00004	0.00000	0.00918	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00014	0.00000	0.00001	0.00014	0.00000	0.00001	0.00014
654568	5873147	C234	0.31	0.00002	0.00804	0.00000	0.00004	0.00058	0.00001	0.00004	0.00000	0.00925	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014	0.00000	0.00001	0.00014
654435	5873112	C235	0.32	0.00002	0.00819	0.00000	0.00004	0.00059	0.00001	0.00005	0.00000	0.00942	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654502	5873072	C236	0.32	0.00002	0.00814	0.00000	0.00004	0.00059	0.00001	0.00004	0.00000	0.00936	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654560	5873037	C237	0.32	0.00002	0.00810	0.00000	0.00004	0.00058	0.00001	0.00004	0.00000	0.00932	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014	0.00000	0.00001	0.00014
654417	5873018	C238	0.32	0.00002	0.00825	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00949	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654533	5872976	C239	0.32	0.00002	0.00817	0.00000	0.00004	0.00059	0.00001	0.00005	0.00000	0.00940	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654475	5872843	C240	0.32	0.00002	0.00828	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00952	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654527	5872824	C241	0.32	0.00002	0.00825	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00949	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654585	5872884	C242	0.32	0.00002	0.00816	0.00000	0.00004	0.00059	0.00001	0.00005	0.00000	0.00939	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654712	5872759	C243	0.31	0.00002	0.00808	0.00000	0.00004	0.00058	0.00001	0.00004	0.00000	0.00930	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014	0.00000	0.00001	0.00014
654603	5872652	C244	0.32	0.00002	0.00830	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00954	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654615	5872495	C245	0.33	0.00002	0.00836	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00962	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654701	5872347	C246	0.33	0.00002	0.00838	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00964	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654827	5872301	C247	0.32	0.00002	0.00829	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00953	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654883	5872208	C248	0.32	0.00002	0.00830	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00955	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654891	5872150	C249	0.32	0.00002	0.00832	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00957	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654759	5872177	C250	0.33	0.00002	0.00844	0.00000	0.00004	0.00061	0.00001	0.00005	0.00000	0.00971	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
654788	5872127	C251	0.33	0.00002	0.00845	0.00000	0.00004	0.00061	0.00001	0.00005	0.00000	0.00972	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
655144	5871118	C252	0.34	0.00002	0.00872	0.00001	0.00004	0.00063	0.00001	0.00005	0.00000	0.01003	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00001	0.00015
648102	5875979	C253	0.35	0.00003	0.00893	0.00001	0.00004	0.00064	0.00001	0.00005	0.00000	0.01027	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00002	0.00015
651945	5874721	C254	0.34	0.00002	0.00863	0.00001	0.00004	0.00062	0.00001	0.00005	0.00000	0.00992	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	**0.01%**	**2.57%**	**0.002%**	**0.01%**	**0.19%**	**0.003%**	**0.01%**	**0.000003%**	**2.95%**	**0.00004%**	**0.002%**	**0.0005%**	**0.0003%**	**0.04%**	**0.0001%**	**0.00004%**	**0.002%**	**0.05%**	**0.0002%**	**0.003%**	**0.05%**	**0.001%**	**0.004%**	**0.04%**
			Total Particulate Matter Concentration (ug/m^3)																								
652653	5874100	C255	0.34	0.00003	0.00879	0.00001	0.00004	0.00063	0.00001	0.00005	0.00000	0.01011	0.00000	0.00001	0.00000	0.00000	0.00013	0.00000	0.00000	0.00001	0.00016	0.00000	0.00001	0.00016	0.00000	0.00001	0.00015
653035	5874384	C256	0.33	0.00002	0.00841	0.00000	0.00004	0.00061	0.00001	0.00005	0.00000	0.00968	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
653048	5874439	C257	0.33	0.00002	0.00837	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00963	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
653058	5874488	C258	0.32	0.00002	0.00834	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00959	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
653088	5874541	C259	0.32	0.00002	0.00829	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00954	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
653119	5874586	C260	0.32	0.00002	0.00825	0.00000	0.00004	0.00060	0.00001	0.00005	0.00000	0.00949	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
653053	5874685	C261	0.32	0.00002	0.00822	0.00000	0.00004	0.00059	0.00001	0.00005	0.00000	0.00946	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00015	0.00000	0.00001	0.00015	0.00000	0.00001	0.00014
653419	5874771	C262	0.31	0.00002	0.00799	0.00000	0.00004	0.00058	0.00001	0.00004	0.00000	0.00919	0.00000	0.00001	0.00000	0.00000	0.00012	0.00000	0.00000	0.00001	0.00014	0.00000	0.00001	0.00014	0.00000	0.00001	0.00014
653624	5874867	C263	0.31	0.00002	0.00786	0.00000	0.00004	0.00057	0.00001	0.00004	0.00000	0.00904	0.00000	0.00001	0.00000	0.00000	0.00011	0.00000	0.00000	0.00001	0.00014	0.00000	0.00001	0.00014	0.00000	0.00001	0.00013
653740	5875312	C264	0.29	0.00002	0.00745	0.00000	0.00003	0.00054	0.00001	0.00004	0.00000	0.00857	0.00000	0.00001	0.00000	0.00000	0.00011	0.00000	0.00000	0.00000	0.00013	0.00000	0.00001	0.00013	0.00000	0.00001	0.00013
653331	5875587	C265	0.29	0.00002	0.00745	0.00000	0.00003	0.00054	0.00001	0.00004	0.00000	0.00857	0.00000	0.00001	0.00000	0.00000	0.00011	0.00000	0.00000	0.00000	0.00013	0.00000	0.00001	0.00013	0.00000	0.00001	0.00013
653431	5876074	C266	0.28	0.00002	0.00706	0.00000	0.00003	0.00051	0.00001	0.00004	0.00000	0.00812	0.00000	0.00001	0.00000	0.00000	0.00010	0.00000	0.00000	0.00000	0.00013	0.00000	0.00001	0.00013	0.00000	0.00001	0.00012
652687	5876590	C267	0.27	0.00002	0.00691	0.00000	0.00003	0.00050	0.00001	0.00004	0.00000	0.00795	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000	0.00000	0.00012	0.00000	0.00001	0.00012	0.00000	0.00001	0.00012
653006	5877664	C268	0.23	0.00002	0.00582	0.00000	0.00003	0.00042	0.00001	0.00003	0.00000	0.00670	0.00000	0.00000	0.00000	0.00000	0.00008	0.00000	0.00000	0.00000	0.00011	0.00000	0.00001	0.00010	0.00000	0.00001	0.00010
652913	5878002	C269	0.22	0.00002	0.00553	0.00000	0.00003	0.00040	0.00001	0.00003	0.00000	0.00636	0.00000	0.00000	0.00000	0.00000	0.00008	0.00000	0.00000	0.00000	0.00010	0.00000	0.00001	0.00010	0.00000	0.00001	0.00009
654087	5876771	C270	0.25	0.00002	0.00633	0.00000	0.00003	0.00046	0.00001	0.00003	0.00000	0.00728	0.00000	0.00000	0.00000	0.00000	0.00009	0.00000	0.00000	0.00000	0.00011	0.00000	0.00001	0.00011	0.00000	0.00001	0.00011
654390	5876812	C271	0.24	0.00002	0.00620	0.00000	0.00003	0.00045	0.00001	0.00003	0.00000	0.00713	0.00000	0.00000	0.00000	0.00000	0.00009	0.00000	0.00000	0.00000	0.00011	0.00000	0.00001	0.00011	0.00000	0.00001	0.00011
654516	5876861	C272	0.24	0.00002	0.00613	0.00000	0.00003	0.00044	0.00001	0.00003	0.00000	0.00705	0.00000	0.00000	0.00000	0.00000	0.00009	0.00000	0.00000	0.00000	0.00011	0.00000	0.00001	0.00011	0.00000	0.00001	0.00011
654613	5877129	C273	0.23	0.00002	0.00591	0.00000	0.00003	0.00043	0.00001	0.00003	0.00000	0.00679	0.00000	0.00000	0.00000	0.00000	0.00009	0.00000	0.00000	0.00000	0.00011	0.00000	0.00001	0.00011	0.00000	0.00001	0.00010
654712	5877345	C274	0.22	0.00002	0.00573	0.00000	0.00003	0.00041	0.00001	0.00003	0.00000	0.00659	0.00000	0.00000	0.00000	0.00000	0.00008	0.00000	0.00000	0.00000	0.00010	0.00000	0.00001	0.00010	0.00000	0.00001	0.00010
655194	5877509	C275	0.21	0.00002	0.00543	0.00000	0.00003	0.00039	0.00001	0.00003	0.00000	0.00625	0.00000	0.00000	0.00000	0.00000	0.00008	0.00000	0.00000	0.00000	0.00010	0.00000	0.00001	0.00010	0.00000	0.00001	0.00009
655948	5877716	C276	0.19	0.00001	0.00499	0.00000	0.00002	0.00036	0.00001	0.00003	0.00000	0.00574	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00000	0.00009	0.00000	0.00001	0.00009	0.00000	0.00001	0.00009
655845	5877809	C277	0.19	0.00001	0.00496	0.00000	0.00002	0.00036	0.00001	0.00003	0.00000	0.00570	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00000	0.00009	0.00000	0.00001	0.00009	0.00000	0.00001	0.00009
655662	5878268	C278	0.18	0.00001	0.00470	0.00000	0.00002	0.00034	0.00001	0.00003	0.00000	0.00541	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00000	0.00008	0.00000	0.00001	0.00008	0.00000	0.00001	0.00008
655612	5878362	C279	0.18	0.00001	0.00464	0.00000	0.00002	0.00034	0.00001	0.00003	0.00000	0.00534	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00001	0.00008	0.00000	0.00001	0.00008	0.00000	0.00001	0.00008
655714	5878551	C280	0.17	0.00001	0.00446	0.00000	0.00002	0.00032	0.00001	0.00002	0.00000	0.00513	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00000	0.00008	0.00000	0.00001	0.00008	0.00000	0.00001	0.00008
655750	5879082	C281	0.16	0.00001	0.00402	0.00000	0.00002	0.00029	0.00001	0.00002	0.00000	0.00462	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
655705	5879176	C282	0.15	0.00001	0.00393	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00453	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
655698	5879229	C283	0.15	0.00001	0.00389	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00448	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
655692	5879276	C284	0.15	0.00001	0.00385	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00443	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
655687	5879312	C285	0.15	0.00001	0.00383	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00440	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
655663	5879335	C286	0.15	0.00001	0.00381	0.00000	0.00002	0.00027	0.00001	0.00002	0.00000	0.00438	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
655586	5879390	C287	0.15	0.00001	0.00378	0.00000	0.00002	0.00027	0.00001	0.00002	0.00000	0.00434	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00006
655568	5879451	C288	0.15	0.00001	0.00372	0.00000	0.00002	0.00027	0.00000	0.00002	0.00000	0.00428	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00006
655536	5879531	C289	0.14	0.00001	0.00366	0.00000	0.00002	0.00026	0.00000	0.00002	0.00000	0.00421	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00006
655510	5879565	C290	0.14	0.00001	0.00363	0.00000	0.00002	0.00026	0.00000	0.00002	0.00000	0.00418	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655522	5879635	C291	0.14	0.00001	0.00357	0.00000	0.00002	0.00026	0.00000	0.00002	0.00000	0.00411	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655470	5879667	C292	0.14	0.00001	0.00355	0.00000	0.00002	0.00026	0.00000	0.00002	0.00000	0.00408	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655759	5879806	C293	0.13	0.00001	0.00337	0.00000	0.00002	0.00024	0.00000	0.00002	0.00000	0.00387	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655849	5879887	C294	0.13	0.00001	0.00328	0.00000	0.00002	0.00024	0.00000	0.00002	0.00000	0.00377	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655904	5879874	C295	0.13	0.00001	0.00328	0.00000	0.00002	0.00024	0.00000	0.00002	0.00000	0.00377	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655920	5879833	C296	0.13	0.00001	0.00331	0.00000	0.00002	0.00024	0.00000	0.00002	0.00000	0.00381	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655937	5879788	C297	0.13	0.00001	0.00335	0.00000	0.00002	0.00024	0.00000	0.00002	0.00000	0.00385	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655959	5879743	C298	0.13	0.00001	0.00338	0.00000	0.00002	0.00024	0.00000	0.00002	0.00000	0.00388	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
655981	5879336	C299	0.15	0.00001	0.00372	0.00000	0.00002	0.00027	0.00000	0.00002	0.00000	0.00428	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00006
656134	5879093	C300	0.15	0.00001	0.00389	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00447	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
656122	5879037	C301	0.15	0.00001	0.00394	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00453	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
656200	5878850	C302	0.16	0.00001	0.00407	0.00000	0.00002	0.00029	0.00001	0.00002	0.00000	0.00468	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
656222	5878811	C303	0.16	0.00001	0.00410	0.00000	0.00002	0.00030	0.00001	0.00002	0.00000	0.00471	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
656264	5878773	C304	0.16	0.00001	0.00412	0.00000	0.00002	0.00030	0.00001	0.00002	0.00000	0.00473	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
656283	5878750	C305	0.16	0.00001	0.00413	0.00000	0.00002	0.00030	0.00001	0.00002	0.00000	0.00475	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
656569	5878718	C306	0.16	0.00001	0.00405	0.00000	0.00002	0.00029	0.00001	0.00002	0.00000	0.00466	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
656610	5878724	C307	0.16	0.00001	0.00403	0.00000	0.00002	0.00029	0.00001	0.00002	0.00000	0.00464	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
656672	5878658	C308	0.16	0.00001	0.00406	0.00000	0.00002	0.00029	0.00001	0.00002	0.00000	0.00467	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
656727	5878687	C309	0.16	0.00001	0.00401	0.00000	0.00002	0.00029	0.00001	0.00002	0.00000	0.00462	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007	0.00000	0.00001	0.00007
657116	5878638	C310	0.15	0.00001	0.00390	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00448	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	0.01%	2.57%	0.002%	0.01%	0.19%	0.003%	0.01%	0.000003%	2.95%	0.00004%	0.002%	0.0005%	0.0003%	0.04%	0.0001%	0.00004%	0.002%	0.05%	0.0002%	0.003%	0.05%	0.001%	0.004%	0.04%
			Total Particulate Matter Concentration (ug/m^3)																								
657218	5878747	C311	0.15	0.00001	0.00379	0.00000	0.00002	0.00027	0.00001	0.00002	0.00000	0.00436	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00006
656827	5878816	C312	0.15	0.00001	0.00388	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00447	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
656811	5878856	C313	0.15	0.00001	0.00387	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00445	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
656761	5878872	C314	0.15	0.00001	0.00387	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00445	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
656749	5878923	C315	0.15	0.00001	0.00384	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00442	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
656727	5878962	C316	0.15	0.00001	0.00382	0.00000	0.00002	0.00028	0.00001	0.00002	0.00000	0.00440	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
656706	5879002	C317	0.15	0.00001	0.00380	0.00000	0.00002	0.00027	0.00001	0.00002	0.00000	0.00437	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00007
656675	5879036	C318	0.15	0.00001	0.00378	0.00000	0.00002	0.00027	0.00001	0.00002	0.00000	0.00435	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00006
656652	5879085	C319	0.15	0.00001	0.00375	0.00000	0.00002	0.00027	0.00000	0.00002	0.00000	0.00431	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00006
656636	5879131	C320	0.14	0.00001	0.00372	0.00000	0.00002	0.00027	0.00000	0.00002	0.00000	0.00428	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00007	0.00000	0.00001	0.00006
656387	5879799	C321	0.13	0.00001	0.00324	0.00000	0.00002	0.00023	0.00000	0.00002	0.00000	0.00373	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
656370	5879851	C322	0.12	0.00001	0.00320	0.00000	0.00001	0.00023	0.00000	0.00002	0.00000	0.00368	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00005
656353	5879896	C323	0.12	0.00001	0.00317	0.00000	0.00001	0.00023	0.00000	0.00002	0.00000	0.00365	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00005
653229	5878711	C324	0.19	0.00001	0.00478	0.00000	0.00002	0.00034	0.00001	0.00003	0.00000	0.00550	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000	0.00000	0.00009	0.00000	0.00001	0.00009	0.00000	0.00001	0.00008
659194	5877695	C325	0.14	0.00001	0.00358	0.00000	0.00002	0.00026	0.00000	0.00002	0.00000	0.00411	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000	0.00006	0.00000	0.00001	0.00006
659742	5879642	C326	0.09	0.00001	0.00235	0.00000	0.00001	0.00017	0.00000	0.00001	0.00000	0.00270	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00000	0.00004	0.00000	0.00000	0.00004	0.00000	0.00000	0.00004
659782	5879684	C327	0.09	0.00001	0.00232	0.00000	0.00001	0.00017	0.00000	0.00001	0.00000	0.00266	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00000	0.00004	0.00000	0.00000	0.00004	0.00000	0.00000	0.00004
659872	5879695	C328	0.09	0.00001	0.00227	0.00000	0.00001	0.00016	0.00000	0.00001	0.00000	0.00262	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00000	0.00004	0.00000	0.00000	0.00004	0.00000	0.00000	0.00004
660349	5879906	C329	0.08	0.00001	0.00200	0.00000	0.00001	0.00014	0.00000	0.00001	0.00000	0.00230	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00000	0.00004	0.00000	0.00000	0.00004	0.00000	0.00000	0.00003
660518	5879947	C330	0.08	0.00001	0.00193	0.00000	0.00001	0.00014	0.00000	0.00001	0.00000	0.00222	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00003	0.00000	0.00000	0.00003
661421	5879718	C331	0.07	0.00000	0.00170	0.00000	0.00001	0.00012	0.00000	0.00001	0.00000	0.00195	0.00000	0.00000	0.00000	0.00000	0.00002	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00003	0.00000	0.00000	0.00003
661493	5879729	C332	0.06	0.00000	0.00167	0.00000	0.00001	0.00012	0.00000	0.00001	0.00000	0.00192	0.00000	0.00000	0.00000	0.00000	0.00002	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00003	0.00000	0.00000	0.00003
646105	5852102	C333	2.83	0.00021	0.07273	0.00004	0.00034	0.00525	0.00010	0.00040	0.00000	0.08367	0.00000	0.00005	0.00001	0.00001	0.00106	0.00000	0.00000	0.00005	0.00131	0.00000	0.00009	0.00130	0.00002	0.00012	0.00125
647139	5852170	C334	2.62	0.00019	0.06720	0.00004	0.00031	0.00485	0.00009	0.00037	0.00000	0.07731	0.00000	0.00005	0.00001	0.00001	0.00098	0.00000	0.00000	0.00004	0.00121	0.00000	0.00008	0.00120	0.00002	0.00011	0.00115
643788	5855912	C335	4.27	0.00031	0.10964	0.00006	0.00051	0.00791	0.00015	0.00061	0.00000	0.12614	0.00000	0.00008	0.00002	0.00001	0.00160	0.00000	0.00000	0.00007	0.00198	0.00001	0.00014	0.00196	0.00003	0.00019	0.00188
641867	5855100	C336	9.88	0.00072	0.25363	0.00015	0.00119	0.01831	0.00034	0.00140	0.00000	0.29179	0.00000	0.00018	0.00005	0.00003	0.00370	0.00001	0.00000	0.00017	0.00458	0.00002	0.00032	0.00453	0.00006	0.00043	0.00435
642951	5852301	C337	4.95	0.00036	0.12705	0.00007	0.00059	0.00917	0.00017	0.00070	0.00000	0.14616	0.00000	0.00009	0.00002	0.00001	0.00185	0.00000	0.00000	0.00008	0.00230	0.00001	0.00016	0.00227	0.00003	0.00022	0.00218
640185	5848135	C338	4.17	0.00030	0.10707	0.00006	0.00050	0.00773	0.00014	0.00059	0.00000	0.12318	0.00000	0.00008	0.00002	0.00001	0.00156	0.00000	0.00000	0.00007	0.00193	0.00001	0.00014	0.00191	0.00002	0.00018	0.00184
643735	5844087	C339	1.45	0.00011	0.03715	0.00002	0.00017	0.00268	0.00005	0.00021	0.00000	0.04274	0.00000	0.00003	0.00001	0.00000	0.00054	0.00000	0.00000	0.00002	0.00067	0.00000	0.00005	0.00066	0.00001	0.00006	0.00064
643567	5839358	C340	0.83	0.00006	0.02126	0.00001	0.00010	0.00153	0.00003	0.00012	0.00000	0.02446	0.00000	0.00002	0.00000	0.00000	0.00031	0.00000	0.00000	0.00001	0.00038	0.00000	0.00003	0.00038	0.00000	0.00004	0.00036
634702	5859483	C341	7.10	0.00052	0.18226	0.00011	0.00085	0.01315	0.00024	0.00101	0.00000	0.20968	0.00000	0.00013	0.00003	0.00002	0.00266	0.00001	0.00000	0.00012	0.00329	0.00001	0.00023	0.00325	0.00004	0.00031	0.00313
634666	5859995	C342	5.77	0.00042	0.14798	0.00009	0.00069	0.01068	0.00020	0.00082	0.00000	0.17024	0.00000	0.00011	0.00003	0.00002	0.00216	0.00001	0.00000	0.00010	0.00267	0.00001	0.00019	0.00264	0.00003	0.00025	0.00254
634659	5860951	C343	3.92	0.00029	0.10064	0.00006	0.00047	0.00726	0.00013	0.00056	0.00000	0.11577	0.00000	0.00007	0.00002	0.00001	0.00147	0.00000	0.00000	0.00007	0.00182	0.00001	0.00013	0.00180	0.00002	0.00017	0.00173
632662	5861641	C344	5.15	0.00038	0.13216	0.00008	0.00062	0.00954	0.00018	0.00073	0.00000	0.15204	0.00000	0.00010	0.00002	0.00001	0.00193	0.00000	0.00000	0.00009	0.00239	0.00001	0.00017	0.00236	0.00003	0.00022	0.00227
632659	5861856	C345	4.81	0.00035	0.12352	0.00007	0.00058	0.00891	0.00016	0.00068	0.00000	0.14210	0.00000	0.00009	0.00002	0.00001	0.00180	0.00000	0.00000	0.00008	0.00223	0.00001	0.00016	0.00220	0.00003	0.00021	0.00212
633647	5862664	C346	2.79	0.00020	0.07147	0.00004	0.00033	0.00516	0.00009	0.00039	0.00000	0.08222	0.00000	0.00005	0.00001	0.00001	0.00104	0.00000	0.00000	0.00005	0.00129	0.00000	0.00009	0.00128	0.00002	0.00012	0.00123
634888	5860864	C347	4.00	0.00029	0.10252	0.00006	0.00048	0.00740	0.00014	0.00057	0.00000	0.11795	0.00000	0.00007	0.00002	0.00001	0.00150	0.00000	0.00000	0.00007	0.00185	0.00001	0.00013	0.00183	0.00002	0.00017	0.00176
634890	5860888	C348	3.96	0.00029	0.10154	0.00006	0.00047	0.00733	0.00013	0.00056	0.00000	0.11681	0.00000	0.00007	0.00002	0.00001	0.00148	0.00000	0.00000	0.00007	0.00183	0.00001	0.00013	0.00181	0.00002	0.00017	0.00174
635091	5860937	C349	3.77	0.00028	0.09679	0.00006	0.00045	0.00699	0.00013	0.00053	0.00000	0.11134	0.00000	0.00007	0.00002	0.00001	0.00141	0.00000	0.00000	0.00006	0.00175	0.00001	0.00012	0.00173	0.00002	0.00016	0.00166
635065	5860944	C350	3.78	0.00028	0.09711	0.00006	0.00045	0.00701	0.00013	0.00054	0.00000	0.11172	0.00000	0.00007	0.00002	0.00001	0.00142	0.00000	0.00000	0.00006	0.00175	0.00001	0.00012	0.00173	0.00002	0.00017	0.00167
635052	5860976	C351	3.76	0.00027	0.09655	0.00006	0.00045	0.00697	0.00013	0.00053	0.00000	0.11108	0.00000	0.00007	0.00002	0.00001	0.00141	0.00000	0.00000	0.00006	0.00174	0.00001	0.00012	0.00172	0.00002	0.00016	0.00166
634970	5860936	C352	3.89	0.00028	0.09990	0.00006	0.00047	0.00721	0.00013	0.00055	0.00000	0.11493	0.00000	0.00007	0.00002	0.00001	0.00146	0.00000	0.00000	0.00007	0.00181	0.00001	0.00013	0.00178	0.00002	0.00017	0.00171
635023	5861008	C353	3.76	0.00027	0.09647	0.00006	0.00045	0.00696	0.00013	0.00053	0.00000	0.11098	0.00000	0.00007	0.00002	0.00001	0.00141	0.00000	0.00000	0.00006	0.00174	0.00001	0.00012	0.00172	0.00002	0.00016	0.00165
634957	5861081	C354	3.73	0.00027	0.09562	0.00006	0.00045	0.00690	0.00013	0.00053	0.00000	0.11001	0.00000	0.00007	0.00002	0.00001	0.00140	0.00000	0.00000	0.00006	0.00173	0.00001	0.00012	0.00171	0.00002	0.00016	0.00164
634815	5861127	C355	3.70	0.00027	0.09493	0.00006	0.00044	0.00685	0.00013	0.00052	0.00000	0.10921	0.00000	0.00007	0.00002	0.00001	0.00139	0.00000	0.00000	0.00006	0.00172	0.00001	0.00012	0.00169	0.00002	0.00016	0.00163
635036	5861316	C356	3.59	0.00026	0.09208	0.00005	0.00043	0.00665	0.00012	0.00051	0.00000	0.10593	0.00000	0.00007	0.00002	0.00001	0.00134	0.00000	0.00000	0.00006	0.00166	0.00001	0.00012	0.00164	0.00002	0.00016	0.00158
635162	5861326	C357	3.62	0.00026	0.09292	0.00005	0.00043	0.00671	0.00012	0.00051	0.00000	0.10690	0.00000	0.00007	0.00002	0.00001	0.00136	0.00000	0.00000	0.00006	0.00168	0.00001	0.00012	0.00166	0.00002	0.00016	0.00159
634845	5861354	C358	3.54	0.00026	0.09080	0.00005	0.00042	0.00655	0.00012	0.00050	0.00000	0.10445	0.00000	0.00007	0.00002	0.00001	0.00133	0.00000	0.00000	0.00006	0.00164	0.00001	0.00011	0.00162	0.00002	0.00015	0.00156
634799	5861381	C359	3.51	0.00026	0.09014	0.00005	0.00042	0.00651	0.00012	0.00050	0.00000	0.10370	0.00000	0.00006	0.00002	0.00001	0.00132	0.00000	0.00000	0.00006	0.00163	0.00001	0.00011	0.00161	0.00002	0.00015	0.00155
634807	5861446	C360	3.49	0.00025	0.08947	0.00005	0.00042	0.00646	0.00012	0.00049	0.00000	0.10293	0.00000	0.00006	0.00002	0.00001	0.00131	0.00000	0.00000	0.00006	0.00162	0.00001	0.00011	0.00160	0.00002	0.00015	0.00153
634799	5861486	C361	3.47	0.00025	0.08908	0.00005	0.00042	0.00643	0.00012	0.00049	0.00000	0.10248	0.00000	0.00006	0.00002	0.00001	0.00130	0.00000	0.00000	0.00006	0.00161	0.00001	0.00011	0.00159	0.00002	0.00015	0.00153
634775	5861537	C362	3.43	0.00025	0.08808	0.00005	0.00041	0.00636	0.00012	0.00049	0.00000	0.10133	0.00000	0.00006	0.00002	0.00001	0.00129	0.00000	0.00000	0.00006	0.00159	0.00001	0.00011	0.00157	0.00002	0.00015	0.00151
634754	5861592	C363	3.40	0.00025	0.08733	0.00005	0.00041	0.00630	0.00012	0.00048	0.00000	0.10047	0.00000	0.00006	0.00002	0.00001	0.00127	0.00000	0.00000	0.00006	0.00158	0.00001	0.00011	0.00156	0.00002	0.00015	0.00150
634742	5861622	C364	3.38	0.00025	0.08678	0.00005	0.00041	0.00626	0.00011	0.00048	0.00000	0.09983	0.00000	0.00006	0.00002	0.00001	0.00127	0.00000	0.00000	0.00006	0.00157	0.00001	0.00011	0.00155	0.00002	0.00015	0.00149
634700	5861717	C365	3.32	0.00024	0.08511	0.00005	0.00040	0.00614	0.00011	0.00047	0.00000	0.09792	0.00000	0.00006	0.00002	0.00001	0.00124	0.00000	0.00000	0.00006	0.00154	0.00001	0.00011	0.00152	0.00002	0.00014	0.00146
634648	5861759	C366	3.28	0.00024	0.08423	0.00005	0.00039	0.00608	0.00011	0.00047	0.00000	0.09690	0.00000	0.00006	0.00002	0.00001	0.00123	0.00000	0.00000	0.00006	0.00152	0.00001	0.00011	0.00150	0.00002	0.00014	0.00144

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	0.01%	2.57%	0.002%	0.01%	0.19%	0.003%	0.01%	0.000003%	2.95%	0.00004%	0.002%	0.0005%	0.0003%	0.04%	0.0001%	0.00004%	0.002%	0.05%	0.0002%	0.003%	0.05%	0.001%	0.004%	0.04%
			Total Particulate Matter Concentration (ug/m^3)																								
634612	5861830	C367	3.23	0.00024	0.08293	0.00005	0.00039	0.00599	0.00011	0.00046	0.00000	0.09540	0.00000	0.00006	0.00001	0.00001	0.00121	0.00000	0.00000	0.00005	0.00150	0.00001	0.00010	0.00148	0.00002	0.00014	0.00142
634602	5861867	C368	3.21	0.00023	0.08231	0.00005	0.00038	0.00594	0.00011	0.00045	0.00000	0.09469	0.00000	0.00006	0.00001	0.00001	0.00120	0.00000	0.00000	0.00005	0.00149	0.00001	0.00010	0.00147	0.00002	0.00014	0.00141
634794	5861748	C369	3.33	0.00024	0.08550	0.00005	0.00040	0.00617	0.00011	0.00047	0.00000	0.09836	0.00000	0.00006	0.00002	0.00001	0.00125	0.00000	0.00000	0.00006	0.00155	0.00001	0.00011	0.00153	0.00002	0.00015	0.00147
634894	5861777	C370	3.30	0.00024	0.08463	0.00005	0.00040	0.00611	0.00011	0.00047	0.00000	0.09736	0.00000	0.00006	0.00002	0.00001	0.00124	0.00000	0.00000	0.00006	0.00153	0.00001	0.00011	0.00151	0.00002	0.00014	0.00145
634797	5861656	C371	3.39	0.00025	0.08688	0.00005	0.00041	0.00627	0.00012	0.00048	0.00000	0.09995	0.00000	0.00006	0.00002	0.00001	0.00127	0.00000	0.00000	0.00006	0.00157	0.00001	0.00011	0.00155	0.00002	0.00015	0.00149
634842	5861619	C372	3.43	0.00025	0.08804	0.00005	0.00041	0.00635	0.00012	0.00049	0.00000	0.10128	0.00000	0.00006	0.00002	0.00001	0.00128	0.00000	0.00000	0.00006	0.00159	0.00001	0.00011	0.00157	0.00002	0.00015	0.00151
634856	5861562	C373	3.46	0.00025	0.08890	0.00005	0.00042	0.00642	0.00012	0.00049	0.00000	0.10227	0.00000	0.00006	0.00002	0.00001	0.00130	0.00000	0.00000	0.00006	0.00161	0.00001	0.00011	0.00159	0.00002	0.00015	0.00152
634874	5861521	C374	3.48	0.00025	0.08928	0.00005	0.00042	0.00644	0.00012	0.00049	0.00000	0.10271	0.00000	0.00006	0.00002	0.00001	0.00130	0.00000	0.00000	0.00006	0.00161	0.00001	0.00011	0.00159	0.00002	0.00015	0.00153
634872	5861484	C375	3.50	0.00026	0.08982	0.00005	0.00042	0.00648	0.00012	0.00050	0.00000	0.10333	0.00000	0.00006	0.00002	0.00001	0.00131	0.00000	0.00000	0.00006	0.00162	0.00001	0.00011	0.00160	0.00002	0.00015	0.00154
634889	5861408	C376	3.51	0.00026	0.09005	0.00005	0.00042	0.00650	0.00012	0.00050	0.00000	0.10360	0.00000	0.00006	0.00002	0.00001	0.00131	0.00000	0.00000	0.00006	0.00163	0.00001	0.00011	0.00161	0.00002	0.00015	0.00154
634927	5861378	C377	3.54	0.00026	0.09073	0.00005	0.00042	0.00655	0.00012	0.00050	0.00000	0.10438	0.00000	0.00007	0.00002	0.00001	0.00132	0.00000	0.00000	0.00006	0.00164	0.00001	0.00011	0.00162	0.00002	0.00015	0.00156
634931	5861326	C378	3.56	0.00026	0.09137	0.00005	0.00043	0.00659	0.00012	0.00050	0.00000	0.10512	0.00000	0.00007	0.00002	0.00001	0.00133	0.00000	0.00000	0.00006	0.00165	0.00001	0.00012	0.00163	0.00002	0.00016	0.00157
635001	5861307	C379	3.58	0.00026	0.09194	0.00005	0.00043	0.00664	0.00012	0.00051	0.00000	0.10577	0.00000	0.00007	0.00002	0.00001	0.00134	0.00000	0.00000	0.00006	0.00166	0.00001	0.00012	0.00164	0.00002	0.00016	0.00158
635178	5861389	C380	3.60	0.00026	0.09242	0.00005	0.00043	0.00667	0.00012	0.00051	0.00000	0.10632	0.00000	0.00007	0.00002	0.00001	0.00135	0.00000	0.00000	0.00006	0.00167	0.00001	0.00012	0.00165	0.00002	0.00016	0.00158
635129	5861415	C381	3.56	0.00026	0.09131	0.00005	0.00043	0.00659	0.00012	0.00050	0.00000	0.10505	0.00000	0.00007	0.00002	0.00001	0.00133	0.00000	0.00000	0.00006	0.00165	0.00001	0.00012	0.00163	0.00002	0.00016	0.00157
635078	5861447	C382	3.51	0.00026	0.09011	0.00005	0.00042	0.00650	0.00012	0.00050	0.00000	0.10367	0.00000	0.00006	0.00002	0.00001	0.00132	0.00000	0.00000	0.00006	0.00163	0.00001	0.00011	0.00161	0.00002	0.00015	0.00155
635041	5861481	C383	3.47	0.00025	0.08913	0.00005	0.00042	0.00643	0.00012	0.00049	0.00000	0.10254	0.00000	0.00006	0.00002	0.00001	0.00130	0.00000	0.00000	0.00006	0.00161	0.00001	0.00011	0.00159	0.00002	0.00015	0.00153
635007	5861513	C384	3.46	0.00025	0.08891	0.00005	0.00042	0.00642	0.00012	0.00049	0.00000	0.10228	0.00000	0.00006	0.00002	0.00001	0.00130	0.00000	0.00000	0.00006	0.00161	0.00001	0.00011	0.00159	0.00002	0.00015	0.00152
634975	5861552	C385	3.43	0.00025	0.08794	0.00005	0.00041	0.00635	0.00012	0.00049	0.00000	0.10117	0.00000	0.00006	0.00002	0.00001	0.00128	0.00000	0.00000	0.00006	0.00159	0.00001	0.00011	0.00157	0.00002	0.00015	0.00151
634966	5861604	C386	3.41	0.00025	0.08760	0.00005	0.00041	0.00632	0.00012	0.00048	0.00000	0.10078	0.00000	0.00006	0.00002	0.00001	0.00128	0.00000	0.00000	0.00006	0.00158	0.00001	0.00011	0.00156	0.00002	0.00015	0.00150
634965	5861650	C387	3.38	0.00025	0.08683	0.00005	0.00041	0.00627	0.00012	0.00048	0.00000	0.09989	0.00000	0.00006	0.00002	0.00001	0.00127	0.00000	0.00000	0.00006	0.00157	0.00001	0.00011	0.00155	0.00002	0.00015	0.00149
634933	5861729	C388	3.34	0.00024	0.08563	0.00005	0.00040	0.00618	0.00011	0.00047	0.00000	0.09852	0.00000	0.00006	0.00002	0.00001	0.00125	0.00000	0.00000	0.00006	0.00155	0.00001	0.00011	0.00153	0.00002	0.00015	0.00147
634720	5861903	C389	3.19	0.00023	0.08194	0.00005	0.00038	0.00591	0.00011	0.00045	0.00000	0.09426	0.00000	0.00006	0.00001	0.00001	0.00120	0.00000	0.00000	0.00005	0.00148	0.00001	0.00010	0.00146	0.00002	0.00014	0.00141
634674	5861939	C390	3.18	0.00023	0.08152	0.00005	0.00038	0.00588	0.00011	0.00045	0.00000	0.09378	0.00000	0.00006	0.00001	0.00001	0.00119	0.00000	0.00000	0.00005	0.00147	0.00001	0.00010	0.00145	0.00002	0.00014	0.00140
634633	5861947	C391	3.17	0.00023	0.08132	0.00005	0.00038	0.00587	0.00011	0.00045	0.00000	0.09356	0.00000	0.00006	0.00001	0.00001	0.00119	0.00000	0.00000	0.00005	0.00147	0.00001	0.00010	0.00145	0.00002	0.00014	0.00139
631918	5864061	C392	2.61	0.00019	0.06693	0.00004	0.00031	0.00483	0.00009	0.00037	0.00000	0.07700	0.00000	0.00005	0.00001	0.00001	0.00098	0.00000	0.00000	0.00004	0.00121	0.00000	0.00008	0.00119	0.00002	0.00011	0.00115
631635	5864245	C393	2.47	0.00018	0.06330	0.00004	0.00030	0.00457	0.00008	0.00035	0.00000	0.07282	0.00000	0.00005	0.00001	0.00001	0.00092	0.00000	0.00000	0.00004	0.00114	0.00000	0.00008	0.00113	0.00001	0.00011	0.00109
631596	5864310	C394	2.44	0.00018	0.06265	0.00004	0.00029	0.00452	0.00008	0.00035	0.00000	0.07208	0.00000	0.00005	0.00001	0.00001	0.00091	0.00000	0.00000	0.00004	0.00113	0.00000	0.00008	0.00112	0.00001	0.00011	0.00107
631426	5864364	C395	2.38	0.00017	0.06103	0.00004	0.00029	0.00440	0.00008	0.00034	0.00000	0.07021	0.00000	0.00004	0.00001	0.00001	0.00089	0.00000	0.00000	0.00004	0.00110	0.00000	0.00008	0.00109	0.00001	0.00010	0.00105
631376	5864401	C396	2.35	0.00017	0.06033	0.00004	0.00028	0.00435	0.00008	0.00033	0.00000	0.06941	0.00000	0.00004	0.00001	0.00001	0.00088	0.00000	0.00000	0.00004	0.00109	0.00000	0.00008	0.00108	0.00001	0.00010	0.00103
631353	5864438	C397	2.33	0.00017	0.05975	0.00003	0.00028	0.00431	0.00008	0.00033	0.00000	0.06874	0.00000	0.00004	0.00001	0.00001	0.00087	0.00000	0.00000	0.00004	0.00108	0.00000	0.00008	0.00107	0.00001	0.00010	0.00102
631356	5864521	C398	2.28	0.00017	0.05862	0.00003	0.00027	0.00423	0.00008	0.00032	0.00000	0.06744	0.00000	0.00004	0.00001	0.00001	0.00086	0.00000	0.00000	0.00004	0.00106	0.00000	0.00007	0.00105	0.00001	0.00010	0.00101
631202	5864478	C399	2.28	0.00017	0.05843	0.00003	0.00027	0.00422	0.00008	0.00032	0.00000	0.06722	0.00000	0.00004	0.00001	0.00001	0.00085	0.00000	0.00000	0.00004	0.00106	0.00000	0.00007	0.00104	0.00001	0.00010	0.00100
631123	5864530	C400	2.22	0.00016	0.05697	0.00003	0.00027	0.00411	0.00008	0.00031	0.00000	0.06554	0.00000	0.00004	0.00001	0.00001	0.00083	0.00000	0.00000	0.00004	0.00103	0.00000	0.00007	0.00102	0.00001	0.00010	0.00098
631228	5864629	C401	2.21	0.00016	0.05659	0.00003	0.00026	0.00408	0.00007	0.00031	0.00000	0.06510	0.00000	0.00004	0.00001	0.00001	0.00083	0.00000	0.00000	0.00004	0.00102	0.00000	0.00007	0.00101	0.00001	0.00010	0.00097
630947	5864638	C402	2.12	0.00015	0.05440	0.00003	0.00025	0.00393	0.00007	0.00030	0.00000	0.06259	0.00000	0.00004	0.00001	0.00001	0.00079	0.00000	0.00000	0.00004	0.00098	0.00000	0.00007	0.00097	0.00001	0.00009	0.00093
630884	5864669	C403	2.08	0.00015	0.05332	0.00003	0.00025	0.00385	0.00007	0.00029	0.00000	0.06134	0.00000	0.00004	0.00001	0.00001	0.00078	0.00000	0.00000	0.00004	0.00096	0.00000	0.00007	0.00095	0.00001	0.00009	0.00091
630852	5864739	C404	2.04	0.00015	0.05238	0.00003	0.00024	0.00378	0.00007	0.00029	0.00000	0.06026	0.00000	0.00004	0.00001	0.00001	0.00076	0.00000	0.00000	0.00003	0.00095	0.00000	0.00007	0.00093	0.00001	0.00009	0.00090
630795	5864783	C405	2.00	0.00015	0.05138	0.00003	0.00024	0.00371	0.00007	0.00028	0.00000	0.05911	0.00000	0.00004	0.00001	0.00001	0.00075	0.00000	0.00000	0.00003	0.00093	0.00000	0.00006	0.00092	0.00001	0.00009	0.00088
630714	5864851	C406	1.94	0.00014	0.04988	0.00003	0.00023	0.00360	0.00007	0.00028	0.00000	0.05738	0.00000	0.00004	0.00001	0.00001	0.00073	0.00000	0.00000	0.00003	0.00090	0.00000	0.00006	0.00089	0.00001	0.00008	0.00086
630606	5864913	C407	1.87	0.00014	0.04793	0.00003	0.00022	0.00346	0.00006	0.00026	0.00000	0.05515	0.00000	0.00003	0.00001	0.00001	0.00070	0.00000	0.00000	0.00003	0.00087	0.00000	0.00006	0.00086	0.00001	0.00008	0.00082
630537	5864985	C408	1.82	0.00013	0.04676	0.00003	0.00022	0.00337	0.00006	0.00026	0.00000	0.05379	0.00000	0.00003	0.00001	0.00001	0.00068	0.00000	0.00000	0.00003	0.00085	0.00000	0.00006	0.00083	0.00001	0.00008	0.00080
630525	5865056	C409	1.80	0.00013	0.04623	0.00003	0.00022	0.00334	0.00006	0.00026	0.00000	0.05318	0.00000	0.00003	0.00001	0.00001	0.00067	0.00000	0.00000	0.00003	0.00084	0.00000	0.00006	0.00082	0.00001	0.00008	0.00079
630640	5865177	C410	1.80	0.00013	0.04625	0.00003	0.00022	0.00334	0.00006	0.00026	0.00000	0.05321	0.00000	0.00003	0.00001	0.00001	0.00068	0.00000	0.00000	0.00003	0.00084	0.00000	0.00006	0.00083	0.00001	0.00008	0.00079
630567	5865763	C411	1.62	0.00012	0.04161	0.00002	0.00019	0.00300	0.00006	0.00023	0.00000	0.04787	0.00000	0.00003	0.00001	0.00000	0.00061	0.00000	0.00000	0.00003	0.00075	0.00000	0.00005	0.00074	0.00001	0.00007	0.00071
631282	5865426	C412	1.83	0.00013	0.04691	0.00003	0.00022	0.00339	0.00006	0.00026	0.00000	0.05397	0.00000	0.00003	0.00001	0.00001	0.00068	0.00000	0.00000	0.00003	0.00085	0.00000	0.00006	0.00084	0.00001	0.00008	0.00080
632004	5865578	C413	1.72	0.00013	0.04409	0.00003	0.00021	0.00318	0.00006	0.00024	0.00000	0.05073	0.00000	0.00003	0.00001	0.00000	0.00064	0.00000	0.00000	0.00003	0.00080	0.00000	0.00006	0.00079	0.00001	0.00008	0.00076
632080	5865528	C414	1.73	0.00013	0.04434	0.00003	0.00021	0.00320	0.00006	0.00024	0.00000	0.05101	0.00000	0.00003	0.00001	0.00001	0.00065	0.00000	0.00000	0.00003	0.00080	0.00000	0.00006	0.00079	0.00001	0.00008	0.00076
632587	5865628	C415	1.57	0.00011	0.04022	0.00002	0.00019	0.00290	0.00005	0.00022	0.00000	0.04627	0.00000	0.00003	0.00001	0.00000	0.00059	0.00000	0.00000	0.00003	0.00073	0.00000	0.00005	0.00072	0.00001	0.00007	0.00069
632732	5866318	C416	1.27	0.00009	0.03251	0.00002	0.00015	0.00235	0.00004	0.00018	0.00000	0.03740	0.00000	0.00002	0.00001	0.00000	0.00047	0.00000	0.00000	0.00002	0.00059	0.00000	0.00004	0.00058	0.00001	0.00006	0.00056
632922	5866042	C417	1.33	0.00010	0.03405	0.00002	0.00016	0.00246	0.00005	0.00019	0.00000	0.03917	0.00000	0.00002	0.00001	0.00000	0.00050	0.00000	0.00000	0.00002	0.00062	0.00000	0.00004	0.00061	0.00001	0.00006	0.00058
632958	5866077	C418	1.31	0.00010	0.03355	0.00002	0.00016	0.00242	0.00004	0.00019	0.00000	0.03860	0.00000	0.00002	0.00001	0.00000	0.00049	0.00000	0.00000	0.00002	0.00061	0.00000	0.00004	0.00060	0.00001	0.00006	0.00058
633002	5866062	C419	1.30	0.00010	0.03348	0.00002	0.00016	0.00242	0.00004	0.00018	0.00000	0.03852	0.00000	0.00002	0.00001	0.00000	0.00049	0.00000	0.00000	0.00002	0.00061	0.00000	0.00004	0.00060	0.00001	0.00006	0.00057
633121	5866206	C420	1.24	0.00009	0.03174	0.00002	0.00015	0.00229	0.00004	0.00018	0.00000	0.03652	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00057	0.00000	0.00004	0.00057	0.00001	0.00005	0.00054
633171	5866177	C421	1.24	0.00009	0.03179	0.00002	0.00015	0.00229	0.00004	0.00018	0.00000	0.03657	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00057	0.00000	0.00004	0.00057	0.00001	0.00005	0.00055
633224	5866191	C422	1.23	0.00009	0.03148	0.00002	0.00015	0.00227	0.00004	0.00017	0.00000	0.03622	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00057	0.00000	0.00004	0.00056	0.00001	0.00005	0.00054

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	0.01%	2.57%	0.002%	0.01%	0.19%	0.003%	0.01%	0.000003%	2.95%	0.00004%	0.002%	0.0005%	0.0003%	0.04%	0.0001%	0.00004%	0.002%	0.05%	0.0002%	0.003%	0.05%	0.001%	0.004%	0.04%
			Total Particulate Matter Concentration (ug/m^3)																								
633281	5866125	C423	1.24	0.00009	0.03183	0.00002	0.00015	0.00230	0.00004	0.00018	0.00000	0.03662	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00058	0.00000	0.00004	0.00057	0.00001	0.00005	0.00055
633337	5866101	C424	1.24	0.00009	0.03185	0.00002	0.00015	0.00230	0.00004	0.00018	0.00000	0.03664	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00058	0.00000	0.00004	0.00057	0.00001	0.00005	0.00055
633366	5866083	C425	1.24	0.00009	0.03190	0.00002	0.00015	0.00230	0.00004	0.00018	0.00000	0.03670	0.00000	0.00002	0.00001	0.00000	0.00047	0.00000	0.00000	0.00002	0.00058	0.00000	0.00004	0.00057	0.00001	0.00005	0.00055
633424	5866069	C426	1.24	0.00009	0.03184	0.00002	0.00015	0.00230	0.00004	0.00018	0.00000	0.03663	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00058	0.00000	0.00004	0.00057	0.00001	0.00005	0.00055
633441	5866043	C427	1.25	0.00009	0.03201	0.00002	0.00015	0.00231	0.00004	0.00018	0.00000	0.03682	0.00000	0.00002	0.00001	0.00000	0.00047	0.00000	0.00000	0.00002	0.00058	0.00000	0.00004	0.00057	0.00001	0.00005	0.00055
633416	5866144	C428	1.22	0.00009	0.03128	0.00002	0.00015	0.00226	0.00004	0.00017	0.00000	0.03598	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00057	0.00000	0.00004	0.00056	0.00001	0.00005	0.00054
633382	5866155	C429	1.22	0.00009	0.03128	0.00002	0.00015	0.00226	0.00004	0.00017	0.00000	0.03598	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00057	0.00000	0.00004	0.00056	0.00001	0.00005	0.00054
633337	5866176	C430	1.22	0.00009	0.03124	0.00002	0.00015	0.00225	0.00004	0.00017	0.00000	0.03594	0.00000	0.00002	0.00001	0.00000	0.00046	0.00000	0.00000	0.00002	0.00056	0.00000	0.00004	0.00056	0.00001	0.00005	0.00054
633263	5866223	C431	1.21	0.00009	0.03111	0.00002	0.00015	0.00225	0.00004	0.00017	0.00000	0.03579	0.00000	0.00002	0.00001	0.00000	0.00045	0.00000	0.00000	0.00002	0.00056	0.00000	0.00004	0.00056	0.00001	0.00005	0.00053
633042	5864004	C432	2.32	0.00017	0.05944	0.00003	0.00028	0.00429	0.00008	0.00033	0.00000	0.06838	0.00000	0.00004	0.00001	0.00001	0.00087	0.00000	0.00000	0.00004	0.00107	0.00000	0.00008	0.00106	0.00001	0.00010	0.00102
635709	5867706	C433	1.06	0.00008	0.02709	0.00002	0.00013	0.00196	0.00004	0.00015	0.00000	0.03117	0.00000	0.00002	0.00000	0.00000	0.00040	0.00000	0.00000	0.00002	0.00049	0.00000	0.00003	0.00048	0.00001	0.00005	0.00046
625388	5863092	C434	0.81	0.00006	0.02080	0.00001	0.00010	0.00150	0.00003	0.00011	0.00000	0.02393	0.00000	0.00001	0.00000	0.00000	0.00030	0.00000	0.00000	0.00001	0.00038	0.00000	0.00003	0.00037	0.00000	0.00004	0.00036
625920	5861156	C435	1.10	0.00008	0.02813	0.00002	0.00013	0.00203	0.00004	0.00016	0.00000	0.03236	0.00000	0.00002	0.00001	0.00000	0.00041	0.00000	0.00000	0.00002	0.00051	0.00000	0.00004	0.00050	0.00001	0.00005	0.00048
625442	5861111	C436	1.01	0.00007	0.02603	0.00002	0.00012	0.00188	0.00003	0.00014	0.00000	0.02994	0.00000	0.00002	0.00000	0.00000	0.00038	0.00000	0.00000	0.00002	0.00047	0.00000	0.00003	0.00046	0.00001	0.00004	0.00045
625549	5860833	C437	1.07	0.00008	0.02751	0.00002	0.00013	0.00199	0.00004	0.00015	0.00000	0.03165	0.00000	0.00002	0.00000	0.00000	0.00040	0.00000	0.00000	0.00002	0.00050	0.00000	0.00003	0.00049	0.00001	0.00005	0.00047
625534	5860895	C438	1.06	0.00008	0.02715	0.00002	0.00013	0.00196	0.00004	0.00015	0.00000	0.03123	0.00000	0.00002	0.00000	0.00000	0.00040	0.00000	0.00000	0.00002	0.00049	0.00000	0.00003	0.00048	0.00001	0.00005	0.00047
625503	5860935	C439	1.05	0.00008	0.02689	0.00002	0.00013	0.00194	0.00004	0.00015	0.00000	0.03093	0.00000	0.00002	0.00000	0.00000	0.00039	0.00000	0.00000	0.00002	0.00049	0.00000	0.00003	0.00048	0.00001	0.00005	0.00046
625491	5860984	C440	1.04	0.00008	0.02658	0.00002	0.00012	0.00192	0.00004	0.00015	0.00000	0.03058	0.00000	0.00002	0.00000	0.00000	0.00039	0.00000	0.00000	0.00002	0.00048	0.00000	0.00003	0.00047	0.00001	0.00005	0.00046
625463	5861044	C441	1.02	0.00007	0.02624	0.00002	0.00012	0.00189	0.00003	0.00014	0.00000	0.03019	0.00000	0.00002	0.00000	0.00000	0.00038	0.00000	0.00000	0.00002	0.00047	0.00000	0.00003	0.00047	0.00001	0.00004	0.00045
627494	5859339	C442	1.87	0.00014	0.04795	0.00003	0.00022	0.00346	0.00006	0.00026	0.00000	0.05516	0.00000	0.00003	0.00001	0.00001	0.00070	0.00000	0.00000	0.00003	0.00087	0.00000	0.00006	0.00086	0.00001	0.00008	0.00082
627568	5859552	C443	1.87	0.00014	0.04799	0.00003	0.00022	0.00346	0.00006	0.00027	0.00000	0.05521	0.00000	0.00003	0.00001	0.00001	0.00070	0.00000	0.00000	0.00003	0.00087	0.00000	0.00006	0.00086	0.00001	0.00008	0.00082
627722	5859592	C444	2.00	0.00015	0.05126	0.00003	0.00024	0.00370	0.00007	0.00028	0.00000	0.05897	0.00000	0.00004	0.00001	0.00001	0.00075	0.00000	0.00000	0.00003	0.00093	0.00000	0.00006	0.00091	0.00001	0.00009	0.00088
627868	5860070	C445	2.04	0.00015	0.05238	0.00003	0.00024	0.00378	0.00007	0.00029	0.00000	0.06026	0.00000	0.00004	0.00001	0.00001	0.00076	0.00000	0.00000	0.00003	0.00095	0.00000	0.00007	0.00093	0.00001	0.00009	0.00090
627927	5860110	C446	2.08	0.00015	0.05337	0.00003	0.00025	0.00385	0.00007	0.00029	0.00000	0.06140	0.00000	0.00004	0.00001	0.00001	0.00078	0.00000	0.00000	0.00004	0.00096	0.00000	0.00007	0.00095	0.00001	0.00009	0.00092
627972	5860154	C447	2.10	0.00015	0.05400	0.00003	0.00025	0.00390	0.00007	0.00030	0.00000	0.06212	0.00000	0.00004	0.00001	0.00001	0.00079	0.00000	0.00000	0.00004	0.00098	0.00000	0.00007	0.00096	0.00001	0.00009	0.00093
628037	5860189	C448	2.15	0.00016	0.05511	0.00003	0.00026	0.00398	0.00007	0.00030	0.00000	0.06340	0.00000	0.00004	0.00001	0.00001	0.00080	0.00000	0.00000	0.00004	0.00100	0.00000	0.00007	0.00098	0.00001	0.00009	0.00094
624767	5861052	C449	0.99	0.00007	0.02534	0.00001	0.00012	0.00183	0.00003	0.00014	0.00000	0.02916	0.00000	0.00002	0.00000	0.00000	0.00037	0.00000	0.00000	0.00002	0.00046	0.00000	0.00003	0.00045	0.00001	0.00004	0.00043
636109	5858269	C450	8.58	0.00063	0.22018	0.00013	0.00103	0.01589	0.00029	0.00122	0.00000	0.25330	0.00000	0.00016	0.00004	0.00002	0.00321	0.00001	0.00000	0.00015	0.00398	0.00001	0.00028	0.00393	0.00005	0.00037	0.00378
636117	5858111	C451	9.08	0.00066	0.23295	0.00014	0.00109	0.01681	0.00031	0.00129	0.00000	0.26799	0.00000	0.00017	0.00004	0.00003	0.00340	0.00001	0.00000	0.00015	0.00421	0.00002	0.00029	0.00416	0.00005	0.00040	0.00399
636305	5857911	C452	10.22	0.00075	0.26231	0.00015	0.00123	0.01893	0.00035	0.00145	0.00000	0.30177	0.00000	0.00019	0.00005	0.00003	0.00383	0.00001	0.00000	0.00017	0.00474	0.00002	0.00033	0.00468	0.00006	0.00045	0.00450
623261	5854417	C453	0.91	0.00007	0.02335	0.00001	0.00011	0.00169	0.00003	0.00013	0.00000	0.02686	0.00000	0.00002	0.00000	0.00000	0.00034	0.00000	0.00000	0.00002	0.00042	0.00000	0.00003	0.00042	0.00001	0.00004	0.00040
622652	5855438	C454	0.77	0.00006	0.01982	0.00001	0.00009	0.00143	0.00003	0.00011	0.00000	0.02280	0.00000	0.00001	0.00000	0.00000	0.00029	0.00000	0.00000	0.00001	0.00036	0.00000	0.00003	0.00035	0.00000	0.00003	0.00034
622708	5855457	C455	0.78	0.00006	0.01996	0.00001	0.00009	0.00144	0.00003	0.00011	0.00000	0.02296	0.00000	0.00001	0.00000	0.00000	0.00029	0.00000	0.00000	0.00001	0.00036	0.00000	0.00003	0.00036	0.00000	0.00003	0.00034
624826	5857667	C456	1.25	0.00009	0.03218	0.00002	0.00015	0.00232	0.00004	0.00018	0.00000	0.03703	0.00000	0.00002	0.00001	0.00000	0.00047	0.00000	0.00000	0.00002	0.00058	0.00000	0.00004	0.00057	0.00001	0.00005	0.00055
634870	5861276	C457	3.58	0.00026	0.09191	0.00005	0.00043	0.00663	0.00012	0.00051	0.00000	0.10573	0.00000	0.00007	0.00002	0.00001	0.00134	0.00000	0.00000	0.00006	0.00166	0.00001	0.00012	0.00164	0.00002	0.00016	0.00158
638207	5859662	C458	6.81	0.00050	0.17462	0.00010	0.00082	0.01260	0.00023	0.00096	0.00000	0.20089	0.00000	0.00013	0.00003	0.00002	0.00255	0.00001	0.00000	0.00012	0.00316	0.00001	0.00022	0.00312	0.00004	0.00030	0.00299
640974	5858285	C459	7.78	0.00057	0.19955	0.00012	0.00093	0.01440	0.00026	0.00110	0.00000	0.22957	0.00000	0.00014	0.00004	0.00002	0.00291	0.00001	0.00000	0.00013	0.00361	0.00001	0.00025	0.00356	0.00005	0.00034	0.00342
641865	5856903	C460	8.59	0.00063	0.22040	0.00013	0.00103	0.01591	0.00029	0.00122	0.00000	0.25355	0.00000	0.00016	0.00004	0.00002	0.00322	0.00001	0.00000	0.00015	0.00398	0.00001	0.00028	0.00393	0.00005	0.00037	0.00378
635118	5851125	C461	9.29	0.00068	0.23836	0.00014	0.00111	0.01720	0.00032	0.00132	0.00000	0.27422	0.00000	0.00017	0.00004	0.00003	0.00348	0.00001	0.00000	0.00016	0.00431	0.00002	0.00030	0.00425	0.00006	0.00041	0.00409
646196	5852986	C462	2.89	0.00021	0.07423	0.00004	0.00035	0.00536	0.00010	0.00041	0.00000	0.08539	0.00000	0.00005	0.00001	0.00001	0.00108	0.00000	0.00000	0.00005	0.00134	0.00000	0.00009	0.00132	0.00002	0.00013	0.00127
625475	5857021	C463	1.52	0.00011	0.03895	0.00002	0.00018	0.00281	0.00005	0.00022	0.00000	0.04481	0.00000	0.00003	0.00001	0.00000	0.00057	0.00000	0.00000	0.00003	0.00070	0.00000	0.00005	0.00070	0.00001	0.00007	0.00067
626098	5856799	C464	1.94	0.00014	0.04977	0.00003	0.00023	0.00359	0.00007	0.00027	0.00000	0.05726	0.00000	0.00004	0.00001	0.00001	0.00073	0.00000	0.00000	0.00003	0.00090	0.00000	0.00006	0.00089	0.00001	0.00008	0.00085
627564	5858039	C465	2.88	0.00021	0.07382	0.00004	0.00035	0.00533	0.00010	0.00041	0.00000	0.08493	0.00000	0.00005	0.00001	0.00001	0.00108	0.00000	0.00000	0.00005	0.00133	0.00000	0.00009	0.00132	0.00002	0.00013	0.00127
629357	5857727	C466	6.03	0.00044	0.15461	0.00009	0.00072	0.01116	0.00020	0.00085	0.00000	0.17787	0.00000	0.00011	0.00003	0.00002	0.00226	0.00001	0.00000	0.00010	0.00279	0.00001	0.00020	0.00276	0.00004	0.00026	0.00265
630419	5858921	C467	8.82	0.00064	0.22639	0.00013	0.00106	0.01634	0.00030	0.00125	0.00000	0.26045	0.00000	0.00016	0.00004	0.00003	0.00330	0.00001	0.00000	0.00015	0.00409	0.00001	0.00029	0.00404	0.00005	0.00039	0.00388
626642	5855576	C468	2.98	0.00022	0.07648	0.00004	0.00036	0.00552	0.00010	0.00042	0.00000	0.08799	0.00000	0.00006	0.00001	0.00001	0.00112	0.00000	0.00000	0.00005	0.00138	0.00001	0.00010	0.00136	0.00002	0.00013	0.00131
630232	5858750	C469	8.57	0.00063	0.21987	0.00013	0.00103	0.01587	0.00029	0.00121	0.00000	0.25295	0.00000	0.00016	0.00004	0.00002	0.00321	0.00001	0.00000	0.00015	0.00397	0.00001	0.00028	0.00392	0.00005	0.00037	0.00377
623764	5852692	C470	1.02	0.00007	0.02609	0.00002	0.00012	0.00188	0.00003	0.00014	0.00000	0.03002	0.00000	0.00002	0.00000	0.00000	0.00038	0.00000	0.00000	0.00002	0.00047	0.00000	0.00003	0.00047	0.00001	0.00004	0.00045
623459	5850433	C471	0.79	0.00006	0.02029	0.00001	0.00009	0.00146	0.00003	0.00011	0.00000	0.02334	0.00000	0.00001	0.00000	0.00000	0.00030	0.00000	0.00000	0.00001	0.00037	0.00000	0.00003	0.00036	0.00000	0.00003	0.00035
623460	5850000	C472	0.79	0.00006	0.02037	0.00001	0.00010	0.00147	0.00003	0.00011	0.00000	0.02344	0.00000	0.00001	0.00000	0.00000	0.00030	0.00000	0.00000	0.00001	0.00037	0.00000	0.00003	0.00036	0.00000	0.00003	0.00035
624604	5850547	C473	1.07	0.00008	0.02751	0.00002	0.00013	0.00199	0.00004	0.00015	0.00000	0.03165	0.00000	0.00002	0.00000	0.00000	0.00040	0.00000	0.00000	0.00002	0.00050	0.00000	0.00003	0.00049	0.00001	0.00005	0.00047
624617	5847632	C474	1.27	0.00009	0.03265	0.00002	0.00015	0.00236	0.00004	0.00018	0.00000	0.03756	0.00000	0.00002	0.00001	0.00000	0.00048	0.00000	0.00000	0.00002	0.00059	0.00000	0.00004	0.00058	0.00001	0.00006	0.00056
624830	5847971	C475	1.34	0.00010	0.03430	0.00002	0.00016	0.00248	0.00005	0.00019	0.00000	0.03946	0.00000	0.00002	0.00001	0.00000	0.00050	0.00000	0.00000	0.00002	0.00062	0.00000	0.00004	0.00061	0.00001	0.00006	0.00059
625323	5848229	C476	1.54	0.00011	0.03957	0.00002	0.00019	0.00286	0.00005	0.00022	0.00000	0.04553	0.00000	0.00003	0.00001	0.00000	0.00058	0.00000	0.00000	0.00003	0.00072	0.00000	0.00005	0.00071	0.00001	0.00007	0.00068
625741	5848075	C477	1.75	0.00013	0.04478	0.00003	0.00021	0.00323	0.00006	0.00025	0.00000	0.05151	0.00000	0.00003	0.00001	0.00001	0.00065	0.00000	0.00000	0.00003	0.00081	0.00000	0.00006	0.00080	0.00001	0.00008	0.00077
625759	5847941	C478	1.75	0.00013	0.04485	0.00003	0.00021	0.00324	0.00006	0.00025	0.00000	0.05160	0.00000	0.00003	0.00001	0.00001	0.00065	0.00000	0.00000	0.00003	0.00081	0.00000	0.00006	0.00080	0.00001	0.00008	0.00077

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
			Screening Criteria	2.1	--	--	0.014	--	0.15	--	--	--	0.31	--	20	2	--	5	0.1	--	5	0.1	0.042	0.1	1	1	2
			95th Percentile of Metal Concentration (%)	0.01%	2.57%	0.002%	0.01%	0.19%	0.003%	0.01%	0.000003%	2.95%	0.00004%	0.002%	0.0005%	0.0003%	0.04%	0.0001%	0.00004%	0.002%	0.05%	0.0002%	0.003%	0.05%	0.001%	0.004%	0.04%
			Total Particulate Matter Concentration (ug/m^3)																								
625815	5847804	C479	1.76	0.00013	0.04527	0.00003	0.00021	0.00327	0.00006	0.00025	0.00000	0.05208	0.00000	0.00003	0.00001	0.00001	0.00066	0.00000	0.00000	0.00003	0.00082	0.00000	0.00006	0.00081	0.00001	0.00008	0.00078
626223	5849126	C480	2.03	0.00015	0.05215	0.00003	0.00024	0.00376	0.00007	0.00029	0.00000	0.05999	0.00000	0.00004	0.00001	0.00001	0.00076	0.00000	0.00000	0.00003	0.00094	0.00000	0.00007	0.00093	0.00001	0.00009	0.00089
625431	5849151	C481	1.53	0.00011	0.03936	0.00002	0.00018	0.00284	0.00005	0.00022	0.00000	0.04528	0.00000	0.00003	0.00001	0.00000	0.00057	0.00000	0.00000	0.00003	0.00071	0.00000	0.00005	0.00070	0.00001	0.00007	0.00067
626474	5847197	C482	1.88	0.00014	0.04818	0.00003	0.00023	0.00348	0.00006	0.00027	0.00000	0.05543	0.00000	0.00003	0.00001	0.00001	0.00070	0.00000	0.00000	0.00003	0.00087	0.00000	0.00006	0.00086	0.00001	0.00008	0.00083
626396	5845965	C483	1.54	0.00011	0.03954	0.00002	0.00018	0.00285	0.00005	0.00022	0.00000	0.04548	0.00000	0.00003	0.00001	0.00000	0.00058	0.00000	0.00000	0.00003	0.00071	0.00000	0.00005	0.00071	0.00001	0.00007	0.00068
626683	5845314	C484	1.38	0.00010	0.03531	0.00002	0.00017	0.00255	0.00005	0.00019	0.00000	0.04062	0.00000	0.00003	0.00001	0.00000	0.00052	0.00000	0.00000	0.00002	0.00064	0.00000	0.00004	0.00063	0.00001	0.00006	0.00061
626999	5845577	C485	1.43	0.00010	0.03675	0.00002	0.00017	0.00265	0.00005	0.00020	0.00000	0.04228	0.00000	0.00003	0.00001	0.00000	0.00054	0.00000	0.00000	0.00002	0.00066	0.00000	0.00005	0.00066	0.00001	0.00006	0.00063
627003	5846179	C486	1.60	0.00012	0.04093	0.00002	0.00019	0.00295	0.00005	0.00023	0.00000	0.04709	0.00000	0.00003	0.00001	0.00000	0.00060	0.00000	0.00000	0.00003	0.00074	0.00000	0.00005	0.00073	0.00001	0.00007	0.00070
626961	5846463	C487	1.68	0.00012	0.04310	0.00003	0.00020	0.00311	0.00006	0.00024	0.00000	0.04958	0.00000	0.00003	0.00001	0.00000	0.00063	0.00000	0.00000	0.00003	0.00078	0.00000	0.00005	0.00077	0.00001	0.00007	0.00074
627273	5846354	C488	1.63	0.00012	0.04191	0.00002	0.00020	0.00302	0.00006	0.00023	0.00000	0.04821	0.00000	0.00003	0.00001	0.00000	0.00061	0.00000	0.00000	0.00003	0.00076	0.00000	0.00005	0.00075	0.00001	0.00007	0.00072
627718	5845172	C489	1.31	0.00010	0.03367	0.00002	0.00016	0.00243	0.00004	0.00019	0.00000	0.03874	0.00000	0.00002	0.00001	0.00000	0.00049	0.00000	0.00000	0.00002	0.00061	0.00000	0.00004	0.00060	0.00001	0.00006	0.00058
628038	5844373	C490	1.19	0.00009	0.03050	0.00002	0.00014	0.00220	0.00004	0.00017	0.00000	0.03509	0.00000	0.00002	0.00001	0.00000	0.00045	0.00000	0.00000	0.00002	0.00055	0.00000	0.00004	0.00054	0.00001	0.00005	0.00052
628284	5848046	C491	2.21	0.00016	0.05668	0.00003	0.00027	0.00409	0.00008	0.00031	0.00000	0.06521	0.00000	0.00004	0.00001	0.00001	0.00083	0.00000	0.00000	0.00004	0.00102	0.00000	0.00007	0.00101	0.00001	0.00010	0.00097
628253	5848298	C492	2.37	0.00017	0.06074	0.00004	0.00028	0.00438	0.00008	0.00034	0.00000	0.06988	0.00000	0.00004	0.00001	0.00001	0.00089	0.00000	0.00000	0.00004	0.00110	0.00000	0.00008	0.00108	0.00001	0.00010	0.00104
628223	5848529	C493	2.48	0.00018	0.06360	0.00004	0.00030	0.00459	0.00008	0.00035	0.00000	0.07316	0.00000	0.00005	0.00001	0.00001	0.00093	0.00000	0.00000	0.00004	0.00115	0.00000	0.00008	0.00113	0.00001	0.00011	0.00109
628578	5846400	C494	1.69	0.00012	0.04348	0.00003	0.00020	0.00314	0.00006	0.00024	0.00000	0.05002	0.00000	0.00003	0.00001	0.00000	0.00063	0.00000	0.00000	0.00003	0.00079	0.00000	0.00005	0.00078	0.00001	0.00007	0.00075
629041	5844898	C495	1.44	0.00010	0.03687	0.00002	0.00017	0.00266	0.00005	0.00020	0.00000	0.04242	0.00000	0.00003	0.00001	0.00000	0.00054	0.00000	0.00000	0.00002	0.00067	0.00000	0.00005	0.00066	0.00001	0.00006	0.00063
629002	5847706	C496	2.06	0.00015	0.05287	0.00003	0.00025	0.00382	0.00007	0.00029	0.00000	0.06082	0.00000	0.00004	0.00001	0.00001	0.00077	0.00000	0.00000	0.00004	0.00096	0.00000	0.00007	0.00094	0.00001	0.00009	0.00091
628885	5847934	C497	2.14	0.00016	0.05490	0.00003	0.00026	0.00396	0.00007	0.00030	0.00000	0.06316	0.00000	0.00004	0.00001	0.00001	0.00080	0.00000	0.00000	0.00004	0.00099	0.00000	0.00007	0.00098	0.00001	0.00009	0.00094
629224	5848000	C498	2.25	0.00016	0.05782	0.00003	0.00027	0.00417	0.00008	0.00032	0.00000	0.06651	0.00000	0.00004	0.00001	0.00001	0.00084	0.00000	0.00000	0.00004	0.00104	0.00000	0.00007	0.00103	0.00001	0.00010	0.00099
629015	5847203	C499	1.97	0.00014	0.05055	0.00003	0.00024	0.00365	0.00007	0.00028	0.00000	0.05815	0.00000	0.00004	0.00001	0.00001	0.00074	0.00000	0.00000	0.00003	0.00091	0.00000	0.00006	0.00090	0.00001	0.00009	0.00087
629458	5847746	C500	2.25	0.00016	0.05775	0.00003	0.00027	0.00417	0.00008	0.00032	0.00000	0.06643	0.00000	0.00004	0.00001	0.00001	0.00084	0.00000	0.00000	0.00004	0.00104	0.00000	0.00007	0.00103	0.00001	0.00010	0.00099
629868	5847537	C501	2.35	0.00017	0.06031	0.00004	0.00028	0.00435	0.00008	0.00033	0.00000	0.06938	0.00000	0.00004	0.00001	0.00001	0.00088	0.00000	0.00000	0.00004	0.00109	0.00000	0.00008	0.00108	0.00001	0.00010	0.00103
629643	5846372	C502	1.86	0.00014	0.04781	0.00003	0.00022	0.00345	0.00006	0.00026	0.00000	0.05501	0.00000	0.00003	0.00001	0.00001	0.00070	0.00000	0.00000	0.00003	0.00086	0.00000	0.00006	0.00085	0.00001	0.00008	0.00082
631620	5848435	C503	3.87	0.00028	0.09920	0.00006	0.00046	0.00716	0.00013	0.00055	0.00000	0.11413	0.00000	0.00007	0.00002	0.00001	0.00145	0.00000	0.00000	0.00007	0.00179	0.00001	0.00013	0.00177	0.00002	0.00017	0.00170
631326	5847777	C504	3.21	0.00023	0.08233	0.00005	0.00039	0.00594	0.00011	0.00045	0.00000	0.09472	0.00000	0.00006	0.00001	0.00001	0.00120	0.00000	0.00000	0.00005	0.00149	0.00001	0.00010	0.00147	0.00002	0.00014	0.00141
631880	5848045	C505	3.54	0.00026	0.09088	0.00005	0.00042	0.00656	0.00012	0.00050	0.00000	0.10455	0.00000	0.00007	0.00002	0.00001	0.00133	0.00000	0.00000	0.00006	0.00164	0.00001	0.00011	0.00162	0.00002	0.00015	0.00156
631823	5847529	C506	3.09	0.00023	0.07931	0.00005	0.00037	0.00572	0.00011	0.00044	0.00000	0.09124	0.00000	0.00006	0.00001	0.00001	0.00116	0.00000	0.00000	0.00005	0.00143	0.00001	0.00010	0.00142	0.00002	0.00013	0.00136
631882	5847345	C507	2.95	0.00022	0.07579	0.00004	0.00035	0.00547	0.00010	0.00042	0.00000	0.08719	0.00000	0.00005	0.00001	0.00001	0.00111	0.00000	0.00000	0.00005	0.00137	0.00000	0.00010	0.00135	0.00002	0.00013	0.00130
632025	5846766	C508	2.57	0.00019	0.06587	0.00004	0.00031	0.00475	0.00009	0.00036	0.00000	0.07578	0.00000	0.00005	0.00001	0.00001	0.00096	0.00000	0.00000	0.00004	0.00119	0.00000	0.00008	0.00118	0.00002	0.00011	0.00113
630856	5847060	C509	2.64	0.00019	0.06783	0.00004	0.00032	0.00490	0.00009	0.00037	0.00000	0.07804	0.00000	0.00005	0.00001	0.00001	0.00099	0.00000	0.00000	0.00004	0.00123	0.00000	0.00009	0.00121	0.00002	0.00012	0.00116
630937	5846640	C510	2.45	0.00018	0.06283	0.00004	0.00029	0.00453	0.00008	0.00035	0.00000	0.07229	0.00000	0.00005	0.00001	0.00001	0.00092	0.00000	0.00000	0.00004	0.00114	0.00000	0.00008	0.00112	0.00001	0.00011	0.00108
631031	5846241	C511	2.26	0.00017	0.05812	0.00003	0.00027	0.00419	0.00008	0.00032	0.00000	0.06686	0.00000	0.00004	0.00001	0.00001	0.00085	0.00000	0.00000	0.00004	0.00105	0.00000	0.00007	0.00104	0.00001	0.00010	0.00100
631246	5846057	C512	2.19	0.00016	0.05632	0.00003	0.00026	0.00406	0.00007	0.00031	0.00000	0.06479	0.00000	0.00004	0.00001	0.00001	0.00082	0.00000	0.00000	0.00004	0.00102	0.00000	0.00007	0.00101	0.00001	0.00010	0.00097
631149	5846104	C513	2.21	0.00016	0.05673	0.00003	0.00027	0.00409	0.00008	0.00031	0.00000	0.06526	0.00000	0.00004	0.00001	0.00001	0.00083	0.00000	0.00000	0.00004	0.00103	0.00000	0.00007	0.00101	0.00001	0.00010	0.00097
630186	5845857	C514	1.93	0.00014	0.04951	0.00003	0.00023	0.00357	0.00007	0.00027	0.00000	0.05696	0.00000	0.00004	0.00001	0.00001	0.00072	0.00000	0.00000	0.00003	0.00089	0.00000	0.00006	0.00088	0.00001	0.00008	0.00085
630521	5844827	C515	1.68	0.00012	0.04309	0.00003	0.00020	0.00311	0.00006	0.00024	0.00000	0.04957	0.00000	0.00003	0.00001	0.00000	0.00063	0.00000	0.00000	0.00003	0.00078	0.00000	0.00005	0.00077	0.00001	0.00007	0.00074
630500	5845041	C516	1.74	0.00013	0.04461	0.00003	0.00021	0.00322	0.00006	0.00025	0.00000	0.05132	0.00000	0.00003	0.00001	0.00001	0.00065	0.00000	0.00000	0.00003	0.00081	0.00000	0.00006	0.00080	0.00001	0.00008	0.00076
631014	5845317	C517	1.88	0.00014	0.04828	0.00003	0.00023	0.00348	0.00006	0.00027	0.00000	0.05554	0.00000	0.00003	0.00001	0.00001	0.00070	0.00000	0.00000	0.00003	0.00087	0.00000	0.00006	0.00086	0.00001	0.00008	0.00083
631354	5845361	C518	1.91	0.00014	0.04904	0.00003	0.00023	0.00354	0.00006	0.00027	0.00000	0.05642	0.00000	0.00004	0.00001	0.00001	0.00072	0.00000	0.00000	0.00003	0.00089	0.00000	0.00006	0.00088	0.00001	0.00008	0.00084
632084	5844943	C519	1.79	0.00013	0.04586	0.00003	0.00021	0.00331	0.00006	0.00025	0.00000	0.05275	0.00000	0.00003	0.00001	0.00001	0.00067	0.00000	0.00000	0.00003	0.00083	0.00000	0.00006	0.00082	0.00001	0.00008	0.00079
632227	5845440	C520	1.95	0.00014	0.05010	0.00003	0.00023	0.00362	0.00007	0.00028	0.00000	0.05764	0.00000	0.00004	0.00001	0.00001	0.00073	0.00000	0.00000	0.00003	0.00091	0.00000	0.00006	0.00089	0.00001	0.00009	0.00086
631938	5845809	C521	2.09	0.00015	0.05357	0.00003	0.00025	0.00387	0.00007	0.00030	0.00000	0.06163	0.00000	0.00004	0.00001	0.00001	0.00078	0.00000	0.00000	0.00004	0.00097	0.00000	0.00007	0.00096	0.00001	0.00009	0.00092
631611	5845632	C522	2.01	0.00015	0.05169	0.00003	0.00024	0.00373	0.00007	0.00029	0.00000	0.05946	0.00000	0.00004	0.00001	0.00001	0.00075	0.00000	0.00000	0.00003	0.00093	0.00000	0.00007	0.00092	0.00001	0.00009	0.00089
631655	5845664	C523	2.03	0.00015	0.05202	0.00003	0.00024	0.00375	0.00007	0.00029	0.00000	0.05985	0.00000	0.00004	0.00001	0.00001	0.00076	0.00000	0.00000	0.00003	0.00094	0.00000	0.00007	0.00093	0.00001	0.00009	0.00089
628692	5842475	C524	0.99	0.00007	0.02540	0.00001	0.00012	0.00183	0.00003	0.00014	0.00000	0.02922	0.00000	0.00002	0.00000	0.00000	0.00037	0.00000	0.00000	0.00002	0.00046	0.00000	0.00003	0.00045	0.00001	0.00004	0.00044
628547	5842771	C525	1.01	0.00007	0.02582	0.00002	0.00012	0.00186	0.00003	0.00014	0.00000	0.02971	0.00000	0.00002	0.00000	0.00000	0.00038	0.00000	0.00000	0.00002	0.00047	0.00000	0.00003	0.00046	0.00001	0.00004	0.00044
628397	5843141	C526	1.04	0.00008	0.02671	0.00002	0.00012	0.00193	0.00004	0.00015	0.00000	0.03072	0.00000	0.00002	0.00000	0.00000	0.00039	0.00000	0.00000	0.00002	0.00048	0.00000	0.00003	0.00048	0.00001	0.00005	0.00046
627634	5843239	C527	1.00	0.00007	0.02560	0.00001	0.00012	0.00185	0.00003	0.00014	0.00000	0.02945	0.00000	0.00002	0.00000	0.00000	0.00037	0.00000	0.00000	0.00002	0.00046	0.00000	0.00003	0.00046	0.00001	0.00004	0.00044
628194	5841854	C528	0.89	0.00007	0.02293	0.00001	0.00011	0.00165	0.00003	0.00013	0.00000	0.02637	0.00000	0.00002	0.00000	0.00000	0.00033	0.00000	0.00000	0.00002	0.00041	0.00000	0.00003	0.00041	0.00001	0.00004	0.00039

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
			Maximum	0.010	0.000001
			Maximum Location	LU12	LU12
635960	5857470	L1	12.04	0.00220	0.00000
641590	5856650	L2	10.53	0.00192	0.00000
643605.46	5861877.39	R1	2.12	0.00039	0.00000
639816.84	5866610.87	R2	1.68	0.00031	0.00000
629502.76	5851281.02	R3	5.62	0.00102	0.00000
643659.57	5863076.27	S1	2.01	0.00037	0.00000
640302	5867360.12	S2	1.56	0.00028	0.00000
628698.35	5851349.26	S3/H2	4.82	0.00088	0.00000
638644.9	5868617.98	H1	1.15	0.00021	0.00000
641084.378	5860081.616	LU1	9.72	0.00177	0.00000
640822.0221	5853089.835	LU2	9.21	0.00168	0.00000
644385.4952	5853040.005	LU3	3.84	0.00070	0.00000
634181.7454	5862440.707	LU4	2.80	0.00051	0.00000
633008.4728	5862215.534	LU5	3.91	0.00071	0.00000
638099.3314	5858558.498	LU6	9.99	0.00182	0.00000
637074.6166	5847769.461	LU7	3.35	0.00061	0.00000
640649.1666	5848093.083	LU8	4.06	0.00074	0.00000
643498.0193	5844896.092	LU9	1.69	0.00031	0.00000
642595.8009	5841625.55	LU10	1.09	0.00020	0.00000
636075.4345	5858012.684	LU11	9.57	0.00175	0.00000
631162	5855850	LU12	57.29	0.01045	0.00000
631662	5848350	LU13	3.79	0.00069	0.00000
632162	5845850	LU14	2.11	0.00038	0.00000
635730	5849661	C1	6.30	0.00115	0.00000
636577	5858531	C2	8.89	0.00162	0.00000
636140	5858010	C3	9.46	0.00173	0.00000
636150	5857871	C4	10.02	0.00183	0.00000
636111	5857723	C5	10.65	0.00194	0.00000
636065	5857542	C6	11.36	0.00207	0.00000
636018	5857320	C7	11.96	0.00218	0.00000
636115	5857199	C8	12.49	0.00228	0.00000
636071	5857083	C9	12.92	0.00236	0.00000
636105	5856822	C10	13.55	0.00247	0.00000
636098	5856774	C11	14.19	0.00259	0.00000
636907	5856913	C12 (MAX)	16.92	0.00309	0.00000
637468	5857501	C13	13.00	0.00237	0.00000
637586	5857770	C14	12.13	0.00221	0.00000
637560	5858030	C15	10.80	0.00197	0.00000
637559	5858098	C16	10.66	0.00194	0.00000
637382	5858387	C17	10.04	0.00183	0.00000
636439	5858885	C18	7.40	0.00135	0.00000
636532	5858958	C19	7.55	0.00138	0.00000
636641	5859177	C20	7.39	0.00135	0.00000
636587	5859379	C21	6.83	0.00125	0.00000
636606	5859083	C22	7.50	0.00137	0.00000
636333	5859399	C23	6.08	0.00111	0.00000
636210	5859591	C24	5.58	0.00102	0.00000
637527	5858534	C25	9.48	0.00173	0.00000
638188	5859443	C26	7.14	0.00130	0.00000
638031	5859903	C27	6.51	0.00119	0.00000
638118	5860165	C28	6.07	0.00111	0.00000
638095	5860245	C29	5.97	0.00109	0.00000
635722	5860584	C30	4.30	0.00078	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
635612	5860422	C31	4.22	0.00077	0.00000
635465	5860366	C32	4.16	0.00076	0.00000
635190	5860556	C33	4.08	0.00074	0.00000
635188	5860635	C34	4.03	0.00074	0.00000
635168	5860785	C35	3.93	0.00072	0.00000
635180	5860828	C36	3.88	0.00071	0.00000
635148	5860858	C37	3.87	0.00071	0.00000
640778	5857817	C38	9.04	0.00165	0.00000
640792	5857910	C39	8.76	0.00160	0.00000
641137	5857913	C40	7.99	0.00146	0.00000
641364	5857725	C41	8.06	0.00147	0.00000
641817	5857027	C42	8.30	0.00151	0.00000
641845	5856814	C43	8.79	0.00160	0.00000
641912	5857277	C44	7.50	0.00137	0.00000
641840	5857280	C45	7.71	0.00141	0.00000
641870	5857362	C46	7.52	0.00137	0.00000
641637	5857345	C47	8.15	0.00149	0.00000
641560	5857425	C48	8.22	0.00150	0.00000
641454	5857455	C49	8.36	0.00152	0.00000
641550	5857525	C50	8.07	0.00147	0.00000
641466	5857605	C51	8.05	0.00147	0.00000
643367	5857533	C52	4.85	0.00088	0.00000
641285	5858131	C53	7.39	0.00135	0.00000
641270	5858280	C54	7.26	0.00132	0.00000
645508	5854970	C55	2.96	0.00054	0.00000
645337	5854863	C56	3.03	0.00055	0.00000
645280	5854855	C57	3.05	0.00056	0.00000
644937	5855135	C58	3.16	0.00058	0.00000
644879	5855382	C59	3.11	0.00057	0.00000
644973	5855439	C60	3.06	0.00056	0.00000
645128	5855811	C61	2.92	0.00053	0.00000
645033	5855931	C62	3.00	0.00055	0.00000
645036	5856103	C63	3.00	0.00055	0.00000
645180	5855879	C64	2.91	0.00053	0.00000
645330	5855813	C65	2.90	0.00053	0.00000
645506	5855706	C66	2.94	0.00054	0.00000
645632	5855645	C67	3.03	0.00055	0.00000
645590	5855519	C68	2.94	0.00054	0.00000
645598	5855459	C69	2.99	0.00055	0.00000
645662	5855286	C70	2.93	0.00053	0.00000
645835	5855153	C71	2.86	0.00052	0.00000
645976	5855021	C72	2.88	0.00053	0.00000
646064	5854763	C73	2.86	0.00052	0.00000
645907	5854390	C74	2.92	0.00053	0.00000
645885	5854242	C75	2.98	0.00054	0.00000
645737	5853966	C76	2.93	0.00053	0.00000
646109	5853232	C77	2.91	0.00053	0.00000
646092	5852876	C78	2.92	0.00053	0.00000
646044	5852660	C79	2.92	0.00053	0.00000
646428	5852634	C80	2.82	0.00051	0.00000
646459	5852650	C81	2.81	0.00051	0.00000
647491	5856467	C82	2.16	0.00039	0.00000
647943	5857121	C83	1.95	0.00036	0.00000
650541	5853616	C84	1.63	0.00030	0.00000
649585	5855076	C85	1.68	0.00031	0.00000
649478	5856416	C86	1.61	0.00029	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
647046	5860524	C87	1.71	0.00031	0.00000
649298	5858934	C88	1.41	0.00026	0.00000
649221	5858590	C89	1.48	0.00027	0.00000
655939	5864862	C90	0.42	0.00008	0.00000
653216	5864965	C91	0.54	0.00010	0.00000
650592	5866521	C92	0.67	0.00012	0.00000
654383	5868124	C93	0.43	0.00008	0.00000
652330	5866689	C94	0.55	0.00010	0.00000
652553	5866833	C95	0.53	0.00010	0.00000
651537	5866940	C96	0.59	0.00011	0.00000
651680	5866973	C97	0.58	0.00011	0.00000
652221	5867025	C98	0.54	0.00010	0.00000
652077	5867051	C99	0.55	0.00010	0.00000
651961	5867112	C100	0.56	0.00010	0.00000
651905	5867245	C101	0.56	0.00010	0.00000
651748	5867033	C102	0.57	0.00010	0.00000
651696	5867089	C103	0.57	0.00010	0.00000
651770	5867105	C104	0.57	0.00010	0.00000
651729	5867176	C105	0.57	0.00010	0.00000
651644	5867146	C106	0.57	0.00010	0.00000
651661	5867207	C107	0.57	0.00010	0.00000
651724	5867266	C108	0.57	0.00010	0.00000
651643	5867292	C109	0.57	0.00010	0.00000
651530	5867285	C110	0.58	0.00010	0.00000
651454	5867326	C111	0.58	0.00011	0.00000
651429	5867373	C112	0.58	0.00011	0.00000
651534	5867399	C113	0.57	0.00010	0.00000
651493	5867516	C114	0.57	0.00010	0.00000
651408	5867479	C115	0.58	0.00011	0.00000
651364	5867523	C116	0.58	0.00011	0.00000
651278	5867742	C117	0.58	0.00010	0.00000
651350	5867873	C118	0.57	0.00010	0.00000
644982	5868164	C119	0.98	0.00018	0.00000
645736	5872547	C120	0.62	0.00011	0.00000
647298	5871617	C121	0.55	0.00010	0.00000
647380	5872093	C122	0.52	0.00010	0.00000
647567	5872814	C123	0.49	0.00009	0.00000
648994	5873411	C124	0.42	0.00008	0.00000
648810	5872842	C125	0.45	0.00008	0.00000
649250	5872924	C126	0.44	0.00008	0.00000
649691	5872831	C127	0.44	0.00008	0.00000
649454	5872485	C128	0.45	0.00008	0.00000
648506	5871449	C129	0.52	0.00010	0.00000
648477	5871383	C130	0.53	0.00010	0.00000
648480	5871299	C131	0.53	0.00010	0.00000
649256	5871272	C132	0.51	0.00009	0.00000
649219	5871153	C133	0.52	0.00009	0.00000
649040	5870831	C134	0.54	0.00010	0.00000
648373	5871125	C135	0.54	0.00010	0.00000
648315	5870872	C136	0.56	0.00010	0.00000
647828	5870049	C137	0.62	0.00011	0.00000
647878	5869444	C138	0.65	0.00012	0.00000
648314	5870737	C139	0.56	0.00010	0.00000
648272	5870692	C140	0.57	0.00010	0.00000
648269	5870647	C141	0.57	0.00010	0.00000
648258	5870593	C142	0.57	0.00010	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
648264	5870554	C143	0.57	0.00010	0.00000
648270	5870506	C144	0.58	0.00011	0.00000
648272	5870458	C145	0.58	0.00011	0.00000
648265	5870409	C146	0.58	0.00011	0.00000
648284	5870335	C147	0.59	0.00011	0.00000
648252	5870309	C148	0.59	0.00011	0.00000
649181	5870379	C149	0.55	0.00010	0.00000
648970	5869837	C150	0.59	0.00011	0.00000
648958	5869792	C151	0.59	0.00011	0.00000
648936	5869728	C152	0.59	0.00011	0.00000
648920	5869646	C153	0.60	0.00011	0.00000
648852	5870349	C154	0.57	0.00010	0.00000
648843	5870252	C155	0.57	0.00010	0.00000
648898	5870384	C156	0.56	0.00010	0.00000
648951	5870402	C157	0.56	0.00010	0.00000
649025	5870559	C158	0.55	0.00010	0.00000
648631	5869828	C159	0.60	0.00011	0.00000
648642	5869878	C160	0.60	0.00011	0.00000
648651	5869930	C161	0.60	0.00011	0.00000
648642	5870001	C162	0.59	0.00011	0.00000
648638	5870052	C163	0.59	0.00011	0.00000
648632	5870102	C164	0.59	0.00011	0.00000
648640	5870160	C165	0.58	0.00011	0.00000
648630	5870277	C166	0.58	0.00011	0.00000
648618	5870215	C167	0.58	0.00011	0.00000
648594	5870174	C168	0.58	0.00011	0.00000
648572	5870134	C169	0.59	0.00011	0.00000
648562	5870092	C170	0.59	0.00011	0.00000
648563	5870003	C171	0.59	0.00011	0.00000
648562	5869933	C172	0.60	0.00011	0.00000
648542	5869871	C173	0.60	0.00011	0.00000
648509	5869939	C174	0.60	0.00011	0.00000
648495	5869806	C175	0.61	0.00011	0.00000
648497	5869710	C176	0.61	0.00011	0.00000
648450	5869788	C177	0.61	0.00011	0.00000
648394	5869829	C178	0.61	0.00011	0.00000
648333	5869845	C179	0.61	0.00011	0.00000
648183	5869654	C180	0.63	0.00011	0.00000
648163	5869723	C181	0.62	0.00011	0.00000
648128	5869768	C182	0.62	0.00011	0.00000
648100	5869845	C183	0.62	0.00011	0.00000
648110	5869905	C184	0.62	0.00011	0.00000
648153	5869932	C185	0.61	0.00011	0.00000
648059	5869943	C186	0.62	0.00011	0.00000
648034	5869998	C187	0.61	0.00011	0.00000
648094	5870000	C188	0.61	0.00011	0.00000
648089	5870035	C189	0.61	0.00011	0.00000
648087	5870095	C190	0.61	0.00011	0.00000
648099	5870138	C191	0.60	0.00011	0.00000
648165	5870013	C192	0.61	0.00011	0.00000
648175	5870059	C193	0.60	0.00011	0.00000
648198	5870103	C194	0.60	0.00011	0.00000
648206	5870040	C195	0.60	0.00011	0.00000
648201	5869958	C196	0.61	0.00011	0.00000
648259	5870043	C197	0.60	0.00011	0.00000
648249	5869959	C198	0.61	0.00011	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
648277	5869977	C199	0.61	0.00011	0.00000
648280	5869924	C200	0.61	0.00011	0.00000
651945	5870271	C201	0.45	0.00008	0.00000
651677	5870154	C202	0.46	0.00008	0.00000
651358	5870320	C203	0.47	0.00009	0.00000
651367	5870393	C204	0.47	0.00009	0.00000
651356	5870439	C205	0.47	0.00008	0.00000
651157	5870971	C206	0.46	0.00008	0.00000
651172	5870889	C207	0.46	0.00008	0.00000
651287	5870887	C208	0.45	0.00008	0.00000
651278	5870756	C209	0.46	0.00008	0.00000
651334	5870667	C210	0.46	0.00008	0.00000
651541	5870880	C211	0.44	0.00008	0.00000
651555	5870971	C212	0.44	0.00008	0.00000
651664	5872079	C213	0.41	0.00008	0.00000
651168	5872216	C214	0.43	0.00008	0.00000
651309	5872616	C215	0.41	0.00008	0.00000
651406	5872687	C216	0.41	0.00007	0.00000
651702	5872788	C217	0.40	0.00007	0.00000
652123	5872653	C218	0.39	0.00007	0.00000
652137	5872385	C219	0.39	0.00007	0.00000
651902	5872256	C220	0.40	0.00007	0.00000
652139	5871372	C221	0.41	0.00008	0.00000
652202	5871434	C222	0.41	0.00007	0.00000
652479	5871780	C223	0.39	0.00007	0.00000
652688	5871967	C224	0.38	0.00007	0.00000
653634	5871447	C225	0.37	0.00007	0.00000
654237	5871709	C226	0.35	0.00006	0.00000
654126	5871774	C227	0.35	0.00006	0.00000
654058	5871822	C228	0.35	0.00006	0.00000
653897	5872230	C229	0.35	0.00006	0.00000
653958	5872375	C230	0.34	0.00006	0.00000
653813	5872764	C231	0.34	0.00006	0.00000
654316	5873211	C232	0.32	0.00006	0.00000
654464	5873391	C233	0.31	0.00006	0.00000
654568	5873147	C234	0.31	0.00006	0.00000
654435	5873112	C235	0.32	0.00006	0.00000
654502	5873072	C236	0.32	0.00006	0.00000
654560	5873037	C237	0.32	0.00006	0.00000
654417	5873018	C238	0.32	0.00006	0.00000
654533	5872976	C239	0.32	0.00006	0.00000
654475	5872843	C240	0.32	0.00006	0.00000
654527	5872824	C241	0.32	0.00006	0.00000
654585	5872884	C242	0.32	0.00006	0.00000
654712	5872759	C243	0.31	0.00006	0.00000
654603	5872652	C244	0.32	0.00006	0.00000
654615	5872495	C245	0.33	0.00006	0.00000
654701	5872347	C246	0.33	0.00006	0.00000
654827	5872301	C247	0.32	0.00006	0.00000
654883	5872208	C248	0.32	0.00006	0.00000
654891	5872150	C249	0.32	0.00006	0.00000
654759	5872177	C250	0.33	0.00006	0.00000
654788	5872127	C251	0.33	0.00006	0.00000
655144	5871118	C252	0.34	0.00006	0.00000
648102	5875979	C253	0.35	0.00006	0.00000
651945	5874721	C254	0.34	0.00006	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
652653	5874100	C255	0.34	0.00006	0.00000
653035	5874384	C256	0.33	0.00006	0.00000
653048	5874439	C257	0.33	0.00006	0.00000
653058	5874488	C258	0.32	0.00006	0.00000
653088	5874541	C259	0.32	0.00006	0.00000
653119	5874586	C260	0.32	0.00006	0.00000
653053	5874685	C261	0.32	0.00006	0.00000
653419	5874771	C262	0.31	0.00006	0.00000
653624	5874867	C263	0.31	0.00006	0.00000
653740	5875312	C264	0.29	0.00005	0.00000
653331	5875587	C265	0.29	0.00005	0.00000
653431	5876074	C266	0.28	0.00005	0.00000
652687	5876590	C267	0.27	0.00005	0.00000
653006	5877664	C268	0.23	0.00004	0.00000
652913	5878002	C269	0.22	0.00004	0.00000
654087	5876771	C270	0.25	0.00005	0.00000
654390	5876812	C271	0.24	0.00004	0.00000
654516	5876861	C272	0.24	0.00004	0.00000
654613	5877129	C273	0.23	0.00004	0.00000
654712	5877345	C274	0.22	0.00004	0.00000
655194	5877509	C275	0.21	0.00004	0.00000
655948	5877716	C276	0.19	0.00004	0.00000
655845	5877809	C277	0.19	0.00004	0.00000
655662	5878268	C278	0.18	0.00003	0.00000
655612	5878362	C279	0.18	0.00003	0.00000
655714	5878551	C280	0.17	0.00003	0.00000
655750	5879082	C281	0.16	0.00003	0.00000
655705	5879176	C282	0.15	0.00003	0.00000
655698	5879229	C283	0.15	0.00003	0.00000
655692	5879276	C284	0.15	0.00003	0.00000
655687	5879312	C285	0.15	0.00003	0.00000
655663	5879335	C286	0.15	0.00003	0.00000
655586	5879390	C287	0.15	0.00003	0.00000
655568	5879451	C288	0.15	0.00003	0.00000
655536	5879531	C289	0.14	0.00003	0.00000
655510	5879565	C290	0.14	0.00003	0.00000
655522	5879635	C291	0.14	0.00003	0.00000
655470	5879667	C292	0.14	0.00003	0.00000
655759	5879806	C293	0.13	0.00002	0.00000
655849	5879887	C294	0.13	0.00002	0.00000
655904	5879874	C295	0.13	0.00002	0.00000
655920	5879833	C296	0.13	0.00002	0.00000
655937	5879788	C297	0.13	0.00002	0.00000
655959	5879743	C298	0.13	0.00002	0.00000
655981	5879336	C299	0.15	0.00003	0.00000
656134	5879093	C300	0.15	0.00003	0.00000
656122	5879037	C301	0.15	0.00003	0.00000
656200	5878850	C302	0.16	0.00003	0.00000
656222	5878811	C303	0.16	0.00003	0.00000
656264	5878773	C304	0.16	0.00003	0.00000
656283	5878750	C305	0.16	0.00003	0.00000
656569	5878718	C306	0.16	0.00003	0.00000
656610	5878724	C307	0.16	0.00003	0.00000
656672	5878658	C308	0.16	0.00003	0.00000
656727	5878687	C309	0.16	0.00003	0.00000
657116	5878638	C310	0.15	0.00003	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
657218	5878747	C311	0.15	0.00003	0.00000
656827	5878816	C312	0.15	0.00003	0.00000
656811	5878856	C313	0.15	0.00003	0.00000
656761	5878872	C314	0.15	0.00003	0.00000
656749	5878923	C315	0.15	0.00003	0.00000
656727	5878962	C316	0.15	0.00003	0.00000
656706	5879002	C317	0.15	0.00003	0.00000
656675	5879036	C318	0.15	0.00003	0.00000
656652	5879085	C319	0.15	0.00003	0.00000
656636	5879131	C320	0.14	0.00003	0.00000
656387	5879799	C321	0.13	0.00002	0.00000
656370	5879851	C322	0.12	0.00002	0.00000
656353	5879896	C323	0.12	0.00002	0.00000
653229	5878711	C324	0.19	0.00003	0.00000
659194	5877695	C325	0.14	0.00003	0.00000
659742	5879642	C326	0.09	0.00002	0.00000
659782	5879684	C327	0.09	0.00002	0.00000
659872	5879695	C328	0.09	0.00002	0.00000
660349	5879906	C329	0.08	0.00001	0.00000
660518	5879947	C330	0.08	0.00001	0.00000
661421	5879718	C331	0.07	0.00001	0.00000
661493	5879729	C332	0.06	0.00001	0.00000
646105	5852102	C333	2.83	0.00052	0.00000
647139	5852170	C334	2.62	0.00048	0.00000
643788	5855912	C335	4.27	0.00078	0.00000
641867	5855100	C336	9.88	0.00180	0.00000
642951	5852301	C337	4.95	0.00090	0.00000
640185	5848135	C338	4.17	0.00076	0.00000
643735	5844087	C339	1.45	0.00026	0.00000
643567	5839358	C340	0.83	0.00015	0.00000
634702	5859483	C341	7.10	0.00130	0.00000
634666	5859995	C342	5.77	0.00105	0.00000
634659	5860951	C343	3.92	0.00072	0.00000
632662	5861641	C344	5.15	0.00094	0.00000
632659	5861856	C345	4.81	0.00088	0.00000
633647	5862664	C346	2.79	0.00051	0.00000
634888	5860864	C347	4.00	0.00073	0.00000
634890	5860888	C348	3.96	0.00072	0.00000
635091	5860937	C349	3.77	0.00069	0.00000
635065	5860944	C350	3.78	0.00069	0.00000
635052	5860976	C351	3.76	0.00069	0.00000
634970	5860936	C352	3.89	0.00071	0.00000
635023	5861008	C353	3.76	0.00069	0.00000
634957	5861081	C354	3.73	0.00068	0.00000
634815	5861127	C355	3.70	0.00067	0.00000
635036	5861316	C356	3.59	0.00065	0.00000
635162	5861326	C357	3.62	0.00066	0.00000
634845	5861354	C358	3.54	0.00065	0.00000
634799	5861381	C359	3.51	0.00064	0.00000
634807	5861446	C360	3.49	0.00064	0.00000
634799	5861486	C361	3.47	0.00063	0.00000
634775	5861537	C362	3.43	0.00063	0.00000
634754	5861592	C363	3.40	0.00062	0.00000
634742	5861622	C364	3.38	0.00062	0.00000
634700	5861717	C365	3.32	0.00061	0.00000
634648	5861759	C366	3.28	0.00060	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
634612	5861830	C367	3.23	0.00059	0.00000
634602	5861867	C368	3.21	0.00059	0.00000
634794	5861748	C369	3.33	0.00061	0.00000
634894	5861777	C370	3.30	0.00060	0.00000
634797	5861656	C371	3.39	0.00062	0.00000
634842	5861619	C372	3.43	0.00063	0.00000
634856	5861562	C373	3.46	0.00063	0.00000
634874	5861521	C374	3.48	0.00063	0.00000
634872	5861484	C375	3.50	0.00064	0.00000
634889	5861408	C376	3.51	0.00064	0.00000
634927	5861378	C377	3.54	0.00065	0.00000
634931	5861326	C378	3.56	0.00065	0.00000
635001	5861307	C379	3.58	0.00065	0.00000
635178	5861389	C380	3.60	0.00066	0.00000
635129	5861415	C381	3.56	0.00065	0.00000
635078	5861447	C382	3.51	0.00064	0.00000
635041	5861481	C383	3.47	0.00063	0.00000
635007	5861513	C384	3.46	0.00063	0.00000
634975	5861552	C385	3.43	0.00063	0.00000
634966	5861604	C386	3.41	0.00062	0.00000
634965	5861650	C387	3.38	0.00062	0.00000
634933	5861729	C388	3.34	0.00061	0.00000
634720	5861903	C389	3.19	0.00058	0.00000
634674	5861939	C390	3.18	0.00058	0.00000
634633	5861947	C391	3.17	0.00058	0.00000
631918	5864061	C392	2.61	0.00048	0.00000
631635	5864245	C393	2.47	0.00045	0.00000
631596	5864310	C394	2.44	0.00045	0.00000
631426	5864364	C395	2.38	0.00043	0.00000
631376	5864401	C396	2.35	0.00043	0.00000
631353	5864438	C397	2.33	0.00042	0.00000
631356	5864521	C398	2.28	0.00042	0.00000
631202	5864478	C399	2.28	0.00042	0.00000
631123	5864530	C400	2.22	0.00041	0.00000
631228	5864629	C401	2.21	0.00040	0.00000
630947	5864638	C402	2.12	0.00039	0.00000
630884	5864669	C403	2.08	0.00038	0.00000
630852	5864739	C404	2.04	0.00037	0.00000
630795	5864783	C405	2.00	0.00037	0.00000
630714	5864851	C406	1.94	0.00035	0.00000
630606	5864913	C407	1.87	0.00034	0.00000
630537	5864985	C408	1.82	0.00033	0.00000
630525	5865056	C409	1.80	0.00033	0.00000
630640	5865177	C410	1.80	0.00033	0.00000
630567	5865763	C411	1.62	0.00030	0.00000
631282	5865426	C412	1.83	0.00033	0.00000
632004	5865578	C413	1.72	0.00031	0.00000
632080	5865528	C414	1.73	0.00032	0.00000
632587	5865628	C415	1.57	0.00029	0.00000
632732	5866318	C416	1.27	0.00023	0.00000
632922	5866042	C417	1.33	0.00024	0.00000
632958	5866077	C418	1.31	0.00024	0.00000
633002	5866062	C419	1.30	0.00024	0.00000
633121	5866206	C420	1.24	0.00023	0.00000
633171	5866177	C421	1.24	0.00023	0.00000
633224	5866191	C422	1.23	0.00022	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
633281	5866125	C423	1.24	0.00023	0.00000
633337	5866101	C424	1.24	0.00023	0.00000
633366	5866083	C425	1.24	0.00023	0.00000
633424	5866069	C426	1.24	0.00023	0.00000
633441	5866043	C427	1.25	0.00023	0.00000
633416	5866144	C428	1.22	0.00022	0.00000
633382	5866155	C429	1.22	0.00022	0.00000
633337	5866176	C430	1.22	0.00022	0.00000
633263	5866223	C431	1.21	0.00022	0.00000
633042	5864004	C432	2.32	0.00042	0.00000
635709	5867706	C433	1.06	0.00019	0.00000
625388	5863092	C434	0.81	0.00015	0.00000
625920	5861156	C435	1.10	0.00020	0.00000
625442	5861111	C436	1.01	0.00019	0.00000
625549	5860833	C437	1.07	0.00020	0.00000
625534	5860895	C438	1.06	0.00019	0.00000
625503	5860935	C439	1.05	0.00019	0.00000
625491	5860984	C440	1.04	0.00019	0.00000
625463	5861044	C441	1.02	0.00019	0.00000
627494	5859339	C442	1.87	0.00034	0.00000
627568	5859552	C443	1.87	0.00034	0.00000
627722	5859592	C444	2.00	0.00036	0.00000
627868	5860070	C445	2.04	0.00037	0.00000
627927	5860110	C446	2.08	0.00038	0.00000
627972	5860154	C447	2.10	0.00038	0.00000
628037	5860189	C448	2.15	0.00039	0.00000
624767	5861052	C449	0.99	0.00018	0.00000
636109	5858269	C450	8.58	0.00157	0.00000
636117	5858111	C451	9.08	0.00166	0.00000
636305	5857911	C452	10.22	0.00187	0.00000
623261	5854417	C453	0.91	0.00017	0.00000
622652	5855438	C454	0.77	0.00014	0.00000
622708	5855457	C455	0.78	0.00014	0.00000
624826	5857667	C456	1.25	0.00023	0.00000
634870	5861276	C457	3.58	0.00065	0.00000
638207	5859662	C458	6.81	0.00124	0.00000
640974	5858285	C459	7.78	0.00142	0.00000
641865	5856903	C460	8.59	0.00157	0.00000
635118	5851125	C461	9.29	0.00169	0.00000
646196	5852986	C462	2.89	0.00053	0.00000
625475	5857021	C463	1.52	0.00028	0.00000
626098	5856799	C464	1.94	0.00035	0.00000
627564	5858039	C465	2.88	0.00052	0.00000
629357	5857727	C466	6.03	0.00110	0.00000
630419	5858921	C467	8.82	0.00161	0.00000
626642	5855576	C468	2.98	0.00054	0.00000
630232	5858750	C469	8.57	0.00156	0.00000
623764	5852692	C470	1.02	0.00019	0.00000
623459	5850433	C471	0.79	0.00014	0.00000
623460	5850000	C472	0.79	0.00014	0.00000
624604	5850547	C473	1.07	0.00020	0.00000
624617	5847632	C474	1.27	0.00023	0.00000
624830	5847971	C475	1.34	0.00024	0.00000
625323	5848229	C476	1.54	0.00028	0.00000
625741	5848075	C477	1.75	0.00032	0.00000
625759	5847941	C478	1.75	0.00032	0.00000

Table 2-7: Annual Air Quality Screening for Metals

Easting	Northing	HHRA ID	Metal Parameter	Zr	Hg
			Screening Criteria	5	0.03
			95th Percentile of Metal Concentration (%)	0.02%	0.000003%
			Total Particulate Matter Concentration (ug/m^3)		
625815	5847804	C479	1.76	0.00032	0.00000
626223	5849126	C480	2.03	0.00037	0.00000
625431	5849151	C481	1.53	0.00028	0.00000
626474	5847197	C482	1.88	0.00034	0.00000
626396	5845965	C483	1.54	0.00028	0.00000
626683	5845314	C484	1.38	0.00025	0.00000
626999	5845577	C485	1.43	0.00026	0.00000
627003	5846179	C486	1.60	0.00029	0.00000
626961	5846463	C487	1.68	0.00031	0.00000
627273	5846354	C488	1.63	0.00030	0.00000
627718	5845172	C489	1.31	0.00024	0.00000
628038	5844373	C490	1.19	0.00022	0.00000
628284	5848046	C491	2.21	0.00040	0.00000
628253	5848298	C492	2.37	0.00043	0.00000
628223	5848529	C493	2.48	0.00045	0.00000
628578	5846400	C494	1.69	0.00031	0.00000
629041	5844898	C495	1.44	0.00026	0.00000
629002	5847706	C496	2.06	0.00038	0.00000
628885	5847934	C497	2.14	0.00039	0.00000
629224	5848000	C498	2.25	0.00041	0.00000
629015	5847203	C499	1.97	0.00036	0.00000
629458	5847746	C500	2.25	0.00041	0.00000
629868	5847537	C501	2.35	0.00043	0.00000
629643	5846372	C502	1.86	0.00034	0.00000
631620	5848435	C503	3.87	0.00071	0.00000
631326	5847777	C504	3.21	0.00059	0.00000
631880	5848045	C505	3.54	0.00065	0.00000
631823	5847529	C506	3.09	0.00056	0.00000
631882	5847345	C507	2.95	0.00054	0.00000
632025	5846766	C508	2.57	0.00047	0.00000
630856	5847060	C509	2.64	0.00048	0.00000
630937	5846640	C510	2.45	0.00045	0.00000
631031	5846241	C511	2.26	0.00041	0.00000
631246	5846057	C512	2.19	0.00040	0.00000
631149	5846104	C513	2.21	0.00040	0.00000
630186	5845857	C514	1.93	0.00035	0.00000
630521	5844827	C515	1.68	0.00031	0.00000
630500	5845041	C516	1.74	0.00032	0.00000
631014	5845317	C517	1.88	0.00034	0.00000
631354	5845361	C518	1.91	0.00035	0.00000
632084	5844943	C519	1.79	0.00033	0.00000
632227	5845440	C520	1.95	0.00036	0.00000
631938	5845809	C521	2.09	0.00038	0.00000
631611	5845632	C522	2.01	0.00037	0.00000
631655	5845664	C523	2.03	0.00037	0.00000
628692	5842475	C524	0.99	0.00018	0.00000
628547	5842771	C525	1.01	0.00018	0.00000
628397	5843141	C526	1.04	0.00019	0.00000
627634	5843239	C527	1.00	0.00018	0.00000
628194	5841854	C528	0.89	0.00016	0.00000

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria (µg/m^3)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
			Maximum	3.08E-05	1.57E-05	1.03E-06	6.88E-05	2.35E-05	1.27E-06	1.22E-04	4.13E-05	2.00E-06	6.14E-05	2.10E-05	1.21E-06
			Maximum Location	LU12	LU12	LU12	C12 (MAX)	C12 (MAX)	LU12	C12 (MAX)	C12 (MAX)	C12 (MAX)	C12 (MAX)	C12 (MAX)	LU12
6.4E+05	5.9E+06	Previous Receptors (Alderon 2012)	L1	2.1E-05	7.4E-06	4.1E-07	5.0E-05	1.8E-05	8.1E-07	8.7E-05	3.2E-05	1.4E-06	4.4E-05	1.6E-05	7.3E-07
6.4E+05	5.9E+06	Previous Receptors (Alderon 2012)	L2	1.0E-05	2.7E-06	2.8E-07	2.4E-05	5.0E-06	5.6E-07	4.2E-05	8.7E-06	9.4E-07	2.1E-05	4.4E-06	5.0E-07
6.4E+05	5.9E+06	Closest Residences	R1	3.2E-06	8.1E-07	6.3E-08	6.1E-06	1.5E-06	1.2E-07	1.0E-05	2.5E-06	2.0E-07	5.5E-06	1.4E-06	1.1E-07
6.4E+05	5.9E+06	Closest Residences	R2	3.1E-06	6.6E-07	5.5E-08	5.7E-06	1.3E-06	1.0E-07	9.6E-06	2.2E-06	1.7E-07	5.2E-06	1.2E-06	9.3E-08
6.3E+05	5.9E+06	Closest Residences	R3	6.2E-06	2.5E-06	1.5E-07	9.2E-06	3.4E-06	2.0E-07	1.4E-05	5.0E-06	2.9E-07	8.5E-06	3.2E-06	1.9E-07
6.4E+05	5.9E+06	Schools	S1	2.9E-06	7.3E-07	5.6E-08	4.9E-06	1.3E-06	1.0E-07	8.0E-06	2.1E-06	1.7E-07	4.5E-06	1.2E-06	9.5E-08
6.4E+05	5.9E+06	Schools	S2	2.9E-06	6.1E-07	5.1E-08	5.2E-06	1.2E-06	9.5E-08	8.7E-06	2.0E-06	1.6E-07	4.8E-06	1.0E-06	8.7E-08
6.3E+05	5.9E+06	Schools	S3/H2	6.2E-06	2.2E-06	1.3E-07	9.1E-06	2.9E-06	1.8E-07	1.4E-05	4.3E-06	2.6E-07	8.5E-06	2.8E-06	1.7E-07
6.4E+05	5.9E+06	Hospitals	H1	2.5E-06	5.1E-07	3.6E-08	3.9E-06	1.0E-06	6.2E-08	6.6E-06	1.7E-06	1.0E-07	3.6E-06	9.0E-07	5.7E-08
6.4E+05	5.9E+06	Land User	LU1	7.1E-06	2.3E-06	1.6E-07	1.6E-05	5.1E-06	3.2E-07	2.8E-05	9.0E-06	5.5E-07	1.4E-05	4.6E-06	2.9E-07
6.4E+05	5.9E+06	Land User	LU2	1.2E-05	3.5E-06	2.0E-07	2.6E-05	6.1E-06	3.7E-07	4.6E-05	1.0E-05	6.2E-07	2.4E-05	5.6E-06	3.4E-07
6.4E+05	5.9E+06	Land User	LU3	4.7E-06	1.8E-06	1.1E-07	8.4E-06	3.3E-06	2.0E-07	1.4E-05	5.3E-06	3.4E-07	7.7E-06	3.0E-06	1.9E-07
6.3E+05	5.9E+06	Land User	LU4	4.9E-06	1.9E-06	1.1E-07	9.9E-06	4.2E-06	2.0E-07	1.6E-05	7.3E-06	3.3E-07	8.9E-06	3.8E-06	1.8E-07
6.3E+05	5.9E+06	Land User	LU5	5.0E-06	1.7E-06	1.0E-07	8.3E-06	2.7E-06	1.6E-07	1.3E-05	4.4E-06	2.4E-07	7.6E-06	2.5E-06	1.5E-07
6.4E+05	5.9E+06	Land User	LU6	2.0E-05	4.1E-06	4.2E-07	4.4E-05	9.4E-06	8.8E-07	6.9E-05	1.7E-05	1.5E-06	4.0E-05	8.4E-06	7.9E-07
6.4E+05	5.8E+06	Land User	LU7	3.6E-06	1.0E-06	9.5E-08	6.4E-06	1.7E-06	1.6E-07	9.0E-06	2.8E-06	2.6E-07	5.8E-06	1.6E-06	1.5E-07
6.4E+05	5.8E+06	Land User	LU8	4.4E-06	1.5E-06	1.1E-07	7.6E-06	2.8E-06	2.0E-07	1.4E-05	4.7E-06	3.3E-07	7.0E-06	2.5E-06	1.8E-07
6.4E+05	5.8E+06	Land User	LU9	2.7E-06	1.0E-06	5.3E-08	4.6E-06	1.7E-06	9.3E-08	7.2E-06	2.8E-06	1.5E-07	4.2E-06	1.6E-06	8.5E-08
6.4E+05	5.8E+06	Land User	LU10	2.1E-06	6.4E-07	3.9E-08	3.5E-06	9.8E-07	6.8E-08	5.7E-06	1.6E-06	1.1E-07	3.2E-06	9.0E-07	6.3E-08
6.4E+05	5.9E+06	Land User	LU11	1.8E-05	5.7E-06	3.4E-07	4.1E-05	1.3E-05	6.7E-07	7.2E-05	2.2E-05	1.1E-06	3.6E-05	1.2E-05	6.1E-07
6.3E+05	5.9E+06	Land User	LU12	3.1E-05	1.6E-05	1.0E-06	4.1E-05	2.0E-05	1.3E-06	6.1E-05	2.9E-05	1.8E-06	3.9E-05	1.9E-05	1.2E-06
6.3E+05	5.8E+06	Land User	LU13	5.7E-06	2.2E-06	1.1E-07	6.8E-06	3.2E-06	1.6E-07	9.3E-06	4.9E-06	2.4E-07	6.5E-06	3.0E-06	1.5E-07
6.3E+05	5.8E+06	Land User	LU14	2.6E-06	1.2E-06	6.8E-08	3.7E-06	1.9E-06	1.0E-07	6.1E-06	3.0E-06	1.6E-07	3.5E-06	1.8E-06	9.6E-08
6.4E+05	5.8E+06	Cabin	C1	3.8E-06	1.4E-06	1.5E-07	8.5E-06	3.3E-06	2.7E-07	1.5E-05	5.7E-06	4.3E-07	7.6E-06	2.9E-06	2.4E-07
6.4E+05	5.9E+06	Cabin	C2	1.6E-05	5.3E-06	3.6E-07	3.8E-05	1.1E-05	7.3E-07	6.7E-05	1.9E-05	1.2E-06	3.4E-05	9.8E-06	6.6E-07
6.4E+05	5.9E+06	Cabin	C3	1.9E-05	5.9E-06	3.4E-07	4.3E-05	1.3E-05	6.6E-07	7.6E-05	2.3E-05	1.1E-06	3.9E-05	1.2E-05	5.9E-07
6.4E+05	5.9E+06	Cabin	C4	2.0E-05	6.6E-06	3.7E-07	4.6E-05	1.5E-05	7.2E-07	8.1E-05	2.6E-05	1.2E-06	4.1E-05	1.3E-05	6.5E-07
6.4E+05	5.9E+06	Cabin	C5	2.2E-05	7.0E-06	3.9E-07	5.2E-05	1.6E-05	7.7E-07	9.1E-05	2.7E-05	1.3E-06	4.6E-05	1.4E-05	6.9E-07
6.4E+05	5.9E+06	Cabin	C6	2.3E-05	7.1E-06	4.0E-07	5.5E-05	1.6E-05	7.7E-07	9.7E-05	2.8E-05	1.3E-06	4.9E-05	1.4E-05	7.0E-07
6.4E+05	5.9E+06	Cabin	C7	2.3E-05	6.8E-06	4.3E-07	5.3E-05	1.5E-05	8.4E-07	9.3E-05	2.6E-05	1.4E-06	4.7E-05	1.3E-05	7.6E-07
6.4E+05	5.9E+06	Cabin	C8	2.7E-05	7.5E-06	4.7E-07	6.3E-05	1.7E-05	9.3E-07	1.1E-04	2.9E-05	1.6E-06	5.6E-05	1.5E-05	8.4E-07
6.4E+05	5.9E+06	Cabin	C9	2.8E-05	7.0E-06	4.8E-07	6.4E-05	1.5E-05	9.5E-07	1.1E-04	2.6E-05	1.6E-06	5.7E-05	1.4E-05	8.6E-07
6.4E+05	5.9E+06	Cabin	C10	2.9E-05	6.3E-06	5.3E-07	6.6E-05	1.5E-05	1.0E-06	1.2E-04	2.5E-05	1.7E-06	5.9E-05	1.3E-05	9.3E-07
6.4E+05	5.9E+06	Cabin	C11	2.8E-05	6.7E-06	5.5E-07	6.5E-05	1.5E-05	1.1E-06	1.1E-04	2.7E-05	1.8E-06	5.8E-05	1.4E-05	9.8E-07
6.4E+05	5.9E+06	Cabin	C12 (MAX)	2.9E-05	1.0E-05	5.8E-07	6.9E-05	2.3E-05	1.2E-06	1.2E-04	4.1E-05	2.0E-06	6.1E-05	2.1E-05	1.1E-06
6.4E+05	5.9E+06	Cabin	C13	2.0E-05	6.1E-06	5.1E-07	4.7E-05	1.5E-05	1.0E-06	8.4E-05	2.6E-05	1.8E-06	4.2E-05	1.3E-05	9.4E-07
6.4E+05	5.9E+06	Cabin	C14	2.3E-05	6.8E-06	5.1E-07	5.3E-05	1.6E-05	1.0E-06	8.5E-05	2.9E-05	1.8E-06	4.8E-05	1.5E-05	9.4E-07
6.4E+05	5.9E+06	Cabin	C15	1.6E-05	5.5E-06	4.3E-07	3.7E-05	1.3E-05	8.7E-07	6.5E-05	2.3E-05	1.5E-06	3.3E-05	1.2E-05	7.9E-07
6.4E+05	5.9E+06	Cabin	C16	1.5E-05	5.7E-06	4.2E-07	3.6E-05	1.3E-05	8.6E-07	6.4E-05	2.3E-05	1.5E-06	3.2E-05	1.1E-05	7.8E-07
6.4E+05	5.9E+06	Cabin	C17	1.6E-05	5.8E-06	3.9E-07	3.8E-05	1.2E-05	7.8E-07	6.4E-05	2.1E-05	1.3E-06	3.4E-05	1.1E-05	7.1E-07
6.4E+05	5.9E+06	Cabin	C18	1.4E-05	5.0E-06	3.0E-07	3.3E-05	1.0E-05	6.1E-07	5.7E-05	1.7E-05	1.0E-06	2.9E-05	9.1E-06	5.5E-07
6.4E+05	5.9E+06	Cabin	C19	1.4E-05	5.1E-06	3.2E-07	3.2E-05	1.0E-05	6.4E-07	5.6E-05	1.8E-05	1.1E-06	2.8E-05	9.5E-06	5.8E-07
6.4E+05	5.9E+06	Cabin	C20	1.4E-05	5.3E-06	3.2E-07	3.2E-05	1.1E-05	6.6E-07	5.6E-05	1.9E-05	1.1E-06	2.9E-05	9.8E-06	6.0E-07
6.4E+05	5.9E+06	Cabin	C21	1.3E-05	5.1E-06	3.0E-07	3.0E-05	1.0E-05	6.1E-07	5.3E-05	1.8E-05	1.0E-06	2.7E-05	9.4E-06	5.5E-07
6.4E+05	5.9E+06	Cabin	C22	1.4E-05	5.2E-06	3.3E-07	3.2E-05	1.1E-05	6.6E-07	5.6E-05	1.8E-05	1.1E-06	2.9E-05	9.7E-06	6.0E-07
6.4E+05	5.9E+06	Cabin	C23	1.2E-05	4.4E-06	2.6E-07	2.7E-05	8.9E-06	5.1E-07	4.7E-05	1.5E-05	8.7E-07	2.4E-05	8.1E-06	4.7E-07
6.4E+05	5.9E+06	Cabin	C24	1.1E-05	4.1E-06	2.3E-07	2.4E-05	8.1E-06	4.6E-07	4.2E-05	1.4E-05	7.8E-07	2.1E-05	7.3E-06	4.2E-07
6.4E+05	5.9E+06	Cabin	C25	1.5E-05	5.3E-06	3.6E-07	3.4E-05	1.1E-05	7.3E-07	6.0E-05	1.9E-05	1.2E-06	3.1E-05	9.9E-06	6.6E-07
6.4E+05	5.9E+06	Cabin	C26	1.3E-05	3.5E-06	2.9E-07	2.7E-05	6.5E-06	6.0E-07	4.6E-05	1.2E-05	1.0E-06	2.4E-05	5.8E-06	5.4E-07
6.4E+05	5.9E+06	Cabin	C27	1.2E-05	3.2E-06	2.7E-07	2.5E-05	6.0E-06	5.5E-07	4.3E-05	1.0E-05	9.4E-07	2.3E-05	5.4E-06	5.0E-07
6.4E+05	5.9E+06	Cabin	C28	1.1E-05	2.8E-06	2.5E-07	2.5E-05	6.2E-06	5.0E-07	4.4E-05	1.1E-05	8.5E-07	2.2E-05	5.5E-06	4.5E-07
6.4E+05	5.9E+06	Cabin	C29	1.1E-05	2.8E-06	2.4E-07	2.5E-05	6.2E-06	4.9E-07	4.3E-05	1.1E-05	8.4E-07	2.2E-05	5.5E-06	4.4E-07
6.4E+05	5.9E+06	Cabin	C30	7.7E-06	3.1E-06	1.8E-07	1.7E-05	6.2E-06	3.4E-07	2.8E-05	1.1E-05	5.8E-07	1.5E-05	5.6E-06	3.1E-07
6.4E+05	5.9E+06	Cabin	C31	6.5E-06	2.9E-06	1.6E-07	1.5E-05	5.7E-06	3.0E-07	2.6E-05	9.6E-06	5.0E-07	1.3E-05	5.2E-06	2.7E-07

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.4E+05	5.9E+06	Cabin	C32	5.8E-06	2.7E-06	1.4E-07	1.3E-05	5.1E-06	2.6E-07	2.3E-05	8.6E-06	4.3E-07	1.2E-05	4.7E-06	2.4E-07
6.4E+05	5.9E+06	Cabin	C33	5.7E-06	2.4E-06	1.3E-07	1.2E-05	4.6E-06	2.3E-07	2.0E-05	7.6E-06	3.8E-07	1.0E-05	4.2E-06	2.1E-07
6.4E+05	5.9E+06	Cabin	C34	5.7E-06	2.4E-06	1.3E-07	1.2E-05	4.6E-06	2.4E-07	2.0E-05	7.7E-06	3.9E-07	1.0E-05	4.2E-06	2.2E-07
6.4E+05	5.9E+06	Cabin	C35	5.6E-06	2.4E-06	1.4E-07	1.2E-05	4.7E-06	2.5E-07	2.1E-05	7.8E-06	4.1E-07	1.1E-05	4.2E-06	2.3E-07
6.4E+05	5.9E+06	Cabin	C36	5.7E-06	2.4E-06	1.4E-07	1.2E-05	4.7E-06	2.5E-07	2.1E-05	7.9E-06	4.2E-07	1.1E-05	4.3E-06	2.3E-07
6.4E+05	5.9E+06	Cabin	C37	5.7E-06	2.4E-06	1.4E-07	1.2E-05	4.7E-06	2.5E-07	2.1E-05	7.8E-06	4.1E-07	1.1E-05	4.2E-06	2.3E-07
6.4E+05	5.9E+06	Cabin	C38	1.5E-05	5.4E-06	3.2E-07	3.4E-05	1.2E-05	6.7E-07	5.9E-05	2.1E-05	1.2E-06	3.1E-05	1.1E-05	6.1E-07
6.4E+05	5.9E+06	Cabin	C39	1.5E-05	4.9E-06	3.1E-07	3.3E-05	1.1E-05	6.4E-07	5.8E-05	1.9E-05	1.1E-06	3.0E-05	9.6E-06	5.8E-07
6.4E+05	5.9E+06	Cabin	C40	1.3E-05	4.5E-06	2.8E-07	2.9E-05	9.8E-06	5.7E-07	5.1E-05	1.7E-05	9.7E-07	2.6E-05	8.8E-06	5.1E-07
6.4E+05	5.9E+06	Cabin	C41	1.4E-05	4.8E-06	2.8E-07	3.1E-05	1.0E-05	5.7E-07	5.4E-05	1.8E-05	9.8E-07	2.8E-05	9.4E-06	5.2E-07
6.4E+05	5.9E+06	Cabin	C42	1.1E-05	2.8E-06	2.6E-07	2.5E-05	5.7E-06	5.3E-07	4.3E-05	9.7E-06	9.0E-07	2.2E-05	5.2E-06	4.8E-07
6.4E+05	5.9E+06	Cabin	C43	1.1E-05	2.6E-06	2.6E-07	2.3E-05	4.9E-06	5.2E-07	4.1E-05	8.2E-06	8.8E-07	2.1E-05	4.5E-06	4.7E-07
6.4E+05	5.9E+06	Cabin	C44	1.2E-05	3.3E-06	2.5E-07	2.5E-05	7.0E-06	5.2E-07	4.4E-05	1.2E-05	8.8E-07	2.3E-05	6.3E-06	4.6E-07
6.4E+05	5.9E+06	Cabin	C45	1.2E-05	3.4E-06	2.6E-07	2.6E-05	7.2E-06	5.3E-07	4.5E-05	1.2E-05	9.0E-07	2.3E-05	6.5E-06	4.8E-07
6.4E+05	5.9E+06	Cabin	C46	1.1E-05	3.6E-06	2.5E-07	2.5E-05	7.6E-06	5.2E-07	4.3E-05	1.3E-05	8.9E-07	2.2E-05	6.9E-06	4.7E-07
6.4E+05	5.9E+06	Cabin	C47	1.2E-05	3.8E-06	2.8E-07	2.6E-05	8.2E-06	5.7E-07	4.5E-05	1.4E-05	9.7E-07	2.3E-05	7.4E-06	5.1E-07
6.4E+05	5.9E+06	Cabin	C48	1.1E-05	4.2E-06	2.8E-07	2.5E-05	9.0E-06	5.8E-07	4.4E-05	1.6E-05	9.9E-07	2.2E-05	8.1E-06	5.2E-07
6.4E+05	5.9E+06	Cabin	C49	1.1E-05	4.4E-06	2.9E-07	2.5E-05	9.5E-06	6.0E-07	4.4E-05	1.7E-05	1.0E-06	2.3E-05	8.6E-06	5.4E-07
6.4E+05	5.9E+06	Cabin	C50	1.1E-05	4.4E-06	2.8E-07	2.5E-05	9.6E-06	5.7E-07	4.3E-05	1.7E-05	9.7E-07	2.2E-05	8.6E-06	5.1E-07
6.4E+05	5.9E+06	Cabin	C51	1.3E-05	4.6E-06	2.8E-07	2.8E-05	1.0E-05	5.7E-07	4.9E-05	1.8E-05	9.8E-07	2.5E-05	9.1E-06	5.2E-07
6.4E+05	5.9E+06	Cabin	C52	8.2E-06	2.7E-06	1.7E-07	1.8E-05	5.6E-06	3.4E-07	3.1E-05	9.6E-06	5.7E-07	1.6E-05	5.0E-06	3.0E-07
6.4E+05	5.9E+06	Cabin	C53	1.3E-05	3.6E-06	2.5E-07	2.7E-05	8.0E-06	5.0E-07	4.7E-05	1.4E-05	8.6E-07	2.5E-05	7.2E-06	4.5E-07
6.4E+05	5.9E+06	Cabin	C54	1.3E-05	3.3E-06	2.3E-07	2.8E-05	7.3E-06	4.8E-07	4.9E-05	1.3E-05	8.2E-07	2.5E-05	6.6E-06	4.3E-07
6.5E+05	5.9E+06	Cabin	C55	3.9E-06	9.9E-07	9.9E-08	7.1E-06	2.0E-06	1.9E-07	1.2E-05	3.3E-06	3.1E-07	6.5E-06	1.8E-06	1.7E-07
6.5E+05	5.9E+06	Cabin	C56	4.0E-06	1.1E-06	1.0E-07	7.8E-06	2.3E-06	1.9E-07	1.4E-05	3.9E-06	3.2E-07	7.0E-06	2.1E-06	1.7E-07
6.5E+05	5.9E+06	Cabin	C57	4.0E-06	1.1E-06	1.0E-07	8.0E-06	2.4E-06	1.9E-07	1.4E-05	4.0E-06	3.2E-07	7.1E-06	2.1E-06	1.8E-07
6.4E+05	5.9E+06	Cabin	C58	4.2E-06	1.0E-06	1.1E-07	8.5E-06	2.2E-06	2.0E-07	1.5E-05	3.7E-06	3.3E-07	7.6E-06	1.9E-06	1.8E-07
6.4E+05	5.9E+06	Cabin	C59	4.3E-06	9.6E-07	1.0E-07	8.1E-06	1.9E-06	2.0E-07	1.3E-05	3.1E-06	3.2E-07	7.3E-06	1.7E-06	1.8E-07
6.4E+05	5.9E+06	Cabin	C60	4.3E-06	9.8E-07	1.0E-07	8.4E-06	1.9E-06	1.9E-07	1.4E-05	3.2E-06	3.2E-07	7.5E-06	1.7E-06	1.7E-07
6.5E+05	5.9E+06	Cabin	C61	4.7E-06	1.0E-06	9.7E-08	8.7E-06	2.0E-06	1.8E-07	1.5E-05	3.3E-06	3.0E-07	7.9E-06	1.8E-06	1.7E-07
6.5E+05	5.9E+06	Cabin	C62	4.9E-06	1.1E-06	9.9E-08	9.6E-06	2.0E-06	1.9E-07	1.6E-05	3.4E-06	3.1E-07	8.6E-06	1.8E-06	1.7E-07
6.5E+05	5.9E+06	Cabin	C63	5.0E-06	1.2E-06	1.0E-07	1.0E-05	2.1E-06	1.9E-07	1.8E-05	3.4E-06	3.1E-07	9.2E-06	1.9E-06	1.7E-07
6.5E+05	5.9E+06	Cabin	C64	4.7E-06	1.0E-06	9.6E-08	8.9E-06	1.9E-06	1.8E-07	1.5E-05	3.3E-06	3.0E-07	8.0E-06	1.7E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C65	4.6E-06	1.0E-06	9.5E-08	8.6E-06	1.9E-06	1.8E-07	1.5E-05	3.3E-06	3.0E-07	7.8E-06	1.8E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C66	4.5E-06	9.9E-07	9.6E-08	8.4E-06	2.0E-06	1.8E-07	1.4E-05	3.4E-06	3.0E-07	7.6E-06	1.8E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C67	4.5E-06	9.9E-07	9.6E-08	8.3E-06	2.0E-06	1.8E-07	1.4E-05	3.4E-06	3.0E-07	7.6E-06	1.8E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C68	4.3E-06	9.8E-07	9.6E-08	8.1E-06	2.0E-06	1.8E-07	1.3E-05	3.3E-06	3.0E-07	7.3E-06	1.8E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C69	4.3E-06	9.9E-07	9.7E-08	8.3E-06	2.0E-06	1.8E-07	1.3E-05	3.3E-06	3.0E-07	7.5E-06	1.8E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C70	4.0E-06	9.6E-07	9.6E-08	8.0E-06	1.9E-06	1.8E-07	1.2E-05	3.1E-06	3.0E-07	7.2E-06	1.7E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C71	3.8E-06	9.1E-07	9.4E-08	7.4E-06	1.8E-06	1.8E-07	1.2E-05	2.9E-06	2.9E-07	6.7E-06	1.6E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C72	3.8E-06	9.0E-07	9.5E-08	7.2E-06	1.7E-06	1.8E-07	1.2E-05	2.9E-06	2.9E-07	6.5E-06	1.6E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C73	3.8E-06	9.8E-07	9.6E-08	6.9E-06	2.0E-06	1.8E-07	1.2E-05	3.4E-06	3.0E-07	6.3E-06	1.8E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C74	3.8E-06	1.3E-06	1.0E-07	8.2E-06	2.8E-06	1.9E-07	1.4E-05	4.7E-06	3.1E-07	7.4E-06	2.5E-06	1.7E-07
6.5E+05	5.9E+06	Cabin	C75	3.9E-06	1.5E-06	1.0E-07	8.5E-06	3.1E-06	1.9E-07	1.5E-05	5.3E-06	3.2E-07	7.6E-06	2.8E-06	1.8E-07
6.5E+05	5.9E+06	Cabin	C76	3.8E-06	1.6E-06	1.0E-07	7.6E-06	3.3E-06	1.9E-07	1.3E-05	5.7E-06	3.2E-07	6.8E-06	3.0E-06	1.7E-07
6.5E+05	5.9E+06	Cabin	C77	3.6E-06	1.6E-06	9.7E-08	6.9E-06	3.2E-06	1.8E-07	1.2E-05	5.4E-06	3.0E-07	6.2E-06	2.9E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C78	3.5E-06	1.5E-06	9.5E-08	6.7E-06	3.0E-06	1.7E-07	1.1E-05	5.0E-06	2.9E-07	6.0E-06	2.7E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C79	3.6E-06	1.5E-06	9.3E-08	6.7E-06	2.8E-06	1.7E-07	1.1E-05	4.7E-06	2.8E-07	6.1E-06	2.6E-06	1.6E-07
6.5E+05	5.9E+06	Cabin	C80	3.4E-06	1.5E-06	9.1E-08	6.4E-06	2.8E-06	1.7E-07	1.1E-05	4.7E-06	2.8E-07	5.8E-06	2.6E-06	1.5E-07
6.5E+05	5.9E+06	Cabin	C81	3.4E-06	1.5E-06	9.1E-08	6.4E-06	2.8E-06	1.7E-07	1.1E-05	4.7E-06	2.8E-07	5.8E-06	2.6E-06	1.5E-07
6.5E+05	5.9E+06	Cabin	C82	3.8E-06	1.0E-06	7.2E-08	6.8E-06	1.9E-06	1.3E-07	1.1E-05	3.1E-06	2.2E-07	6.2E-06	1.7E-06	1.2E-07
6.5E+05	5.9E+06	Cabin	C83	3.4E-06	1.0E-06	6.9E-08	6.3E-06	2.0E-06	1.3E-07	1.0E-05	3.3E-06	2.1E-07	5.7E-06	1.8E-06	1.2E-07
6.5E+05	5.9E+06	Cabin	C84	2.6E-06	5.9E-07	5.6E-08	4.6E-06	1.1E-06	1.0E-07	7.4E-06	1.9E-06	1.7E-07	4.2E-06	1.0E-06	9.3E-08
6.5E+05	5.9E+06	Cabin	C85	3.0E-06	6.0E-07	5.6E-08	5.2E-06	1.1E-06	1.0E-07	8.5E-06	1.8E-06	1.7E-07	4.8E-06	9.6E-07	9.3E-08
6.5E+05	5.9E+06	Cabin	C86	3.1E-06	7.7E-07	5.5E-08	5.6E-06	1.4E-06	9.9E-08	9.2E-06	2.3E-06	1.6E-07	5.1E-06	1.3E-06	9.0E-08
6.5E+05	5.9E+06	Cabin	C87	3.3E-06	8.4E-07	5.7E-08	6.1E-06	1.6E-06	1.0E-07	1.0E-05	2.7E-06	1.7E-07	5.6E-06	1.5E-06	9.6E-08

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.5E+05	5.9E+06	Cabin	C88	2.4E-06	8.5E-07	5.2E-08	4.3E-06	1.6E-06	9.6E-08	7.1E-06	2.7E-06	1.6E-07	3.9E-06	1.5E-06	8.7E-08
6.5E+05	5.9E+06	Cabin	C89	2.4E-06	8.9E-07	5.4E-08	4.3E-06	1.7E-06	1.0E-07	7.1E-06	2.8E-06	1.7E-07	3.9E-06	1.5E-06	9.2E-08
6.6E+05	5.9E+06	Cabin	C90	1.1E-06	2.7E-07	1.7E-08	1.9E-06	4.8E-07	3.0E-08	3.0E-06	7.8E-07	4.8E-08	1.7E-06	4.4E-07	2.7E-08
6.5E+05	5.9E+06	Cabin	C91	1.4E-06	3.4E-07	2.1E-08	2.4E-06	6.0E-07	3.7E-08	4.0E-06	9.8E-07	5.9E-08	2.3E-06	5.5E-07	3.3E-08
6.5E+05	5.9E+06	Cabin	C92	1.5E-06	3.7E-07	2.5E-08	2.6E-06	6.5E-07	4.5E-08	4.2E-06	1.1E-06	7.3E-08	2.4E-06	5.9E-07	4.1E-08
6.5E+05	5.9E+06	Cabin	C93	1.1E-06	2.8E-07	1.7E-08	1.8E-06	5.0E-07	3.0E-08	3.0E-06	8.1E-07	4.9E-08	1.7E-06	4.5E-07	2.8E-08
6.5E+05	5.9E+06	Cabin	C94	1.3E-06	3.4E-07	2.2E-08	2.3E-06	6.1E-07	3.8E-08	3.7E-06	1.0E-06	6.2E-08	2.1E-06	5.5E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C95	1.2E-06	3.3E-07	2.1E-08	2.2E-06	5.9E-07	3.7E-08	3.6E-06	9.8E-07	6.1E-08	2.0E-06	5.4E-07	3.4E-08
6.5E+05	5.9E+06	Cabin	C96	1.4E-06	3.5E-07	2.3E-08	2.3E-06	6.1E-07	4.0E-08	3.8E-06	9.9E-07	6.6E-08	2.1E-06	5.6E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C97	1.3E-06	3.4E-07	2.3E-08	2.3E-06	6.0E-07	4.0E-08	3.8E-06	9.9E-07	6.5E-08	2.1E-06	5.5E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C98	1.3E-06	3.3E-07	2.2E-08	2.2E-06	5.9E-07	3.8E-08	3.6E-06	9.7E-07	6.2E-08	2.0E-06	5.4E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C99	1.3E-06	3.4E-07	2.2E-08	2.2E-06	5.9E-07	3.8E-08	3.6E-06	9.7E-07	6.2E-08	2.0E-06	5.4E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C100	1.3E-06	3.4E-07	2.2E-08	2.2E-06	5.9E-07	3.9E-08	3.6E-06	9.7E-07	6.3E-08	2.1E-06	5.4E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C101	1.3E-06	3.3E-07	2.2E-08	2.2E-06	5.9E-07	3.9E-08	3.6E-06	9.5E-07	6.3E-08	2.0E-06	5.4E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C102	1.3E-06	3.4E-07	2.2E-08	2.3E-06	6.0E-07	3.9E-08	3.7E-06	9.8E-07	6.4E-08	2.1E-06	5.5E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C103	1.3E-06	3.4E-07	2.2E-08	2.3E-06	6.0E-07	4.0E-08	3.7E-06	9.7E-07	6.4E-08	2.1E-06	5.5E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C104	1.3E-06	3.4E-07	2.2E-08	2.3E-06	6.0E-07	3.9E-08	3.7E-06	9.7E-07	6.4E-08	2.1E-06	5.5E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C105	1.3E-06	3.4E-07	2.2E-08	2.3E-06	5.9E-07	3.9E-08	3.7E-06	9.7E-07	6.4E-08	2.1E-06	5.4E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C106	1.3E-06	3.4E-07	2.3E-08	2.3E-06	6.0E-07	4.0E-08	3.7E-06	9.7E-07	6.5E-08	2.1E-06	5.5E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C107	1.3E-06	3.4E-07	2.2E-08	2.3E-06	5.9E-07	3.9E-08	3.7E-06	9.7E-07	6.4E-08	2.1E-06	5.4E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C108	1.3E-06	3.4E-07	2.2E-08	2.2E-06	5.9E-07	3.9E-08	3.6E-06	9.6E-07	6.4E-08	2.1E-06	5.4E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C109	1.3E-06	3.4E-07	2.2E-08	2.3E-06	5.9E-07	3.9E-08	3.6E-06	9.6E-07	6.4E-08	2.1E-06	5.4E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C110	1.4E-06	3.4E-07	2.3E-08	2.3E-06	5.9E-07	4.0E-08	3.7E-06	9.6E-07	6.5E-08	2.1E-06	5.4E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C111	1.4E-06	3.4E-07	2.3E-08	2.3E-06	5.9E-07	4.0E-08	3.7E-06	9.6E-07	6.5E-08	2.1E-06	5.4E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C112	1.4E-06	3.4E-07	2.3E-08	2.3E-06	5.9E-07	4.0E-08	3.7E-06	9.6E-07	6.5E-08	2.1E-06	5.4E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C113	1.4E-06	3.3E-07	2.2E-08	2.3E-06	5.8E-07	3.9E-08	3.7E-06	9.5E-07	6.4E-08	2.1E-06	5.4E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C114	1.4E-06	3.3E-07	2.2E-08	2.3E-06	5.8E-07	3.9E-08	3.7E-06	9.4E-07	6.4E-08	2.1E-06	5.3E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C115	1.4E-06	3.3E-07	2.3E-08	2.3E-06	5.8E-07	4.0E-08	3.7E-06	9.5E-07	6.5E-08	2.1E-06	5.3E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C116	1.4E-06	3.3E-07	2.3E-08	2.3E-06	5.8E-07	4.0E-08	3.7E-06	9.5E-07	6.5E-08	2.1E-06	5.3E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C117	1.4E-06	3.3E-07	2.2E-08	2.3E-06	5.7E-07	3.9E-08	3.7E-06	9.3E-07	6.4E-08	2.1E-06	5.2E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C118	1.4E-06	3.2E-07	2.2E-08	2.3E-06	5.6E-07	3.9E-08	3.7E-06	9.1E-07	6.3E-08	2.1E-06	5.1E-07	3.6E-08
6.4E+05	5.9E+06	Cabin	C119	2.0E-06	4.9E-07	3.5E-08	3.4E-06	8.7E-07	6.3E-08	5.4E-06	1.4E-06	1.0E-07	3.1E-06	8.0E-07	5.7E-08
6.5E+05	5.9E+06	Cabin	C120	1.5E-06	3.3E-07	2.4E-08	2.5E-06	5.6E-07	4.2E-08	4.1E-06	9.0E-07	6.8E-08	2.3E-06	5.1E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C121	1.4E-06	3.4E-07	2.2E-08	2.4E-06	5.8E-07	4.0E-08	3.8E-06	9.5E-07	6.5E-08	2.2E-06	5.4E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C122	1.4E-06	3.3E-07	2.2E-08	2.3E-06	5.6E-07	3.8E-08	3.7E-06	9.1E-07	6.2E-08	2.1E-06	5.1E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C123	1.3E-06	3.1E-07	2.0E-08	2.2E-06	5.2E-07	3.5E-08	3.5E-06	8.4E-07	5.8E-08	2.0E-06	4.8E-07	3.2E-08
6.5E+05	5.9E+06	Cabin	C124	1.1E-06	2.7E-07	1.8E-08	1.9E-06	4.6E-07	3.1E-08	3.0E-06	7.4E-07	5.0E-08	1.7E-06	4.2E-07	2.8E-08
6.5E+05	5.9E+06	Cabin	C125	1.2E-06	2.8E-07	1.9E-08	2.0E-06	4.8E-07	3.3E-08	3.1E-06	7.8E-07	5.3E-08	1.8E-06	4.4E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C126	1.1E-06	2.7E-07	1.8E-08	1.9E-06	4.7E-07	3.2E-08	3.0E-06	7.6E-07	5.2E-08	1.7E-06	4.3E-07	2.9E-08
6.5E+05	5.9E+06	Cabin	C127	1.1E-06	2.6E-07	1.8E-08	1.8E-06	4.5E-07	3.1E-08	2.9E-06	7.3E-07	5.1E-08	1.7E-06	4.1E-07	2.9E-08
6.5E+05	5.9E+06	Cabin	C128	1.1E-06	2.7E-07	1.9E-08	1.9E-06	4.7E-07	3.3E-08	3.0E-06	7.6E-07	5.3E-08	1.7E-06	4.3E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C129	1.3E-06	3.0E-07	2.1E-08	2.1E-06	5.3E-07	3.7E-08	3.4E-06	8.7E-07	6.1E-08	2.0E-06	4.9E-07	3.4E-08
6.5E+05	5.9E+06	Cabin	C130	1.3E-06	3.1E-07	2.1E-08	2.1E-06	5.4E-07	3.8E-08	3.4E-06	8.7E-07	6.2E-08	2.0E-06	4.9E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C131	1.3E-06	3.1E-07	2.1E-08	2.1E-06	5.4E-07	3.8E-08	3.4E-06	8.7E-07	6.2E-08	2.0E-06	4.9E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C132	1.2E-06	2.8E-07	2.1E-08	2.1E-06	4.9E-07	3.6E-08	3.3E-06	8.0E-07	5.9E-08	1.9E-06	4.5E-07	3.3E-08
6.5E+05	5.9E+06	Cabin	C133	1.3E-06	2.8E-07	2.1E-08	2.1E-06	4.9E-07	3.7E-08	3.3E-06	8.0E-07	6.0E-08	1.9E-06	4.5E-07	3.4E-08
6.5E+05	5.9E+06	Cabin	C134	1.3E-06	2.8E-07	2.2E-08	2.1E-06	5.0E-07	3.8E-08	3.4E-06	8.2E-07	6.2E-08	1.9E-06	4.6E-07	3.5E-08
6.5E+05	5.9E+06	Cabin	C135	1.3E-06	3.1E-07	2.2E-08	2.2E-06	5.5E-07	3.9E-08	3.5E-06	8.9E-07	6.3E-08	2.0E-06	5.0E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C136	1.3E-06	3.1E-07	2.2E-08	2.2E-06	5.5E-07	4.0E-08	3.5E-06	9.0E-07	6.5E-08	2.0E-06	5.1E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C137	1.4E-06	3.3E-07	2.5E-08	2.4E-06	5.9E-07	4.4E-08	3.8E-06	9.7E-07	7.1E-08	2.2E-06	5.4E-07	4.0E-08
6.5E+05	5.9E+06	Cabin	C138	1.4E-06	3.3E-07	2.6E-08	2.3E-06	5.8E-07	4.5E-08	3.8E-06	9.6E-07	7.4E-08	2.2E-06	5.3E-07	4.2E-08
6.5E+05	5.9E+06	Cabin	C139	1.3E-06	3.1E-07	2.3E-08	2.2E-06	5.5E-07	4.0E-08	3.5E-06	9.0E-07	6.6E-08	2.0E-06	5.1E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C140	1.3E-06	3.2E-07	2.3E-08	2.2E-06	5.6E-07	4.0E-08	3.6E-06	9.1E-07	6.6E-08	2.0E-06	5.1E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C141	1.3E-06	3.2E-07	2.3E-08	2.2E-06	5.6E-07	4.1E-08	3.6E-06	9.1E-07	6.6E-08	2.1E-06	5.1E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C142	1.3E-06	3.2E-07	2.3E-08	2.2E-06	5.6E-07	4.1E-08	3.6E-06	9.1E-07	6.7E-08	2.1E-06	5.1E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C143	1.3E-06	3.2E-07	2.3E-08	2.2E-06	5.6E-07	4.1E-08	3.6E-06	9.1E-07	6.7E-08	2.1E-06	5.1E-07	3.7E-08

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.5E+05	5.9E+06	Cabin	C144	1.3E-06	3.2E-07	2.3E-08	2.2E-06	5.6E-07	4.1E-08	3.6E-06	9.1E-07	6.7E-08	2.1E-06	5.1E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C145	1.3E-06	3.2E-07	2.3E-08	2.2E-06	5.6E-07	4.1E-08	3.6E-06	9.1E-07	6.7E-08	2.1E-06	5.1E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C146	1.3E-06	3.2E-07	2.3E-08	2.2E-06	5.6E-07	4.1E-08	3.6E-06	9.1E-07	6.7E-08	2.1E-06	5.1E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C147	1.3E-06	3.1E-07	2.3E-08	2.2E-06	5.6E-07	4.1E-08	3.6E-06	9.1E-07	6.8E-08	2.1E-06	5.1E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C148	1.3E-06	3.2E-07	2.3E-08	2.2E-06	5.6E-07	4.2E-08	3.6E-06	9.1E-07	6.8E-08	2.1E-06	5.1E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C149	1.3E-06	2.8E-07	2.2E-08	2.2E-06	5.0E-07	3.9E-08	3.5E-06	8.2E-07	6.3E-08	2.0E-06	4.6E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C150	1.4E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.7E-07	6.7E-08	2.0E-06	4.9E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C151	1.4E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.6E-06	8.7E-07	6.7E-08	2.1E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C152	1.4E-06	3.0E-07	2.3E-08	2.2E-06	5.4E-07	4.1E-08	3.6E-06	8.8E-07	6.7E-08	2.1E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C153	1.4E-06	3.1E-07	2.3E-08	2.3E-06	5.4E-07	4.2E-08	3.6E-06	8.9E-07	6.8E-08	2.1E-06	5.0E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C154	1.3E-06	2.9E-07	2.3E-08	2.2E-06	5.1E-07	4.0E-08	3.5E-06	8.4E-07	6.5E-08	2.0E-06	4.7E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C155	1.3E-06	2.9E-07	2.3E-08	2.2E-06	5.1E-07	4.0E-08	3.5E-06	8.4E-07	6.6E-08	2.0E-06	4.7E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C156	1.3E-06	2.9E-07	2.2E-08	2.2E-06	5.1E-07	4.0E-08	3.5E-06	8.4E-07	6.5E-08	2.0E-06	4.7E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C157	1.3E-06	2.9E-07	2.2E-08	2.2E-06	5.1E-07	3.9E-08	3.5E-06	8.3E-07	6.4E-08	2.0E-06	4.6E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C158	1.3E-06	2.8E-07	2.2E-08	2.1E-06	5.0E-07	3.9E-08	3.4E-06	8.2E-07	6.3E-08	2.0E-06	4.6E-07	3.6E-08
6.5E+05	5.9E+06	Cabin	C159	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.4E-07	4.2E-08	3.6E-06	8.8E-07	6.8E-08	2.1E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C160	1.4E-06	3.0E-07	2.4E-08	2.2E-06	5.4E-07	4.2E-08	3.6E-06	8.7E-07	6.8E-08	2.0E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C161	1.4E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.2E-08	3.5E-06	8.7E-07	6.8E-08	2.0E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C162	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.6E-07	6.8E-08	2.0E-06	4.8E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C163	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.6E-07	6.7E-08	2.0E-06	4.8E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C164	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.7E-07	6.7E-08	2.0E-06	4.8E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C165	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.6E-07	6.7E-08	2.0E-06	4.8E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C166	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.7E-07	6.6E-08	2.0E-06	4.9E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C167	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.7E-07	6.7E-08	2.0E-06	4.9E-07	3.7E-08
6.5E+05	5.9E+06	Cabin	C168	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.7E-07	6.7E-08	2.0E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C169	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.7E-07	6.7E-08	2.0E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C170	1.3E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.1E-08	3.5E-06	8.7E-07	6.8E-08	2.0E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C171	1.4E-06	3.0E-07	2.3E-08	2.2E-06	5.3E-07	4.2E-08	3.5E-06	8.7E-07	6.8E-08	2.0E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C172	1.4E-06	3.0E-07	2.4E-08	2.2E-06	5.3E-07	4.2E-08	3.5E-06	8.7E-07	6.8E-08	2.0E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C173	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.4E-07	4.2E-08	3.6E-06	8.8E-07	6.9E-08	2.1E-06	4.9E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C174	1.4E-06	3.0E-07	2.4E-08	2.2E-06	5.4E-07	4.2E-08	3.5E-06	8.8E-07	6.9E-08	2.0E-06	4.9E-07	3.8E-08
6.5E+05	5.9E+06	Cabin	C175	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.4E-07	4.2E-08	3.6E-06	8.8E-07	6.9E-08	2.1E-06	5.0E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C176	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.5E-07	4.3E-08	3.6E-06	8.9E-07	7.0E-08	2.1E-06	5.0E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C177	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.4E-07	4.3E-08	3.6E-06	8.9E-07	7.0E-08	2.1E-06	5.0E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C178	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.5E-07	4.3E-08	3.6E-06	8.9E-07	7.0E-08	2.1E-06	5.0E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C179	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.5E-07	4.3E-08	3.6E-06	9.0E-07	7.0E-08	2.1E-06	5.0E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C180	1.4E-06	3.2E-07	2.5E-08	2.3E-06	5.6E-07	4.4E-08	3.6E-06	9.2E-07	7.2E-08	2.1E-06	5.1E-07	4.0E-08
6.5E+05	5.9E+06	Cabin	C181	1.4E-06	3.2E-07	2.5E-08	2.3E-06	5.6E-07	4.4E-08	3.6E-06	9.2E-07	7.1E-08	2.1E-06	5.2E-07	4.0E-08
6.5E+05	5.9E+06	Cabin	C182	1.4E-06	3.2E-07	2.5E-08	2.3E-06	5.7E-07	4.4E-08	3.7E-06	9.3E-07	7.1E-08	2.1E-06	5.2E-07	4.0E-08
6.5E+05	5.9E+06	Cabin	C183	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.4E-08	3.7E-06	9.3E-07	7.1E-08	2.1E-06	5.2E-07	4.0E-08
6.5E+05	5.9E+06	Cabin	C184	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.7E-06	9.3E-07	7.1E-08	2.1E-06	5.2E-07	4.0E-08
6.5E+05	5.9E+06	Cabin	C185	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.6E-06	9.3E-07	7.0E-08	2.1E-06	5.2E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C186	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.7E-06	9.4E-07	7.1E-08	2.1E-06	5.3E-07	4.0E-08
6.5E+05	5.9E+06	Cabin	C187	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.8E-07	4.3E-08	3.7E-06	9.4E-07	7.1E-08	2.1E-06	5.3E-07	4.0E-08
6.5E+05	5.9E+06	Cabin	C188	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.7E-06	9.3E-07	7.0E-08	2.1E-06	5.2E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C189	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.7E-06	9.4E-07	7.0E-08	2.1E-06	5.2E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C190	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.7E-06	9.4E-07	7.0E-08	2.1E-06	5.2E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C191	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.7E-06	9.3E-07	7.0E-08	2.1E-06	5.2E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C192	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.6E-06	9.3E-07	7.0E-08	2.1E-06	5.2E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C193	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.7E-07	4.3E-08	3.6E-06	9.2E-07	7.0E-08	2.1E-06	5.2E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C194	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.6E-07	4.2E-08	3.6E-06	9.2E-07	6.9E-08	2.1E-06	5.2E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C195	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.6E-07	4.3E-08	3.6E-06	9.2E-07	7.0E-08	2.1E-06	5.1E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C196	1.4E-06	3.2E-07	2.4E-08	2.3E-06	5.6E-07	4.3E-08	3.6E-06	9.2E-07	7.0E-08	2.1E-06	5.1E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C197	1.3E-06	3.1E-07	2.4E-08	2.2E-06	5.6E-07	4.2E-08	3.6E-06	9.1E-07	6.9E-08	2.1E-06	5.1E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C198	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.6E-07	4.3E-08	3.6E-06	9.1E-07	7.0E-08	2.1E-06	5.1E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C199	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.6E-07	4.3E-08	3.6E-06	9.1E-07	7.0E-08	2.1E-06	5.1E-07	3.9E-08

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.5E+05	5.9E+06	Cabin	C200	1.4E-06	3.1E-07	2.4E-08	2.2E-06	5.6E-07	4.3E-08	3.6E-06	9.1E-07	7.0E-08	2.1E-06	5.1E-07	3.9E-08
6.5E+05	5.9E+06	Cabin	C201	1.2E-06	2.7E-07	1.8E-08	1.9E-06	4.9E-07	3.2E-08	3.1E-06	8.0E-07	5.2E-08	1.8E-06	4.4E-07	2.9E-08
6.5E+05	5.9E+06	Cabin	C202	1.2E-06	2.7E-07	1.9E-08	2.0E-06	4.9E-07	3.2E-08	3.2E-06	8.1E-07	5.3E-08	1.8E-06	4.5E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C203	1.2E-06	2.8E-07	1.9E-08	2.0E-06	5.0E-07	3.3E-08	3.2E-06	8.2E-07	5.4E-08	1.8E-06	4.5E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C204	1.2E-06	2.8E-07	1.9E-08	2.0E-06	4.9E-07	3.3E-08	3.2E-06	8.1E-07	5.3E-08	1.8E-06	4.5E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C205	1.2E-06	2.8E-07	1.9E-08	2.0E-06	4.9E-07	3.3E-08	3.2E-06	8.1E-07	5.3E-08	1.8E-06	4.5E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C206	1.2E-06	2.7E-07	1.9E-08	2.0E-06	4.7E-07	3.2E-08	3.2E-06	7.7E-07	5.3E-08	1.8E-06	4.3E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C207	1.2E-06	2.7E-07	1.9E-08	2.0E-06	4.8E-07	3.3E-08	3.2E-06	7.8E-07	5.3E-08	1.8E-06	4.4E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C208	1.2E-06	2.7E-07	1.8E-08	2.0E-06	4.7E-07	3.2E-08	3.2E-06	7.7E-07	5.2E-08	1.8E-06	4.3E-07	2.9E-08
6.5E+05	5.9E+06	Cabin	C209	1.2E-06	2.7E-07	1.9E-08	2.0E-06	4.8E-07	3.2E-08	3.2E-06	7.9E-07	5.3E-08	1.8E-06	4.4E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C210	1.2E-06	2.7E-07	1.9E-08	2.0E-06	4.8E-07	3.2E-08	3.2E-06	7.9E-07	5.3E-08	1.8E-06	4.4E-07	3.0E-08
6.5E+05	5.9E+06	Cabin	C211	1.2E-06	2.7E-07	1.8E-08	2.0E-06	4.7E-07	3.2E-08	3.1E-06	7.7E-07	5.1E-08	1.8E-06	4.3E-07	2.9E-08
6.5E+05	5.9E+06	Cabin	C212	1.2E-06	2.6E-07	1.8E-08	2.0E-06	4.7E-07	3.1E-08	3.1E-06	7.6E-07	5.1E-08	1.8E-06	4.3E-07	2.9E-08
6.5E+05	5.9E+06	Cabin	C213	1.1E-06	2.4E-07	1.7E-08	1.9E-06	4.1E-07	2.9E-08	3.0E-06	6.7E-07	4.8E-08	1.7E-06	3.8E-07	2.7E-08
6.5E+05	5.9E+06	Cabin	C214	1.1E-06	2.3E-07	1.7E-08	1.9E-06	3.9E-07	3.0E-08	3.0E-06	6.3E-07	4.9E-08	1.7E-06	3.6E-07	2.8E-08
6.5E+05	5.9E+06	Cabin	C215	1.1E-06	2.2E-07	1.7E-08	1.8E-06	3.7E-07	2.9E-08	2.9E-06	6.1E-07	4.7E-08	1.7E-06	3.4E-07	2.7E-08
6.5E+05	5.9E+06	Cabin	C216	1.1E-06	2.2E-07	1.6E-08	1.8E-06	3.7E-07	2.9E-08	2.9E-06	6.0E-07	4.7E-08	1.7E-06	3.4E-07	2.6E-08
6.5E+05	5.9E+06	Cabin	C217	1.1E-06	2.2E-07	1.6E-08	1.8E-06	3.7E-07	2.8E-08	2.9E-06	6.0E-07	4.6E-08	1.7E-06	3.4E-07	2.6E-08
6.5E+05	5.9E+06	Cabin	C218	1.1E-06	2.3E-07	1.6E-08	1.8E-06	3.9E-07	2.7E-08	2.9E-06	6.3E-07	4.5E-08	1.6E-06	3.6E-07	2.5E-08
6.5E+05	5.9E+06	Cabin	C219	1.1E-06	2.3E-07	1.6E-08	1.8E-06	4.0E-07	2.8E-08	2.9E-06	6.6E-07	4.5E-08	1.7E-06	3.7E-07	2.6E-08
6.5E+05	5.9E+06	Cabin	C220	1.1E-06	2.3E-07	1.6E-08	1.8E-06	4.1E-07	2.9E-08	2.9E-06	6.6E-07	4.6E-08	1.7E-06	3.7E-07	2.6E-08
6.5E+05	5.9E+06	Cabin	C221	1.1E-06	2.5E-07	1.7E-08	1.9E-06	4.5E-07	2.9E-08	3.0E-06	7.4E-07	4.8E-08	1.7E-06	4.1E-07	2.7E-08
6.5E+05	5.9E+06	Cabin	C222	1.1E-06	2.5E-07	1.7E-08	1.9E-06	4.5E-07	2.9E-08	3.0E-06	7.3E-07	4.8E-08	1.7E-06	4.1E-07	2.7E-08
6.5E+05	5.9E+06	Cabin	C223	1.1E-06	2.4E-07	1.6E-08	1.8E-06	4.3E-07	2.8E-08	2.9E-06	7.1E-07	4.6E-08	1.7E-06	4.0E-07	2.6E-08
6.5E+05	5.9E+06	Cabin	C224	1.1E-06	2.4E-07	1.6E-08	1.8E-06	4.3E-07	2.8E-08	2.9E-06	7.0E-07	4.5E-08	1.6E-06	3.9E-07	2.5E-08
6.5E+05	5.9E+06	Cabin	C225	1.0E-06	2.3E-07	1.5E-08	1.7E-06	4.2E-07	2.7E-08	2.7E-06	6.9E-07	4.3E-08	1.5E-06	3.9E-07	2.4E-08
6.5E+05	5.9E+06	Cabin	C226	9.5E-07	2.2E-07	1.5E-08	1.6E-06	4.0E-07	2.5E-08	2.5E-06	6.6E-07	4.1E-08	1.5E-06	3.7E-07	2.3E-08
6.5E+05	5.9E+06	Cabin	C227	9.6E-07	2.3E-07	1.5E-08	1.6E-06	4.1E-07	2.5E-08	2.6E-06	6.7E-07	4.1E-08	1.5E-06	3.7E-07	2.3E-08
6.5E+05	5.9E+06	Cabin	C228	9.7E-07	2.3E-07	1.5E-08	1.6E-06	4.1E-07	2.5E-08	2.6E-06	6.7E-07	4.1E-08	1.5E-06	3.7E-07	2.3E-08
6.5E+05	5.9E+06	Cabin	C229	9.8E-07	2.3E-07	1.4E-08	1.6E-06	4.1E-07	2.5E-08	2.6E-06	6.7E-07	4.1E-08	1.5E-06	3.7E-07	2.3E-08
6.5E+05	5.9E+06	Cabin	C230	9.7E-07	2.3E-07	1.4E-08	1.6E-06	4.0E-07	2.5E-08	2.6E-06	6.6E-07	4.0E-08	1.5E-06	3.7E-07	2.3E-08
6.5E+05	5.9E+06	Cabin	C231	9.7E-07	2.2E-07	1.4E-08	1.6E-06	3.9E-07	2.5E-08	2.6E-06	6.4E-07	4.0E-08	1.5E-06	3.6E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C232	9.2E-07	2.1E-07	1.3E-08	1.5E-06	3.8E-07	2.3E-08	2.4E-06	6.2E-07	3.8E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C233	9.0E-07	2.1E-07	1.3E-08	1.5E-06	3.7E-07	2.3E-08	2.4E-06	6.1E-07	3.7E-08	1.4E-06	3.4E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C234	9.0E-07	2.1E-07	1.3E-08	1.5E-06	3.8E-07	2.3E-08	2.4E-06	6.2E-07	3.7E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C235	9.1E-07	2.2E-07	1.3E-08	1.5E-06	3.8E-07	2.3E-08	2.4E-06	6.3E-07	3.8E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C236	9.1E-07	2.1E-07	1.3E-08	1.5E-06	3.8E-07	2.3E-08	2.4E-06	6.2E-07	3.7E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C237	9.0E-07	2.1E-07	1.3E-08	1.5E-06	3.8E-07	2.3E-08	2.4E-06	6.2E-07	3.7E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C238	9.2E-07	2.2E-07	1.3E-08	1.5E-06	3.9E-07	2.3E-08	2.4E-06	6.3E-07	3.8E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C239	9.1E-07	2.1E-07	1.3E-08	1.5E-06	3.8E-07	2.3E-08	2.4E-06	6.3E-07	3.8E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C240	9.2E-07	2.2E-07	1.4E-08	1.5E-06	3.9E-07	2.4E-08	2.4E-06	6.4E-07	3.8E-08	1.4E-06	3.5E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C241	9.1E-07	2.2E-07	1.4E-08	1.5E-06	3.9E-07	2.3E-08	2.4E-06	6.3E-07	3.8E-08	1.4E-06	3.5E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C242	9.1E-07	2.1E-07	1.3E-08	1.5E-06	3.8E-07	2.3E-08	2.4E-06	6.3E-07	3.8E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C243	9.0E-07	2.1E-07	1.3E-08	1.5E-06	3.8E-07	2.3E-08	2.4E-06	6.2E-07	3.8E-08	1.4E-06	3.5E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C244	9.1E-07	2.2E-07	1.4E-08	1.5E-06	3.9E-07	2.4E-08	2.4E-06	6.4E-07	3.8E-08	1.4E-06	3.6E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C245	9.1E-07	2.2E-07	1.4E-08	1.5E-06	3.9E-07	2.4E-08	2.4E-06	6.4E-07	3.9E-08	1.4E-06	3.6E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C246	9.1E-07	2.2E-07	1.4E-08	1.5E-06	3.9E-07	2.4E-08	2.4E-06	6.4E-07	3.9E-08	1.4E-06	3.6E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C247	9.0E-07	2.1E-07	1.4E-08	1.5E-06	3.8E-07	2.4E-08	2.4E-06	6.3E-07	3.8E-08	1.4E-06	3.5E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C248	8.9E-07	2.1E-07	1.4E-08	1.5E-06	3.8E-07	2.4E-08	2.4E-06	6.3E-07	3.8E-08	1.4E-06	3.5E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C249	8.9E-07	2.1E-07	1.4E-08	1.5E-06	3.8E-07	2.4E-08	2.4E-06	6.3E-07	3.9E-08	1.4E-06	3.5E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C250	9.1E-07	2.2E-07	1.4E-08	1.5E-06	3.9E-07	2.4E-08	2.4E-06	6.4E-07	3.9E-08	1.4E-06	3.5E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C251	9.0E-07	2.1E-07	1.4E-08	1.5E-06	3.9E-07	2.4E-08	2.4E-06	6.4E-07	3.9E-08	1.4E-06	3.5E-07	2.2E-08
6.6E+05	5.9E+06	Cabin	C252	9.1E-07	2.1E-07	1.4E-08	1.5E-06	3.6E-07	2.5E-08	2.5E-06	6.0E-07	4.1E-08	1.4E-06	3.3E-07	2.3E-08
6.5E+05	5.9E+06	Cabin	C253	1.0E-06	2.1E-07	1.5E-08	1.7E-06	3.6E-07	2.5E-08	2.7E-06	5.7E-07	4.1E-08	1.6E-06	3.3E-07	2.3E-08
6.5E+05	5.9E+06	Cabin	C254	9.2E-07	1.9E-07	1.4E-08	1.5E-06	3.3E-07	2.4E-08	2.4E-06	5.4E-07	3.9E-08	1.4E-06	3.0E-07	2.2E-08
6.5E+05	5.9E+06	Cabin	C255	9.6E-07	1.9E-07	1.4E-08	1.6E-06	3.2E-07	2.4E-08	2.5E-06	5.2E-07	3.9E-08	1.5E-06	3.0E-07	2.2E-08

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.5E+05	5.9E+06	Cabin	C256	9.2E-07	1.9E-07	1.3E-08	1.5E-06	3.2E-07	2.3E-08	2.4E-06	5.1E-07	3.8E-08	1.4E-06	2.9E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C257	9.2E-07	1.9E-07	1.3E-08	1.5E-06	3.2E-07	2.3E-08	2.4E-06	5.1E-07	3.8E-08	1.4E-06	2.9E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C258	9.1E-07	1.8E-07	1.3E-08	1.5E-06	3.1E-07	2.3E-08	2.4E-06	5.0E-07	3.7E-08	1.4E-06	2.9E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C259	9.1E-07	1.8E-07	1.3E-08	1.5E-06	3.1E-07	2.3E-08	2.4E-06	5.0E-07	3.7E-08	1.4E-06	2.9E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C260	9.0E-07	1.8E-07	1.3E-08	1.5E-06	3.1E-07	2.3E-08	2.4E-06	5.0E-07	3.7E-08	1.4E-06	2.8E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C261	9.0E-07	1.8E-07	1.3E-08	1.5E-06	3.0E-07	2.3E-08	2.4E-06	4.9E-07	3.7E-08	1.4E-06	2.8E-07	2.1E-08
6.5E+05	5.9E+06	Cabin	C262	8.8E-07	1.8E-07	1.3E-08	1.5E-06	3.1E-07	2.2E-08	2.3E-06	5.0E-07	3.6E-08	1.3E-06	2.8E-07	2.0E-08
6.5E+05	5.9E+06	Cabin	C263	8.6E-07	1.8E-07	1.2E-08	1.4E-06	3.1E-07	2.2E-08	2.3E-06	5.0E-07	3.5E-08	1.3E-06	2.8E-07	2.0E-08
6.5E+05	5.9E+06	Cabin	C264	8.2E-07	1.7E-07	1.2E-08	1.4E-06	2.9E-07	2.1E-08	2.2E-06	4.6E-07	3.4E-08	1.3E-06	2.6E-07	1.9E-08
6.5E+05	5.9E+06	Cabin	C265	8.2E-07	1.6E-07	1.2E-08	1.3E-06	2.7E-07	2.1E-08	2.2E-06	4.5E-07	3.4E-08	1.2E-06	2.5E-07	1.9E-08
6.5E+05	5.9E+06	Cabin	C266	7.7E-07	1.5E-07	1.1E-08	1.3E-06	2.6E-07	2.0E-08	2.0E-06	4.3E-07	3.2E-08	1.2E-06	2.4E-07	1.8E-08
6.5E+05	5.9E+06	Cabin	C267	7.4E-07	1.6E-07	1.1E-08	1.2E-06	2.8E-07	2.0E-08	1.9E-06	4.5E-07	3.2E-08	1.1E-06	2.5E-07	1.8E-08
6.5E+05	5.9E+06	Cabin	C268	6.4E-07	1.4E-07	9.5E-09	1.0E-06	2.4E-07	1.7E-08	1.7E-06	4.0E-07	2.7E-08	9.7E-07	2.2E-07	1.5E-08
6.5E+05	5.9E+06	Cabin	C269	6.1E-07	1.4E-07	9.1E-09	1.0E-06	2.4E-07	1.6E-08	1.6E-06	3.9E-07	2.6E-08	9.2E-07	2.2E-07	1.5E-08
6.5E+05	5.9E+06	Cabin	C270	7.0E-07	1.3E-07	1.0E-08	1.2E-06	2.4E-07	1.8E-08	1.8E-06	3.9E-07	2.9E-08	1.1E-06	2.2E-07	1.6E-08
6.5E+05	5.9E+06	Cabin	C271	6.9E-07	1.4E-07	9.9E-09	1.1E-06	2.3E-07	1.7E-08	1.8E-06	3.7E-07	2.8E-08	1.0E-06	2.1E-07	1.6E-08
6.5E+05	5.9E+06	Cabin	C272	6.8E-07	1.4E-07	9.8E-09	1.1E-06	2.3E-07	1.7E-08	1.8E-06	3.7E-07	2.8E-08	1.0E-06	2.1E-07	1.6E-08
6.5E+05	5.9E+06	Cabin	C273	6.6E-07	1.3E-07	9.4E-09	1.1E-06	2.2E-07	1.6E-08	1.7E-06	3.5E-07	2.7E-08	1.0E-06	2.0E-07	1.5E-08
6.5E+05	5.9E+06	Cabin	C274	6.4E-07	1.3E-07	9.1E-09	1.1E-06	2.1E-07	1.6E-08	1.7E-06	3.5E-07	2.6E-08	9.7E-07	1.9E-07	1.5E-08
6.6E+05	5.9E+06	Cabin	C275	6.1E-07	1.3E-07	8.7E-09	1.0E-06	2.1E-07	1.5E-08	1.6E-06	3.4E-07	2.5E-08	9.3E-07	2.0E-07	1.4E-08
6.6E+05	5.9E+06	Cabin	C276	5.7E-07	1.3E-07	8.0E-09	9.5E-07	2.1E-07	1.4E-08	1.5E-06	3.4E-07	2.3E-08	8.8E-07	2.0E-07	1.3E-08
6.6E+05	5.9E+06	Cabin	C277	5.7E-07	1.2E-07	8.0E-09	9.5E-07	2.1E-07	1.4E-08	1.5E-06	3.3E-07	2.3E-08	8.7E-07	1.9E-07	1.3E-08
6.6E+05	5.9E+06	Cabin	C278	5.5E-07	1.1E-07	7.6E-09	9.1E-07	1.9E-07	1.3E-08	1.4E-06	3.0E-07	2.1E-08	8.4E-07	1.7E-07	1.2E-08
6.6E+05	5.9E+06	Cabin	C279	5.5E-07	1.1E-07	7.5E-09	9.1E-07	1.8E-07	1.3E-08	1.4E-06	2.9E-07	2.1E-08	8.4E-07	1.7E-07	1.2E-08
6.6E+05	5.9E+06	Cabin	C280	5.4E-07	1.0E-07	7.2E-09	8.9E-07	1.7E-07	1.3E-08	1.4E-06	2.8E-07	2.0E-08	8.2E-07	1.6E-07	1.2E-08
6.6E+05	5.9E+06	Cabin	C281	5.3E-07	9.2E-08	6.5E-09	8.6E-07	1.6E-07	1.1E-08	1.4E-06	2.6E-07	1.9E-08	7.9E-07	1.5E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C282	5.2E-07	9.0E-08	6.4E-09	8.5E-07	1.6E-07	1.1E-08	1.4E-06	2.6E-07	1.8E-08	7.9E-07	1.5E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C283	5.2E-07	9.0E-08	6.4E-09	8.5E-07	1.6E-07	1.1E-08	1.4E-06	2.6E-07	1.8E-08	7.9E-07	1.5E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C284	5.2E-07	9.0E-08	6.3E-09	8.5E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.8E-08	7.8E-07	1.5E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C285	5.2E-07	8.9E-08	6.3E-09	8.5E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.8E-08	7.8E-07	1.4E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C286	5.2E-07	9.0E-08	6.2E-09	8.5E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.8E-08	7.8E-07	1.4E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C287	5.2E-07	9.0E-08	6.2E-09	8.5E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.8E-08	7.8E-07	1.5E-07	9.9E-09
6.6E+05	5.9E+06	Cabin	C288	5.2E-07	8.9E-08	6.1E-09	8.4E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.7E-08	7.8E-07	1.4E-07	9.8E-09
6.6E+05	5.9E+06	Cabin	C289	5.1E-07	8.9E-08	6.0E-09	8.4E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.7E-08	7.7E-07	1.4E-07	9.7E-09
6.6E+05	5.9E+06	Cabin	C290	5.1E-07	8.9E-08	6.0E-09	8.4E-07	1.6E-07	1.0E-08	1.3E-06	2.6E-07	1.7E-08	7.7E-07	1.4E-07	9.6E-09
6.6E+05	5.9E+06	Cabin	C291	5.1E-07	8.8E-08	5.9E-09	8.3E-07	1.6E-07	1.0E-08	1.3E-06	2.5E-07	1.7E-08	7.7E-07	1.4E-07	9.5E-09
6.6E+05	5.9E+06	Cabin	C292	5.1E-07	8.8E-08	5.9E-09	8.3E-07	1.6E-07	1.0E-08	1.3E-06	2.5E-07	1.7E-08	7.7E-07	1.4E-07	9.4E-09
6.6E+05	5.9E+06	Cabin	C293	5.0E-07	8.4E-08	5.6E-09	8.1E-07	1.5E-07	9.7E-09	1.3E-06	2.4E-07	1.6E-08	7.5E-07	1.4E-07	8.9E-09
6.6E+05	5.9E+06	Cabin	C294	4.9E-07	8.2E-08	5.5E-09	8.0E-07	1.5E-07	9.5E-09	1.3E-06	2.4E-07	1.5E-08	7.4E-07	1.3E-07	8.7E-09
6.6E+05	5.9E+06	Cabin	C295	4.9E-07	8.2E-08	5.5E-09	8.0E-07	1.4E-07	9.5E-09	1.3E-06	2.4E-07	1.5E-08	7.4E-07	1.3E-07	8.7E-09
6.6E+05	5.9E+06	Cabin	C296	4.9E-07	8.2E-08	5.5E-09	8.0E-07	1.4E-07	9.6E-09	1.3E-06	2.4E-07	1.6E-08	7.4E-07	1.3E-07	8.8E-09
6.6E+05	5.9E+06	Cabin	C297	5.0E-07	8.2E-08	5.6E-09	8.1E-07	1.5E-07	9.7E-09	1.3E-06	2.4E-07	1.6E-08	7.5E-07	1.3E-07	8.9E-09
6.6E+05	5.9E+06	Cabin	C298	5.0E-07	8.2E-08	5.6E-09	8.1E-07	1.5E-07	9.7E-09	1.3E-06	2.4E-07	1.6E-08	7.5E-07	1.3E-07	8.9E-09
6.6E+05	5.9E+06	Cabin	C299	5.1E-07	8.7E-08	6.1E-09	8.3E-07	1.5E-07	1.1E-08	1.3E-06	2.5E-07	1.7E-08	7.7E-07	1.4E-07	9.7E-09
6.6E+05	5.9E+06	Cabin	C300	5.2E-07	9.3E-08	6.3E-09	8.4E-07	1.6E-07	1.1E-08	1.3E-06	2.5E-07	1.8E-08	7.8E-07	1.4E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C301	5.2E-07	9.5E-08	6.4E-09	8.5E-07	1.6E-07	1.1E-08	1.3E-06	2.5E-07	1.8E-08	7.8E-07	1.5E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C302	5.2E-07	9.9E-08	6.6E-09	8.5E-07	1.7E-07	1.2E-08	1.4E-06	2.7E-07	1.9E-08	7.9E-07	1.5E-07	1.1E-08
6.6E+05	5.9E+06	Cabin	C303	5.2E-07	1.0E-07	6.6E-09	8.6E-07	1.7E-07	1.2E-08	1.4E-06	2.7E-07	1.9E-08	7.9E-07	1.6E-07	1.1E-08
6.6E+05	5.9E+06	Cabin	C304	5.2E-07	1.0E-07	6.7E-09	8.6E-07	1.7E-07	1.2E-08	1.4E-06	2.8E-07	1.9E-08	7.9E-07	1.6E-07	1.1E-08
6.6E+05	5.9E+06	Cabin	C305	5.2E-07	1.0E-07	6.7E-09	8.6E-07	1.7E-07	1.2E-08	1.4E-06	2.8E-07	1.9E-08	7.9E-07	1.6E-07	1.1E-08
6.6E+05	5.9E+06	Cabin	C306	5.2E-07	1.0E-07	6.6E-09	8.4E-07	1.8E-07	1.1E-08	1.3E-06	2.8E-07	1.9E-08	7.8E-07	1.6E-07	1.1E-08
6.6E+05	5.9E+06	Cabin	C307	5.1E-07	1.0E-07	6.6E-09	8.4E-07	1.8E-07	1.1E-08	1.3E-06	2.8E-07	1.9E-08	7.8E-07	1.6E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C308	5.1E-07	1.1E-07	6.6E-09	8.4E-07	1.8E-07	1.1E-08	1.3E-06	2.9E-07	1.9E-08	7.8E-07	1.6E-07	1.1E-08
6.6E+05	5.9E+06	Cabin	C309	5.1E-07	1.0E-07	6.5E-09	8.4E-07	1.8E-07	1.1E-08	1.3E-06	2.9E-07	1.8E-08	7.7E-07	1.6E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C310	5.0E-07	1.1E-07	6.4E-09	8.2E-07	1.8E-07	1.1E-08	1.3E-06	2.9E-07	1.8E-08	7.5E-07	1.7E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C311	4.9E-07	1.0E-07	6.2E-09	8.1E-07	1.8E-07	1.1E-08	1.3E-06	2.9E-07	1.7E-08	7.4E-07	1.6E-07	9.9E-09

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.6E+05	5.9E+06	Cabin	C312	5.0E-07	1.0E-07	6.3E-09	8.2E-07	1.7E-07	1.1E-08	1.3E-06	2.8E-07	1.8E-08	7.6E-07	1.6E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C313	5.0E-07	1.0E-07	6.3E-09	8.2E-07	1.7E-07	1.1E-08	1.3E-06	2.8E-07	1.8E-08	7.6E-07	1.6E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C314	5.0E-07	1.0E-07	6.3E-09	8.3E-07	1.7E-07	1.1E-08	1.3E-06	2.7E-07	1.8E-08	7.6E-07	1.6E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C315	5.0E-07	1.0E-07	6.3E-09	8.2E-07	1.7E-07	1.1E-08	1.3E-06	2.7E-07	1.8E-08	7.6E-07	1.6E-07	1.0E-08
6.6E+05	5.9E+06	Cabin	C316	5.0E-07	9.9E-08	6.2E-09	8.2E-07	1.7E-07	1.1E-08	1.3E-06	2.7E-07	1.8E-08	7.6E-07	1.5E-07	9.9E-09
6.6E+05	5.9E+06	Cabin	C317	5.0E-07	9.8E-08	6.2E-09	8.2E-07	1.7E-07	1.1E-08	1.3E-06	2.7E-07	1.7E-08	7.6E-07	1.5E-07	9.9E-09
6.6E+05	5.9E+06	Cabin	C318	5.0E-07	9.7E-08	6.2E-09	8.2E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.7E-08	7.6E-07	1.5E-07	9.8E-09
6.6E+05	5.9E+06	Cabin	C319	5.0E-07	9.6E-08	6.1E-09	8.2E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.7E-08	7.6E-07	1.5E-07	9.8E-09
6.6E+05	5.9E+06	Cabin	C320	5.0E-07	9.5E-08	6.1E-09	8.2E-07	1.6E-07	1.1E-08	1.3E-06	2.6E-07	1.7E-08	7.6E-07	1.5E-07	9.7E-09
6.6E+05	5.9E+06	Cabin	C321	4.9E-07	7.9E-08	5.4E-09	7.9E-07	1.4E-07	9.3E-09	1.3E-06	2.2E-07	1.5E-08	7.3E-07	1.3E-07	8.6E-09
6.6E+05	5.9E+06	Cabin	C322	4.8E-07	7.8E-08	5.3E-09	7.9E-07	1.4E-07	9.2E-09	1.2E-06	2.2E-07	1.5E-08	7.3E-07	1.3E-07	8.5E-09
6.6E+05	5.9E+06	Cabin	C323	4.8E-07	7.7E-08	5.3E-09	7.8E-07	1.4E-07	9.2E-09	1.2E-06	2.2E-07	1.5E-08	7.3E-07	1.2E-07	8.4E-09
6.5E+05	5.9E+06	Cabin	C324	5.8E-07	1.2E-07	8.0E-09	9.4E-07	2.1E-07	1.4E-08	1.5E-06	3.5E-07	2.3E-08	8.7E-07	2.0E-07	1.3E-08
6.6E+05	5.9E+06	Cabin	C325	4.4E-07	1.1E-07	6.0E-09	7.3E-07	1.9E-07	1.0E-08	1.2E-06	3.2E-07	1.7E-08	6.8E-07	1.8E-07	9.6E-09
6.6E+05	5.9E+06	Cabin	C326	3.8E-07	7.4E-08	4.1E-09	6.2E-07	1.3E-07	7.0E-09	9.8E-07	2.1E-07	1.1E-08	5.7E-07	1.2E-07	6.4E-09
6.6E+05	5.9E+06	Cabin	C327	3.8E-07	7.3E-08	4.0E-09	6.1E-07	1.3E-07	6.9E-09	9.7E-07	2.0E-07	1.1E-08	5.7E-07	1.2E-07	6.3E-09
6.6E+05	5.9E+06	Cabin	C328	3.7E-07	7.2E-08	3.9E-09	6.1E-07	1.2E-07	6.8E-09	9.7E-07	2.0E-07	1.1E-08	5.6E-07	1.1E-07	6.2E-09
6.6E+05	5.9E+06	Cabin	C329	3.5E-07	6.4E-08	3.5E-09	5.7E-07	1.1E-07	6.0E-09	9.1E-07	1.8E-07	9.8E-09	5.3E-07	1.0E-07	5.6E-09
6.6E+05	5.9E+06	Cabin	C330	3.5E-07	6.2E-08	3.4E-09	5.6E-07	1.1E-07	5.8E-09	8.9E-07	1.7E-07	9.5E-09	5.2E-07	9.8E-08	5.4E-09
6.6E+05	5.9E+06	Cabin	C331	3.2E-07	5.5E-08	3.1E-09	5.1E-07	9.6E-08	5.3E-09	8.1E-07	1.6E-07	8.5E-09	4.7E-07	8.8E-08	4.8E-09
6.6E+05	5.9E+06	Cabin	C332	3.1E-07	5.4E-08	3.0E-09	5.1E-07	9.5E-08	5.2E-09	8.0E-07	1.5E-07	8.4E-09	4.7E-07	8.7E-08	4.7E-09
6.5E+05	5.9E+06	Cabin	C333	3.6E-06	1.5E-06	8.8E-08	6.7E-06	2.7E-06	1.6E-07	1.1E-05	4.4E-06	2.6E-07	6.1E-06	2.5E-06	1.5E-07
6.5E+05	5.9E+06	Cabin	C334	3.2E-06	1.4E-06	8.4E-08	6.0E-06	2.6E-06	1.5E-07	9.9E-06	4.4E-06	2.5E-07	5.4E-06	2.4E-06	1.4E-07
6.4E+05	5.9E+06	Cabin	C335	5.8E-06	1.3E-06	1.3E-07	1.3E-05	2.5E-06	2.5E-07	2.2E-05	4.2E-06	4.1E-07	1.1E-05	2.2E-06	2.2E-07
6.4E+05	5.9E+06	Cabin	C336	1.1E-05	3.3E-06	2.6E-07	2.4E-05	6.5E-06	5.0E-07	4.2E-05	1.1E-05	8.4E-07	2.1E-05	5.8E-06	4.5E-07
6.4E+05	5.9E+06	Cabin	C337	5.3E-06	2.1E-06	1.3E-07	1.2E-05	3.6E-06	2.4E-07	2.0E-05	5.8E-06	3.9E-07	1.0E-05	3.3E-06	2.1E-07
6.4E+05	5.8E+06	Cabin	C338	4.2E-06	1.5E-06	1.1E-07	7.7E-06	2.9E-06	2.1E-07	1.3E-05	4.9E-06	3.4E-07	6.9E-06	2.6E-06	1.9E-07
6.4E+05	5.8E+06	Cabin	C339	2.5E-06	9.4E-07	4.8E-08	4.1E-06	1.5E-06	8.4E-08	6.4E-06	2.4E-06	1.4E-07	3.8E-06	1.4E-06	7.7E-08
6.4E+05	5.8E+06	Cabin	C340	1.8E-06	5.0E-07	3.1E-08	2.9E-06	8.1E-07	5.4E-08	4.7E-06	1.3E-06	8.7E-08	2.7E-06	7.4E-07	4.9E-08
6.3E+05	5.9E+06	Cabin	C341	8.7E-06	2.5E-06	1.6E-07	1.1E-05	3.9E-06	2.5E-07	1.8E-05	6.0E-06	3.9E-07	1.1E-05	3.6E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C342	7.4E-06	2.2E-06	1.4E-07	1.0E-05	3.7E-06	2.2E-07	1.6E-05	5.9E-06	3.5E-07	9.5E-06	3.4E-06	2.1E-07
6.3E+05	5.9E+06	Cabin	C343	5.9E-06	2.1E-06	1.2E-07	1.0E-05	3.9E-06	2.0E-07	1.7E-05	6.4E-06	3.2E-07	9.1E-06	3.5E-06	1.8E-07
6.3E+05	5.9E+06	Cabin	C344	5.7E-06	1.9E-06	1.2E-07	8.5E-06	2.7E-06	1.7E-07	1.3E-05	4.1E-06	2.5E-07	7.9E-06	2.5E-06	1.6E-07
6.3E+05	5.9E+06	Cabin	C345	5.5E-06	1.8E-06	1.1E-07	8.4E-06	2.7E-06	1.6E-07	1.3E-05	4.1E-06	2.5E-07	7.8E-06	2.5E-06	1.5E-07
6.3E+05	5.9E+06	Cabin	C346	4.7E-06	1.6E-06	9.8E-08	8.5E-06	3.4E-06	1.7E-07	1.4E-05	5.9E-06	2.7E-07	7.7E-06	3.1E-06	1.5E-07
6.3E+05	5.9E+06	Cabin	C347	5.9E-06	2.3E-06	1.3E-07	1.1E-05	4.2E-06	2.2E-07	1.9E-05	7.0E-06	3.6E-07	9.8E-06	3.9E-06	2.0E-07
6.3E+05	5.9E+06	Cabin	C348	5.9E-06	2.3E-06	1.3E-07	1.1E-05	4.2E-06	2.2E-07	2.0E-05	7.1E-06	3.6E-07	9.9E-06	3.9E-06	2.0E-07
6.4E+05	5.9E+06	Cabin	C349	5.6E-06	2.4E-06	1.3E-07	1.2E-05	4.6E-06	2.4E-07	2.0E-05	7.6E-06	4.0E-07	1.1E-05	4.1E-06	2.2E-07
6.4E+05	5.9E+06	Cabin	C350	5.6E-06	2.4E-06	1.3E-07	1.2E-05	4.5E-06	2.4E-07	2.1E-05	7.6E-06	4.0E-07	1.1E-05	4.1E-06	2.2E-07
6.4E+05	5.9E+06	Cabin	C351	5.6E-06	2.3E-06	1.3E-07	1.2E-05	4.5E-06	2.4E-07	2.1E-05	7.6E-06	4.0E-07	1.1E-05	4.1E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C352	5.8E-06	2.3E-06	1.3E-07	1.2E-05	4.4E-06	2.3E-07	2.1E-05	7.4E-06	3.8E-07	1.1E-05	4.0E-06	2.1E-07
6.4E+05	5.9E+06	Cabin	C353	5.6E-06	2.3E-06	1.3E-07	1.2E-05	4.5E-06	2.4E-07	2.1E-05	7.5E-06	4.0E-07	1.1E-05	4.1E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C354	5.6E-06	2.3E-06	1.3E-07	1.2E-05	4.4E-06	2.4E-07	2.1E-05	7.4E-06	3.9E-07	1.1E-05	4.0E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C355	5.6E-06	2.2E-06	1.2E-07	1.1E-05	4.2E-06	2.2E-07	2.0E-05	7.0E-06	3.6E-07	1.0E-05	3.8E-06	2.0E-07
6.4E+05	5.9E+06	Cabin	C356	6.1E-06	2.4E-06	1.4E-07	1.3E-05	4.8E-06	2.7E-07	2.2E-05	8.4E-06	4.4E-07	1.2E-05	4.3E-06	2.4E-07
6.4E+05	5.9E+06	Cabin	C357	6.4E-06	2.5E-06	1.5E-07	1.4E-05	5.2E-06	2.8E-07	2.3E-05	9.2E-06	4.8E-07	1.3E-05	4.7E-06	2.6E-07
6.3E+05	5.9E+06	Cabin	C358	5.6E-06	2.2E-06	1.3E-07	1.2E-05	4.3E-06	2.4E-07	2.1E-05	7.5E-06	4.0E-07	1.1E-05	3.9E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C359	5.6E-06	2.2E-06	1.3E-07	1.2E-05	4.2E-06	2.3E-07	2.1E-05	7.3E-06	3.9E-07	1.1E-05	3.8E-06	2.1E-07
6.3E+05	5.9E+06	Cabin	C360	5.6E-06	2.2E-06	1.3E-07	1.2E-05	4.4E-06	2.4E-07	2.1E-05	7.6E-06	4.0E-07	1.1E-05	3.9E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C361	5.7E-06	2.2E-06	1.3E-07	1.2E-05	4.4E-06	2.4E-07	2.1E-05	7.8E-06	4.0E-07	1.1E-05	4.0E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C362	5.6E-06	2.2E-06	1.3E-07	1.2E-05	4.5E-06	2.4E-07	2.1E-05	7.8E-06	4.0E-07	1.1E-05	4.0E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C363	5.6E-06	2.2E-06	1.3E-07	1.2E-05	4.5E-06	2.4E-07	2.0E-05	7.9E-06	4.0E-07	1.1E-05	4.1E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C364	5.6E-06	2.1E-06	1.3E-07	1.2E-05	4.6E-06	2.4E-07	2.0E-05	8.0E-06	4.0E-07	1.1E-05	4.1E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C365	5.6E-06	2.1E-06	1.3E-07	1.2E-05	4.6E-06	2.4E-07	1.9E-05	8.1E-06	4.0E-07	1.1E-05	4.1E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C366	5.5E-06	2.1E-06	1.3E-07	1.2E-05	4.5E-06	2.3E-07	1.9E-05	7.9E-06	3.9E-07	1.0E-05	4.1E-06	2.1E-07
6.3E+05	5.9E+06	Cabin	C367	5.5E-06	2.0E-06	1.3E-07	1.2E-05	4.6E-06	2.3E-07	1.9E-05	8.0E-06	3.8E-07	1.0E-05	4.1E-06	2.1E-07

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria (µg/m^3)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.3E+05	5.9E+06	Cabin	C368	5.5E-06	2.0E-06	1.3E-07	1.1E-05	4.6E-06	2.3E-07	1.9E-05	8.0E-06	3.8E-07	1.0E-05	4.1E-06	2.1E-07
6.3E+05	5.9E+06	Cabin	C369	5.8E-06	2.2E-06	1.3E-07	1.2E-05	4.9E-06	2.5E-07	2.1E-05	8.7E-06	4.2E-07	1.1E-05	4.4E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C370	5.9E-06	2.3E-06	1.4E-07	1.3E-05	5.3E-06	2.6E-07	2.2E-05	9.2E-06	4.4E-07	1.1E-05	4.7E-06	2.4E-07
6.3E+05	5.9E+06	Cabin	C371	5.7E-06	2.2E-06	1.3E-07	1.2E-05	4.8E-06	2.5E-07	2.1E-05	8.4E-06	4.2E-07	1.1E-05	4.3E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C372	5.8E-06	2.2E-06	1.4E-07	1.2E-05	4.9E-06	2.6E-07	2.1E-05	8.5E-06	4.3E-07	1.1E-05	4.4E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C373	5.8E-06	2.2E-06	1.4E-07	1.2E-05	4.8E-06	2.6E-07	2.2E-05	8.4E-06	4.3E-07	1.1E-05	4.3E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C374	5.8E-06	2.2E-06	1.4E-07	1.3E-05	4.8E-06	2.6E-07	2.2E-05	8.3E-06	4.3E-07	1.1E-05	4.3E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C375	5.8E-06	2.2E-06	1.4E-07	1.2E-05	4.7E-06	2.5E-07	2.2E-05	8.2E-06	4.2E-07	1.1E-05	4.2E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C376	5.8E-06	2.3E-06	1.3E-07	1.2E-05	4.5E-06	2.5E-07	2.1E-05	7.9E-06	4.1E-07	1.1E-05	4.1E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C377	5.8E-06	2.3E-06	1.4E-07	1.3E-05	4.6E-06	2.5E-07	2.2E-05	8.0E-06	4.2E-07	1.1E-05	4.1E-06	2.3E-07
6.3E+05	5.9E+06	Cabin	C378	5.8E-06	2.3E-06	1.3E-07	1.2E-05	4.5E-06	2.5E-07	2.2E-05	7.9E-06	4.2E-07	1.1E-05	4.0E-06	2.3E-07
6.4E+05	5.9E+06	Cabin	C379	6.0E-06	2.3E-06	1.4E-07	1.3E-05	4.7E-06	2.6E-07	2.2E-05	8.2E-06	4.3E-07	1.2E-05	4.2E-06	2.4E-07
6.4E+05	5.9E+06	Cabin	C380	6.5E-06	2.5E-06	1.5E-07	1.4E-05	5.4E-06	2.9E-07	2.4E-05	9.5E-06	4.8E-07	1.3E-05	4.8E-06	2.6E-07
6.4E+05	5.9E+06	Cabin	C381	6.4E-06	2.4E-06	1.5E-07	1.4E-05	5.3E-06	2.8E-07	2.3E-05	9.3E-06	4.7E-07	1.2E-05	4.7E-06	2.6E-07
6.4E+05	5.9E+06	Cabin	C382	6.3E-06	2.4E-06	1.4E-07	1.4E-05	5.2E-06	2.8E-07	2.2E-05	9.1E-06	4.6E-07	1.2E-05	4.7E-06	2.5E-07
6.4E+05	5.9E+06	Cabin	C383	6.2E-06	2.3E-06	1.4E-07	1.3E-05	5.2E-06	2.7E-07	2.2E-05	9.0E-06	4.6E-07	1.2E-05	4.6E-06	2.5E-07
6.4E+05	5.9E+06	Cabin	C384	6.1E-06	2.3E-06	1.4E-07	1.3E-05	5.1E-06	2.7E-07	2.2E-05	9.0E-06	4.5E-07	1.2E-05	4.6E-06	2.5E-07
6.3E+05	5.9E+06	Cabin	C385	6.1E-06	2.3E-06	1.4E-07	1.3E-05	5.1E-06	2.7E-07	2.2E-05	8.9E-06	4.5E-07	1.2E-05	4.6E-06	2.4E-07
6.3E+05	5.9E+06	Cabin	C386	6.1E-06	2.3E-06	1.4E-07	1.3E-05	5.2E-06	2.7E-07	2.2E-05	9.1E-06	4.5E-07	1.2E-05	4.6E-06	2.4E-07
6.3E+05	5.9E+06	Cabin	C387	6.1E-06	2.3E-06	1.4E-07	1.3E-05	5.2E-06	2.7E-07	2.2E-05	9.2E-06	4.5E-07	1.2E-05	4.7E-06	2.4E-07
6.3E+05	5.9E+06	Cabin	C388	6.0E-06	2.3E-06	1.4E-07	1.3E-05	5.3E-06	2.7E-07	2.2E-05	9.3E-06	4.5E-07	1.2E-05	4.7E-06	2.4E-07
6.3E+05	5.9E+06	Cabin	C389	5.6E-06	2.2E-06	1.3E-07	1.2E-05	5.0E-06	2.5E-07	2.0E-05	8.7E-06	4.1E-07	1.1E-05	4.4E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C390	5.6E-06	2.2E-06	1.3E-07	1.2E-05	4.9E-06	2.4E-07	2.0E-05	8.6E-06	4.0E-07	1.1E-05	4.4E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C391	5.5E-06	2.1E-06	1.3E-07	1.2E-05	4.8E-06	2.4E-07	2.0E-05	8.4E-06	4.0E-07	1.0E-05	4.3E-06	2.2E-07
6.3E+05	5.9E+06	Cabin	C392	4.1E-06	1.6E-06	7.7E-08	6.5E-06	2.5E-06	1.2E-07	1.0E-05	4.1E-06	1.8E-07	6.0E-06	2.4E-06	1.1E-07
6.3E+05	5.9E+06	Cabin	C393	3.9E-06	1.5E-06	7.3E-08	6.2E-06	2.4E-06	1.1E-07	9.8E-06	3.9E-06	1.7E-07	5.8E-06	2.3E-06	1.0E-07
6.3E+05	5.9E+06	Cabin	C394	3.9E-06	1.5E-06	7.2E-08	6.1E-06	2.4E-06	1.1E-07	9.7E-06	3.8E-06	1.7E-07	5.7E-06	2.2E-06	1.0E-07
6.3E+05	5.9E+06	Cabin	C395	3.8E-06	1.5E-06	7.0E-08	6.0E-06	2.4E-06	1.1E-07	9.5E-06	3.7E-06	1.7E-07	5.6E-06	2.2E-06	9.9E-08
6.3E+05	5.9E+06	Cabin	C396	3.8E-06	1.5E-06	6.9E-08	5.9E-06	2.4E-06	1.1E-07	9.4E-06	3.7E-06	1.6E-07	5.5E-06	2.2E-06	9.8E-08
6.3E+05	5.9E+06	Cabin	C397	3.8E-06	1.5E-06	6.9E-08	5.9E-06	2.3E-06	1.0E-07	9.4E-06	3.7E-06	1.6E-07	5.5E-06	2.2E-06	9.8E-08
6.3E+05	5.9E+06	Cabin	C398	3.7E-06	1.5E-06	6.8E-08	5.8E-06	2.3E-06	1.0E-07	9.3E-06	3.6E-06	1.6E-07	5.4E-06	2.1E-06	9.7E-08
6.3E+05	5.9E+06	Cabin	C399	3.7E-06	1.5E-06	6.7E-08	5.8E-06	2.3E-06	1.0E-07	9.2E-06	3.6E-06	1.6E-07	5.4E-06	2.1E-06	9.5E-08
6.3E+05	5.9E+06	Cabin	C400	3.7E-06	1.4E-06	6.6E-08	5.7E-06	2.3E-06	1.0E-07	9.1E-06	3.5E-06	1.5E-07	5.3E-06	2.1E-06	9.3E-08
6.3E+05	5.9E+06	Cabin	C401	3.6E-06	1.4E-06	6.6E-08	5.7E-06	2.3E-06	1.0E-07	9.1E-06	3.5E-06	1.6E-07	5.3E-06	2.1E-06	9.4E-08
6.3E+05	5.9E+06	Cabin	C402	3.5E-06	1.4E-06	6.3E-08	5.6E-06	2.2E-06	9.6E-08	8.8E-06	3.4E-06	1.5E-07	5.2E-06	2.0E-06	9.0E-08
6.3E+05	5.9E+06	Cabin	C403	3.5E-06	1.4E-06	6.2E-08	5.5E-06	2.2E-06	9.5E-08	8.7E-06	3.4E-06	1.5E-07	5.1E-06	2.0E-06	8.8E-08
6.3E+05	5.9E+06	Cabin	C404	3.5E-06	1.4E-06	6.2E-08	5.5E-06	2.1E-06	9.4E-08	8.6E-06	3.3E-06	1.5E-07	5.1E-06	2.0E-06	8.7E-08
6.3E+05	5.9E+06	Cabin	C405	3.4E-06	1.4E-06	6.1E-08	5.4E-06	2.1E-06	9.2E-08	8.5E-06	3.3E-06	1.4E-07	5.0E-06	2.0E-06	8.6E-08
6.3E+05	5.9E+06	Cabin	C406	3.4E-06	1.3E-06	5.9E-08	5.3E-06	2.1E-06	9.0E-08	8.4E-06	3.2E-06	1.4E-07	4.9E-06	1.9E-06	8.4E-08
6.3E+05	5.9E+06	Cabin	C407	3.3E-06	1.3E-06	5.8E-08	5.2E-06	2.0E-06	8.8E-08	8.2E-06	3.2E-06	1.4E-07	4.8E-06	1.9E-06	8.2E-08
6.3E+05	5.9E+06	Cabin	C408	3.3E-06	1.3E-06	5.6E-08	5.1E-06	2.0E-06	8.6E-08	8.1E-06	3.1E-06	1.3E-07	4.8E-06	1.8E-06	8.0E-08
6.3E+05	5.9E+06	Cabin	C409	3.3E-06	1.3E-06	5.6E-08	5.1E-06	2.0E-06	8.6E-08	8.0E-06	3.1E-06	1.3E-07	4.7E-06	1.8E-06	8.0E-08
6.3E+05	5.9E+06	Cabin	C410	3.3E-06	1.3E-06	5.6E-08	5.1E-06	2.0E-06	8.7E-08	8.0E-06	3.1E-06	1.3E-07	4.7E-06	1.8E-06	8.1E-08
6.3E+05	5.9E+06	Cabin	C411	3.0E-06	1.1E-06	5.3E-08	4.6E-06	1.8E-06	8.2E-08	7.4E-06	2.8E-06	1.3E-07	4.3E-06	1.7E-06	7.6E-08
6.3E+05	5.9E+06	Cabin	C412	3.3E-06	1.2E-06	5.9E-08	5.1E-06	1.9E-06	9.3E-08	8.1E-06	3.1E-06	1.5E-07	4.7E-06	1.8E-06	8.7E-08
6.3E+05	5.9E+06	Cabin	C413	3.4E-06	1.1E-06	6.0E-08	5.2E-06	1.9E-06	9.8E-08	8.4E-06	3.0E-06	1.6E-07	4.8E-06	1.7E-06	9.1E-08
6.3E+05	5.9E+06	Cabin	C414	3.4E-06	1.1E-06	6.1E-08	5.3E-06	1.9E-06	9.9E-08	8.5E-06	3.1E-06	1.6E-07	4.9E-06	1.7E-06	9.2E-08
6.3E+05	5.9E+06	Cabin	C415	3.4E-06	1.0E-06	5.9E-08	5.4E-06	1.8E-06	9.9E-08	8.6E-06	3.0E-06	1.6E-07	5.0E-06	1.7E-06	9.1E-08
6.3E+05	5.9E+06	Cabin	C416	3.0E-06	8.3E-07	5.0E-08	4.9E-06	1.5E-06	8.5E-08	7.9E-06	2.5E-06	1.4E-07	4.5E-06	1.4E-06	7.8E-08
6.3E+05	5.9E+06	Cabin	C417	3.2E-06	8.7E-07	5.3E-08	5.1E-06	1.6E-06	9.0E-08	8.5E-06	2.7E-06	1.5E-07	4.7E-06	1.5E-06	8.3E-08
6.3E+05	5.9E+06	Cabin	C418	3.1E-06	8.6E-07	5.3E-08	5.1E-06	1.6E-06	9.0E-08	8.5E-06	2.7E-06	1.4E-07	4.7E-06	1.5E-06	8.2E-08
6.3E+05	5.9E+06	Cabin	C419	3.2E-06	8.6E-07	5.3E-08	5.1E-06	1.6E-06	9.0E-08	8.5E-06	2.7E-06	1.5E-07	4.8E-06	1.5E-06	8.3E-08
6.3E+05	5.9E+06	Cabin	C420	3.1E-06	8.3E-07	5.1E-08	5.1E-06	1.6E-06	8.7E-08	8.5E-06	2.6E-06	1.4E-07	4.7E-06	1.4E-06	8.0E-08
6.3E+05	5.9E+06	Cabin	C421	3.1E-06	8.3E-07	5.1E-08	5.1E-06	1.6E-06	8.8E-08	8.6E-06	2.7E-06	1.4E-07	4.7E-06	1.4E-06	8.1E-08
6.3E+05	5.9E+06	Cabin	C422	3.1E-06	8.2E-07	5.1E-08	5.1E-06	1.6E-06	8.8E-08	8.6E-06	2.7E-06	1.4E-07	4.7E-06	1.4E-06	8.1E-08
6.3E+05	5.9E+06	Cabin	C423	3.1E-06	8.3E-07	5.2E-08	5.2E-06	1.6E-06	8.9E-08	8.8E-06	2.7E-06	1.5E-07	4.8E-06	1.5E-06	8.2E-08

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.3E+05	5.9E+06	Cabin	C424	3.1E-06	8.4E-07	5.2E-08	5.2E-06	1.6E-06	9.0E-08	8.9E-06	2.8E-06	1.5E-07	4.8E-06	1.5E-06	8.3E-08
6.3E+05	5.9E+06	Cabin	C425	3.1E-06	8.4E-07	5.2E-08	5.3E-06	1.7E-06	9.1E-08	8.9E-06	2.8E-06	1.5E-07	4.8E-06	1.5E-06	8.3E-08
6.3E+05	5.9E+06	Cabin	C426	3.1E-06	8.4E-07	5.2E-08	5.3E-06	1.7E-06	9.1E-08	9.0E-06	2.8E-06	1.5E-07	4.8E-06	1.5E-06	8.4E-08
6.3E+05	5.9E+06	Cabin	C427	3.1E-06	8.5E-07	5.3E-08	5.3E-06	1.7E-06	9.2E-08	9.1E-06	2.8E-06	1.5E-07	4.8E-06	1.5E-06	8.4E-08
6.3E+05	5.9E+06	Cabin	C428	3.1E-06	8.3E-07	5.1E-08	5.2E-06	1.6E-06	8.9E-08	8.9E-06	2.8E-06	1.5E-07	4.8E-06	1.5E-06	8.2E-08
6.3E+05	5.9E+06	Cabin	C429	3.1E-06	8.2E-07	5.1E-08	5.2E-06	1.6E-06	8.9E-08	8.8E-06	2.7E-06	1.4E-07	4.7E-06	1.5E-06	8.2E-08
6.3E+05	5.9E+06	Cabin	C430	3.1E-06	8.2E-07	5.1E-08	5.2E-06	1.6E-06	8.9E-08	8.7E-06	2.7E-06	1.4E-07	4.7E-06	1.5E-06	8.1E-08
6.3E+05	5.9E+06	Cabin	C431	3.1E-06	8.1E-07	5.1E-08	5.1E-06	1.6E-06	8.7E-08	8.6E-06	2.7E-06	1.4E-07	4.7E-06	1.4E-06	8.0E-08
6.3E+05	5.9E+06	Cabin	C432	4.0E-06	1.4E-06	8.4E-08	7.0E-06	2.7E-06	1.4E-07	1.1E-05	4.6E-06	2.3E-07	6.4E-06	2.5E-06	1.3E-07
6.4E+05	5.9E+06	Cabin	C433	2.3E-06	5.8E-07	4.1E-08	4.2E-06	1.2E-06	7.4E-08	7.3E-06	2.1E-06	1.2E-07	3.8E-06	1.1E-06	6.8E-08
6.3E+05	5.9E+06	Cabin	C434	2.2E-06	4.6E-07	2.6E-08	3.4E-06	7.5E-07	4.1E-08	5.4E-06	1.2E-06	6.4E-08	3.1E-06	7.0E-07	3.8E-08
6.3E+05	5.9E+06	Cabin	C435	3.1E-06	7.4E-07	3.3E-08	4.5E-06	1.1E-06	5.0E-08	6.8E-06	1.8E-06	7.7E-08	4.2E-06	1.0E-06	4.6E-08
6.3E+05	5.9E+06	Cabin	C436	3.2E-06	7.8E-07	3.2E-08	4.5E-06	1.2E-06	4.8E-08	6.7E-06	1.8E-06	7.5E-08	4.2E-06	1.1E-06	4.5E-08
6.3E+05	5.9E+06	Cabin	C437	3.3E-06	8.4E-07	3.3E-08	4.7E-06	1.2E-06	5.0E-08	7.0E-06	1.9E-06	7.7E-08	4.4E-06	1.2E-06	4.7E-08
6.3E+05	5.9E+06	Cabin	C438	3.3E-06	8.3E-07	3.3E-08	4.6E-06	1.2E-06	5.0E-08	6.9E-06	1.9E-06	7.7E-08	4.4E-06	1.1E-06	4.6E-08
6.3E+05	5.9E+06	Cabin	C439	3.3E-06	8.2E-07	3.3E-08	4.6E-06	1.2E-06	5.0E-08	6.9E-06	1.9E-06	7.7E-08	4.3E-06	1.1E-06	4.6E-08
6.3E+05	5.9E+06	Cabin	C440	3.3E-06	8.1E-07	3.2E-08	4.6E-06	1.2E-06	4.9E-08	6.8E-06	1.8E-06	7.6E-08	4.3E-06	1.1E-06	4.6E-08
6.3E+05	5.9E+06	Cabin	C441	3.2E-06	8.0E-07	3.2E-08	4.5E-06	1.2E-06	4.9E-08	6.7E-06	1.8E-06	7.6E-08	4.2E-06	1.1E-06	4.6E-08
6.3E+05	5.9E+06	Cabin	C442	4.0E-06	1.2E-06	4.9E-08	5.7E-06	1.8E-06	7.2E-08	8.6E-06	2.7E-06	1.1E-07	5.3E-06	1.7E-06	6.7E-08
6.3E+05	5.9E+06	Cabin	C443	3.8E-06	1.2E-06	4.8E-08	5.6E-06	1.7E-06	7.1E-08	8.5E-06	2.6E-06	1.1E-07	5.2E-06	1.6E-06	6.6E-08
6.3E+05	5.9E+06	Cabin	C444	3.8E-06	1.1E-06	4.9E-08	5.5E-06	1.7E-06	7.3E-08	8.5E-06	2.6E-06	1.1E-07	5.2E-06	1.6E-06	6.8E-08
6.3E+05	5.9E+06	Cabin	C445	4.0E-06	9.0E-07	5.0E-08	5.3E-06	1.4E-06	7.1E-08	8.1E-06	2.2E-06	1.1E-07	5.0E-06	1.3E-06	6.7E-08
6.3E+05	5.9E+06	Cabin	C446	4.1E-06	8.8E-07	5.0E-08	5.3E-06	1.4E-06	7.2E-08	8.1E-06	2.2E-06	1.1E-07	5.0E-06	1.3E-06	6.8E-08
6.3E+05	5.9E+06	Cabin	C447	4.1E-06	8.6E-07	5.1E-08	5.4E-06	1.4E-06	7.3E-08	8.1E-06	2.2E-06	1.1E-07	5.1E-06	1.3E-06	6.9E-08
6.3E+05	5.9E+06	Cabin	C448	4.2E-06	8.6E-07	5.2E-08	5.5E-06	1.4E-06	7.4E-08	8.2E-06	2.2E-06	1.1E-07	5.2E-06	1.3E-06	7.0E-08
6.2E+05	5.9E+06	Cabin	C449	3.1E-06	8.2E-07	3.1E-08	4.3E-06	1.2E-06	4.7E-08	6.4E-06	1.8E-06	7.2E-08	4.1E-06	1.1E-06	4.4E-08
6.4E+05	5.9E+06	Cabin	C450	1.7E-05	4.8E-06	3.1E-07	3.9E-05	1.1E-05	6.0E-07	6.8E-05	1.9E-05	1.0E-06	3.5E-05	9.8E-06	5.4E-07
6.4E+05	5.9E+06	Cabin	C451	1.8E-05	5.4E-06	3.2E-07	4.1E-05	1.2E-05	6.1E-07	7.3E-05	2.1E-05	1.0E-06	3.7E-05	1.1E-05	5.6E-07
6.4E+05	5.9E+06	Cabin	C452	2.1E-05	7.2E-06	3.8E-07	4.8E-05	1.6E-05	7.6E-07	8.5E-05	2.9E-05	1.3E-06	4.3E-05	1.5E-05	6.9E-07
6.2E+05	5.9E+06	Cabin	C453	2.8E-06	1.1E-06	3.5E-08	4.2E-06	1.6E-06	5.3E-08	6.5E-06	2.5E-06	8.2E-08	3.9E-06	1.5E-06	4.9E-08
6.2E+05	5.9E+06	Cabin	C454	2.5E-06	9.7E-07	3.2E-08	4.0E-06	1.4E-06	4.8E-08	6.2E-06	2.1E-06	7.4E-08	3.7E-06	1.3E-06	4.5E-08
6.2E+05	5.9E+06	Cabin	C455	2.5E-06	9.8E-07	3.2E-08	4.0E-06	1.4E-06	4.8E-08	6.3E-06	2.1E-06	7.5E-08	3.7E-06	1.3E-06	4.5E-08
6.2E+05	5.9E+06	Cabin	C456	4.9E-06	1.2E-06	4.3E-08	7.0E-06	1.8E-06	6.2E-08	9.2E-06	2.8E-06	9.5E-08	6.6E-06	1.7E-06	5.8E-08
6.3E+05	5.9E+06	Cabin	C457	5.6E-06	2.2E-06	1.3E-07	1.2E-05	4.3E-06	2.4E-07	2.1E-05	7.3E-06	3.9E-07	1.1E-05	3.9E-06	2.2E-07
6.4E+05	5.9E+06	Cabin	C458	1.3E-05	3.3E-06	2.8E-07	2.7E-05	6.4E-06	5.7E-07	4.6E-05	1.1E-05	9.7E-07	2.4E-05	5.7E-06	5.1E-07
6.4E+05	5.9E+06	Cabin	C459	1.4E-05	3.3E-06	2.5E-07	3.0E-05	7.2E-06	5.2E-07	5.3E-05	1.2E-05	8.9E-07	2.7E-05	6.5E-06	4.7E-07
6.4E+05	5.9E+06	Cabin	C460	1.1E-05	2.6E-06	2.6E-07	2.4E-05	5.2E-06	5.2E-07	4.2E-05	8.7E-06	8.8E-07	2.2E-05	4.7E-06	4.7E-07
6.4E+05	5.9E+06	Cabin	C461	5.6E-06	2.0E-06	2.0E-07	1.3E-05	4.7E-06	3.4E-07	2.1E-05	8.3E-06	5.5E-07	1.2E-05	4.2E-06	3.2E-07
6.5E+05	5.9E+06	Cabin	C462	3.5E-06	1.5E-06	9.5E-08	6.7E-06	3.0E-06	1.8E-07	1.1E-05	5.1E-06	2.9E-07	6.1E-06	2.7E-06	1.6E-07
6.3E+05	5.9E+06	Cabin (Quebec)	C463	6.3E-06	1.6E-06	5.1E-08	8.9E-06	2.3E-06	7.5E-08	1.1E-05	3.4E-06	1.1E-07	8.4E-06	2.1E-06	7.0E-08
6.3E+05	5.9E+06	Cabin (Quebec)	C464	7.9E-06	2.0E-06	6.3E-08	1.1E-05	2.7E-06	9.0E-08	1.3E-05	4.1E-06	1.4E-07	1.0E-05	2.6E-06	8.5E-08
6.3E+05	5.9E+06	Cabin (Quebec)	C465	6.9E-06	2.4E-06	7.0E-08	9.0E-06	3.2E-06	9.8E-08	1.3E-05	4.7E-06	1.5E-07	8.5E-06	3.1E-06	9.2E-08
6.3E+05	5.9E+06	Cabin (Quebec)	C466	8.9E-06	3.6E-06	1.2E-07	1.2E-05	4.8E-06	1.6E-07	1.7E-05	7.0E-06	2.4E-07	1.1E-05	4.5E-06	1.6E-07
6.3E+05	5.9E+06	Cabin (Quebec)	C467	1.2E-05	2.6E-06	1.6E-07	1.5E-05	3.1E-06	2.1E-07	2.1E-05	4.7E-06	3.1E-07	1.4E-05	3.0E-06	2.0E-07
6.3E+05	5.9E+06	Cabin (Quebec)	C468	1.0E-05	2.9E-06	9.3E-08	1.4E-05	4.0E-06	1.3E-07	2.0E-05	5.9E-06	2.0E-07	1.3E-05	3.7E-06	1.2E-07
6.3E+05	5.9E+06	Cabin (Quebec)	C469	1.1E-05	2.5E-06	1.5E-07	1.4E-05	3.5E-06	2.0E-07	2.0E-05	5.4E-06	2.9E-07	1.3E-05	3.3E-06	1.9E-07
6.2E+05	5.9E+06	Cabin (Quebec)	C470	3.0E-06	9.4E-07	3.8E-08	4.1E-06	1.4E-06	5.8E-08	6.4E-06	2.2E-06	9.0E-08	3.8E-06	1.3E-06	5.4E-08
6.2E+05	5.9E+06	Cabin (Quebec)	C471	2.9E-06	8.3E-07	3.0E-08	4.4E-06	1.3E-06	4.6E-08	6.8E-06	2.0E-06	7.1E-08	4.1E-06	1.2E-06	4.3E-08
6.2E+05	5.9E+06	Cabin (Quebec)	C472	2.8E-06	7.7E-07	3.0E-08	4.3E-06	1.2E-06	4.5E-08	6.6E-06	1.9E-06	7.0E-08	4.0E-06	1.1E-06	4.2E-08
6.2E+05	5.9E+06	Cabin (Quebec)	C473	3.6E-06	9.6E-07	3.8E-08	5.4E-06	1.5E-06	5.7E-08	8.4E-06	2.3E-06	8.8E-08	5.1E-06	1.4E-06	5.3E-08
6.2E+05	5.8E+06	Cabin (Quebec)	C474	2.8E-06	9.7E-07	4.5E-08	4.2E-06	1.4E-06	6.5E-08	6.5E-06	2.2E-06	1.0E-07	3.9E-06	1.3E-06	6.1E-08
6.2E+05	5.8E+06	Cabin (Quebec)	C475	2.9E-06	1.0E-06	4.7E-08	4.4E-06	1.5E-06	6.8E-08	6.8E-06	2.2E-06	1.0E-07	4.1E-06	1.4E-06	6.4E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C476	3.2E-06	1.1E-06	5.3E-08	4.7E-06	1.6E-06	7.6E-08	7.4E-06	2.4E-06	1.2E-07	4.4E-06	1.5E-06	7.2E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C477	3.4E-06	1.2E-06	5.9E-08	5.1E-06	1.7E-06	8.4E-08	7.9E-06	2.6E-06	1.3E-07	4.8E-06	1.6E-06	7.9E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C478	3.4E-06	1.2E-06	5.9E-08	5.1E-06	1.7E-06	8.4E-08	7.9E-06	2.6E-06	1.3E-07	4.8E-06	1.6E-06	7.9E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C479	3.4E-06	1.2E-06	6.0E-08	5.1E-06	1.7E-06	8.5E-08	7.9E-06	2.6E-06	1.3E-07	4.8E-06	1.6E-06	8.0E-08

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP (ug/m^3)	24 hr BAP (ug/m^3)	Annual BAP (ug/m^3)	1 hr Benz(a)anthracene (ug/m^3)	24 hr Benz(a)anthracene (ug/m^3)	Annual Benz(a)anthracene (ug/m^3)	1 hr Benzo(b+j+k)fluoranthene (ug/m^3)	24 hr Benzo(b+j+k)fluoranthene (ug/m^3)	Annual Benzo(b+j+k)fluoranthene (ug/m^3)	1 hr Benzo(g,h,i)perylene (ug/m^3)	24 hr Benzo(g,h,i)perylene (ug/m^3)	Annual Benzo(g,h,i)perylene (ug/m^3)
			Screening Criteria (µg/m^3)	--	--	1.2E-04	--	--	--	--	--	--	--	--	--
6.3E+05	5.8E+06	Cabin (Quebec)	C480	3.8E-06	1.3E-06	6.6E-08	5.8E-06	1.8E-06	9.5E-08	8.9E-06	2.8E-06	1.4E-07	5.4E-06	1.7E-06	8.9E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C481	3.3E-06	1.1E-06	5.2E-08	5.0E-06	1.5E-06	7.6E-08	7.8E-06	2.3E-06	1.1E-07	4.7E-06	1.4E-06	7.1E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C482	3.5E-06	1.3E-06	6.3E-08	5.3E-06	1.9E-06	9.0E-08	8.1E-06	2.9E-06	1.4E-07	4.9E-06	1.7E-06	8.4E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C483	3.3E-06	1.2E-06	5.4E-08	4.9E-06	1.7E-06	7.9E-08	7.6E-06	2.7E-06	1.2E-07	4.6E-06	1.6E-06	7.4E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C484	3.1E-06	1.1E-06	5.0E-08	4.8E-06	1.7E-06	7.4E-08	7.5E-06	2.6E-06	1.1E-07	4.5E-06	1.6E-06	6.9E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C485	3.2E-06	1.2E-06	5.2E-08	4.9E-06	1.7E-06	7.7E-08	7.7E-06	2.7E-06	1.2E-07	4.6E-06	1.6E-06	7.2E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C486	3.4E-06	1.2E-06	5.6E-08	5.1E-06	1.8E-06	8.3E-08	8.0E-06	2.8E-06	1.3E-07	4.8E-06	1.7E-06	7.7E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C487	3.4E-06	1.2E-06	5.9E-08	5.2E-06	1.9E-06	8.5E-08	8.1E-06	2.9E-06	1.3E-07	4.9E-06	1.7E-06	8.0E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C488	3.4E-06	1.3E-06	5.8E-08	5.2E-06	1.9E-06	8.5E-08	8.1E-06	2.9E-06	1.3E-07	4.9E-06	1.8E-06	8.0E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C489	3.0E-06	1.1E-06	5.0E-08	4.8E-06	1.7E-06	7.5E-08	7.5E-06	2.7E-06	1.2E-07	4.4E-06	1.6E-06	7.0E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C490	2.7E-06	1.0E-06	4.6E-08	4.4E-06	1.6E-06	7.0E-08	6.9E-06	2.5E-06	1.1E-07	4.0E-06	1.5E-06	6.5E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C491	3.9E-06	1.5E-06	7.4E-08	5.9E-06	2.3E-06	1.1E-07	9.2E-06	3.5E-06	1.6E-07	5.5E-06	2.1E-06	1.0E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C492	4.1E-06	1.6E-06	7.8E-08	6.1E-06	2.3E-06	1.1E-07	9.4E-06	3.5E-06	1.7E-07	5.7E-06	2.2E-06	1.0E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C493	4.2E-06	1.6E-06	8.0E-08	6.2E-06	2.3E-06	1.1E-07	9.7E-06	3.6E-06	1.7E-07	5.8E-06	2.2E-06	1.1E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C494	3.2E-06	1.3E-06	6.0E-08	5.1E-06	2.0E-06	9.0E-08	8.1E-06	3.1E-06	1.4E-07	4.7E-06	1.8E-06	8.4E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C495	2.6E-06	1.1E-06	5.2E-08	4.3E-06	1.7E-06	7.9E-08	6.8E-06	2.7E-06	1.2E-07	4.0E-06	1.6E-06	7.4E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C496	3.6E-06	1.5E-06	7.0E-08	5.7E-06	2.2E-06	1.0E-07	8.9E-06	3.5E-06	1.6E-07	5.3E-06	2.1E-06	9.7E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C497	3.8E-06	1.5E-06	7.2E-08	5.8E-06	2.3E-06	1.1E-07	9.1E-06	3.5E-06	1.6E-07	5.4E-06	2.1E-06	1.0E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C498	3.8E-06	1.5E-06	7.4E-08	5.8E-06	2.3E-06	1.1E-07	9.1E-06	3.6E-06	1.7E-07	5.4E-06	2.2E-06	1.0E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C499	3.4E-06	1.4E-06	6.7E-08	5.3E-06	2.2E-06	1.0E-07	8.4E-06	3.3E-06	1.5E-07	4.9E-06	2.0E-06	9.3E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C500	3.6E-06	1.5E-06	7.3E-08	5.6E-06	2.3E-06	1.1E-07	8.8E-06	3.6E-06	1.7E-07	5.2E-06	2.2E-06	1.0E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C501	3.4E-06	1.6E-06	7.5E-08	5.3E-06	2.4E-06	1.1E-07	8.5E-06	3.7E-06	1.7E-07	4.9E-06	2.2E-06	1.0E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C502	2.9E-06	1.4E-06	6.3E-08	4.7E-06	2.1E-06	9.6E-08	7.5E-06	3.2E-06	1.5E-07	4.4E-06	1.9E-06	8.9E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C503	5.8E-06	2.2E-06	1.1E-07	6.9E-06	3.3E-06	1.6E-07	9.5E-06	5.0E-06	2.4E-07	6.6E-06	3.1E-06	1.5E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C504	5.0E-06	2.0E-06	9.4E-08	5.9E-06	2.9E-06	1.4E-07	8.2E-06	4.5E-06	2.1E-07	5.7E-06	2.7E-06	1.3E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C505	5.2E-06	2.1E-06	1.0E-07	6.2E-06	3.1E-06	1.5E-07	8.7E-06	4.7E-06	2.3E-07	6.0E-06	2.9E-06	1.4E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C506	4.6E-06	1.9E-06	9.2E-08	5.6E-06	2.8E-06	1.3E-07	7.8E-06	4.3E-06	2.1E-07	5.4E-06	2.6E-06	1.3E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C507	4.3E-06	1.8E-06	8.8E-08	5.3E-06	2.7E-06	1.3E-07	7.5E-06	4.1E-06	2.0E-07	5.1E-06	2.5E-06	1.2E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C508	3.5E-06	1.6E-06	7.9E-08	4.5E-06	2.4E-06	1.2E-07	6.9E-06	3.6E-06	1.8E-07	4.3E-06	2.2E-06	1.1E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C509	4.0E-06	1.7E-06	8.0E-08	4.8E-06	2.6E-06	1.2E-07	7.6E-06	4.0E-06	1.8E-07	4.6E-06	2.4E-06	1.1E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C510	3.7E-06	1.6E-06	7.6E-08	4.5E-06	2.4E-06	1.1E-07	7.4E-06	3.7E-06	1.7E-07	4.3E-06	2.3E-06	1.1E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C511	3.3E-06	1.5E-06	7.2E-08	4.3E-06	2.3E-06	1.1E-07	7.1E-06	3.5E-06	1.6E-07	3.9E-06	2.1E-06	1.0E-07
6.3E+05	5.8E+06	Cabin (Quebec)	C512	3.1E-06	1.5E-06	7.0E-08	4.2E-06	2.2E-06	1.0E-07	6.9E-06	3.4E-06	1.6E-07	3.8E-06	2.1E-06	9.8E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C513	3.2E-06	1.5E-06	7.0E-08	4.2E-06	2.2E-06	1.1E-07	7.0E-06	3.5E-06	1.6E-07	3.8E-06	2.1E-06	9.8E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C514	2.6E-06	1.4E-06	6.4E-08	4.4E-06	2.1E-06	9.6E-08	7.2E-06	3.2E-06	1.5E-07	4.1E-06	1.9E-06	9.0E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C515	2.4E-06	1.2E-06	5.7E-08	3.9E-06	1.9E-06	8.7E-08	6.4E-06	2.9E-06	1.4E-07	3.6E-06	1.7E-06	8.1E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C516	2.4E-06	1.3E-06	5.9E-08	4.0E-06	1.9E-06	8.9E-08	6.6E-06	2.9E-06	1.4E-07	3.7E-06	1.8E-06	8.3E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C517	2.5E-06	1.3E-06	6.2E-08	4.0E-06	2.0E-06	9.4E-08	6.5E-06	3.1E-06	1.5E-07	3.6E-06	1.8E-06	8.8E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C518	2.6E-06	1.3E-06	6.3E-08	3.8E-06	2.0E-06	9.6E-08	6.3E-06	3.0E-06	1.5E-07	3.5E-06	1.8E-06	8.9E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C519	2.4E-06	1.0E-06	5.9E-08	3.5E-06	1.6E-06	9.2E-08	5.5E-06	2.6E-06	1.4E-07	3.3E-06	1.5E-06	8.6E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C520	2.5E-06	1.1E-06	6.4E-08	3.6E-06	1.7E-06	9.8E-08	5.7E-06	2.7E-06	1.5E-07	3.4E-06	1.6E-06	9.1E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C521	2.7E-06	1.3E-06	6.7E-08	3.7E-06	2.0E-06	1.0E-07	6.2E-06	3.1E-06	1.6E-07	3.5E-06	1.8E-06	9.5E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C522	2.7E-06	1.3E-06	6.6E-08	3.8E-06	2.0E-06	9.9E-08	6.4E-06	3.1E-06	1.5E-07	3.5E-06	1.9E-06	9.3E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C523	2.7E-06	1.3E-06	6.6E-08	3.8E-06	2.0E-06	1.0E-07	6.3E-06	3.1E-06	1.5E-07	3.5E-06	1.9E-06	9.3E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C524	2.1E-06	8.9E-07	4.0E-08	3.4E-06	1.4E-06	6.1E-08	5.5E-06	2.1E-06	9.6E-08	3.2E-06	1.3E-06	5.7E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C525	2.2E-06	9.1E-07	4.0E-08	3.6E-06	1.4E-06	6.2E-08	5.7E-06	2.2E-06	9.7E-08	3.3E-06	1.3E-06	5.8E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C526	2.3E-06	9.4E-07	4.1E-08	3.7E-06	1.4E-06	6.4E-08	6.0E-06	2.3E-06	1.0E-07	3.5E-06	1.3E-06	5.9E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C527	2.5E-06	9.3E-07	4.0E-08	4.0E-06	1.4E-06	6.2E-08	6.3E-06	2.3E-06	9.6E-08	3.7E-06	1.3E-06	5.8E-08
6.3E+05	5.8E+06	Cabin (Quebec)	C528	2.0E-06	8.3E-07	3.7E-08	3.3E-06	1.3E-06	5.7E-08	5.3E-06	2.0E-06	8.9E-08	3.1E-06	1.2E-06	5.3E-08

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
			Maximum	4.86E-05	2.08E-05	1.34E-06	1.41E-02	4.66E-03	2.00E-04
			Maximum Location	C12 (MAX)	LU12	LU12	C12 (MAX)	C12 (MAX)	C12 (MAX)
6.4E+05	5.9E+06	Previous Receptors (Alderon 2012)	L1	3.6E-05	1.2E-05	6.4E-07	9.9E-03	3.7E-03	1.3E-04
6.4E+05	5.9E+06	Previous Receptors (Alderon 2012)	L2	1.7E-05	4.1E-06	4.4E-07	4.7E-03	9.7E-04	9.1E-05
6.4E+05	5.9E+06	Closest Residences	R1	4.9E-06	1.2E-06	9.6E-08	1.0E-03	2.3E-04	1.7E-05
6.4E+05	5.9E+06	Closest Residences	R2	4.7E-06	1.0E-06	8.3E-08	8.7E-04	2.5E-04	1.5E-05
6.3E+05	5.9E+06	Closest Residences	R3	8.6E-06	3.4E-06	2.0E-07	9.3E-04	2.3E-04	1.1E-05
6.4E+05	5.9E+06	Schools	S1	4.2E-06	1.1E-06	8.5E-08	6.8E-04	1.9E-04	1.6E-05
6.4E+05	5.9E+06	Schools	S2	4.4E-06	9.3E-07	7.7E-08	7.8E-04	2.2E-04	1.4E-05
6.3E+05	5.9E+06	Schools	S3/H2	8.6E-06	3.0E-06	1.7E-07	8.8E-04	2.8E-04	1.0E-05
6.4E+05	5.9E+06	Hospitals	H1	3.6E-06	7.9E-07	5.2E-08	6.5E-04	1.6E-04	8.5E-06
6.4E+05	5.9E+06	Land User	LU1	1.2E-05	3.7E-06	2.5E-07	3.2E-03	9.9E-04	5.6E-05
6.4E+05	5.9E+06	Land User	LU2	1.9E-05	5.1E-06	3.0E-07	5.0E-03	1.0E-03	5.8E-05
6.4E+05	5.9E+06	Land User	LU3	7.0E-06	2.7E-06	1.7E-07	1.5E-03	4.7E-04	3.0E-05
6.3E+05	5.9E+06	Land User	LU4	7.6E-06	3.1E-06	1.6E-07	1.8E-03	7.9E-04	2.8E-05
6.3E+05	5.9E+06	Land User	LU5	7.3E-06	2.5E-06	1.5E-07	1.1E-03	3.6E-04	1.4E-05
6.4E+05	5.9E+06	Land User	LU6	3.1E-05	6.8E-06	6.7E-07	8.6E-03	1.8E-03	1.6E-04
6.4E+05	5.8E+06	Land User	LU7	5.2E-06	1.5E-06	1.4E-07	8.9E-04	3.1E-04	2.0E-05
6.4E+05	5.8E+06	Land User	LU8	6.6E-06	2.2E-06	1.6E-07	1.6E-03	4.6E-04	2.9E-05
6.4E+05	5.8E+06	Land User	LU9	3.9E-06	1.5E-06	7.8E-08	6.3E-04	2.1E-04	1.2E-05
6.4E+05	5.8E+06	Land User	LU10	3.0E-06	9.1E-07	5.8E-08	4.9E-04	1.4E-04	8.9E-06
6.4E+05	5.9E+06	Land User	LU11	2.9E-05	9.3E-06	5.3E-07	8.1E-03	2.5E-03	1.1E-04
6.3E+05	5.9E+06	Land User	LU12	4.1E-05	2.1E-05	1.3E-06	2.6E-03	8.1E-04	2.7E-05
6.3E+05	5.8E+06	Land User	LU13	7.4E-06	3.0E-06	1.5E-07	7.7E-04	2.6E-04	1.2E-05
6.3E+05	5.8E+06	Land User	LU14	3.6E-06	1.7E-06	9.5E-08	5.7E-04	1.9E-04	9.7E-06
6.4E+05	5.8E+06	Cabin	C1	6.2E-06	2.3E-06	2.2E-07	1.8E-03	6.4E-04	3.5E-05
6.4E+05	5.9E+06	Cabin	C2	2.7E-05	8.4E-06	5.7E-07	7.6E-03	2.1E-03	1.2E-04
6.4E+05	5.9E+06	Cabin	C3	3.1E-05	9.7E-06	5.2E-07	8.6E-03	2.6E-03	1.1E-04
6.4E+05	5.9E+06	Cabin	C4	3.3E-05	1.1E-05	5.7E-07	9.2E-03	2.9E-03	1.2E-04
6.4E+05	5.9E+06	Cabin	C5	3.7E-05	1.1E-05	6.0E-07	1.0E-02	3.0E-03	1.3E-04
6.4E+05	5.9E+06	Cabin	C6	3.9E-05	1.2E-05	6.1E-07	1.1E-02	3.2E-03	1.2E-04
6.4E+05	5.9E+06	Cabin	C7	3.8E-05	1.1E-05	6.6E-07	1.0E-02	2.9E-03	1.4E-04
6.4E+05	5.9E+06	Cabin	C8	4.5E-05	1.2E-05	7.3E-07	1.3E-02	3.2E-03	1.5E-04
6.4E+05	5.9E+06	Cabin	C9	4.6E-05	1.1E-05	7.4E-07	1.3E-02	2.8E-03	1.6E-04
6.4E+05	5.9E+06	Cabin	C10	4.8E-05	1.0E-05	8.1E-07	1.3E-02	2.9E-03	1.7E-04
6.4E+05	5.9E+06	Cabin	C11	4.7E-05	1.1E-05	8.5E-07	1.3E-02	3.0E-03	1.8E-04
6.4E+05	5.9E+06	Cabin	C12 (MAX)	4.9E-05	1.7E-05	9.1E-07	1.4E-02	4.7E-03	2.0E-04
6.4E+05	5.9E+06	Cabin	C13	3.3E-05	1.0E-05	8.0E-07	9.7E-03	3.0E-03	1.8E-04
6.4E+05	5.9E+06	Cabin	C14	3.7E-05	1.2E-05	8.0E-07	1.1E-02	3.4E-03	1.8E-04
6.4E+05	5.9E+06	Cabin	C15	2.6E-05	9.2E-06	6.7E-07	7.5E-03	2.7E-03	1.5E-04
6.4E+05	5.9E+06	Cabin	C16	2.6E-05	9.3E-06	6.6E-07	7.4E-03	2.6E-03	1.5E-04
6.4E+05	5.9E+06	Cabin	C17	2.7E-05	9.2E-06	6.0E-07	7.6E-03	2.4E-03	1.3E-04
6.4E+05	5.9E+06	Cabin	C18	2.3E-05	7.8E-06	4.7E-07	6.5E-03	1.7E-03	1.0E-04
6.4E+05	5.9E+06	Cabin	C19	2.3E-05	8.1E-06	5.0E-07	6.2E-03	1.8E-03	1.1E-04
6.4E+05	5.9E+06	Cabin	C20	2.3E-05	8.3E-06	5.1E-07	6.3E-03	2.0E-03	1.1E-04
6.4E+05	5.9E+06	Cabin	C21	2.2E-05	8.0E-06	4.7E-07	5.9E-03	1.9E-03	1.0E-04
6.4E+05	5.9E+06	Cabin	C22	2.3E-05	8.3E-06	5.1E-07	6.3E-03	1.9E-03	1.1E-04
6.4E+05	5.9E+06	Cabin	C23	1.9E-05	6.9E-06	4.0E-07	5.2E-03	1.5E-03	8.6E-05
6.4E+05	5.9E+06	Cabin	C24	1.7E-05	6.3E-06	3.6E-07	4.6E-03	1.3E-03	7.6E-05
6.4E+05	5.9E+06	Cabin	C25	2.5E-05	8.3E-06	5.7E-07	6.8E-03	1.9E-03	1.2E-04
6.4E+05	5.9E+06	Cabin	C26	2.0E-05	5.3E-06	4.6E-07	5.1E-03	1.3E-03	1.0E-04
6.4E+05	5.9E+06	Cabin	C27	1.9E-05	4.9E-06	4.2E-07	4.9E-03	1.2E-03	9.4E-05
6.4E+05	5.9E+06	Cabin	C28	1.9E-05	4.6E-06	3.9E-07	4.7E-03	1.2E-03	8.6E-05
6.4E+05	5.9E+06	Cabin	C29	1.8E-05	4.5E-06	3.8E-07	4.7E-03	1.2E-03	8.4E-05
6.4E+05	5.9E+06	Cabin	C30	1.2E-05	4.9E-06	2.7E-07	3.2E-03	1.1E-03	5.5E-05
6.4E+05	5.9E+06	Cabin	C31	1.1E-05	4.5E-06	2.4E-07	2.8E-03	9.4E-04	4.6E-05

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
6.4E+05	5.9E+06	Cabin	C32	9.5E-06	4.1E-06	2.1E-07	2.5E-03	8.0E-04	3.8E-05
6.4E+05	5.9E+06	Cabin	C33	9.0E-06	3.7E-06	1.9E-07	2.2E-03	7.0E-04	3.2E-05
6.4E+05	5.9E+06	Cabin	C34	9.0E-06	3.7E-06	2.0E-07	2.3E-03	7.1E-04	3.4E-05
6.4E+05	5.9E+06	Cabin	C35	9.1E-06	3.7E-06	2.0E-07	2.5E-03	7.6E-04	3.6E-05
6.4E+05	5.9E+06	Cabin	C36	9.2E-06	3.7E-06	2.1E-07	2.4E-03	7.9E-04	3.7E-05
6.4E+05	5.9E+06	Cabin	C37	9.2E-06	3.7E-06	2.0E-07	2.5E-03	7.8E-04	3.6E-05
6.4E+05	5.9E+06	Cabin	C38	2.5E-05	8.7E-06	5.1E-07	6.5E-03	2.2E-03	1.2E-04
6.4E+05	5.9E+06	Cabin	C39	2.4E-05	7.9E-06	4.9E-07	6.4E-03	2.0E-03	1.1E-04
6.4E+05	5.9E+06	Cabin	C40	2.2E-05	7.2E-06	4.4E-07	5.6E-03	1.8E-03	9.9E-05
6.4E+05	5.9E+06	Cabin	C41	2.3E-05	7.7E-06	4.4E-07	6.0E-03	2.0E-03	9.9E-05
6.4E+05	5.9E+06	Cabin	C42	1.8E-05	4.4E-06	4.1E-07	4.8E-03	9.7E-04	9.0E-05
6.4E+05	5.9E+06	Cabin	C43	1.7E-05	3.9E-06	4.0E-07	4.5E-03	8.2E-04	8.6E-05
6.4E+05	5.9E+06	Cabin	C44	1.9E-05	5.3E-06	4.0E-07	4.8E-03	1.3E-03	8.8E-05
6.4E+05	5.9E+06	Cabin	C45	1.9E-05	5.4E-06	4.1E-07	4.9E-03	1.3E-03	9.0E-05
6.4E+05	5.9E+06	Cabin	C46	1.8E-05	5.7E-06	4.0E-07	4.7E-03	1.4E-03	8.9E-05
6.4E+05	5.9E+06	Cabin	C47	1.9E-05	6.1E-06	4.4E-07	4.9E-03	1.5E-03	9.7E-05
6.4E+05	5.9E+06	Cabin	C48	1.8E-05	6.7E-06	4.4E-07	4.7E-03	1.7E-03	1.0E-04
6.4E+05	5.9E+06	Cabin	C49	1.9E-05	7.1E-06	4.6E-07	4.7E-03	1.8E-03	1.0E-04
6.4E+05	5.9E+06	Cabin	C50	1.8E-05	7.1E-06	4.4E-07	4.8E-03	1.8E-03	9.8E-05
6.4E+05	5.9E+06	Cabin	C51	2.0E-05	7.5E-06	4.4E-07	5.3E-03	1.9E-03	9.9E-05
6.4E+05	5.9E+06	Cabin	C52	1.3E-05	4.2E-06	2.6E-07	3.3E-03	9.8E-04	5.6E-05
6.4E+05	5.9E+06	Cabin	C53	2.0E-05	5.9E-06	3.9E-07	5.2E-03	1.5E-03	8.6E-05
6.4E+05	5.9E+06	Cabin	C54	2.0E-05	5.4E-06	3.7E-07	5.4E-03	1.4E-03	8.2E-05
6.5E+05	5.9E+06	Cabin	C55	5.9E-06	1.5E-06	1.5E-07	1.4E-03	3.4E-04	2.8E-05
6.5E+05	5.9E+06	Cabin	C56	6.2E-06	1.7E-06	1.6E-07	1.5E-03	4.0E-04	2.9E-05
6.5E+05	5.9E+06	Cabin	C57	6.3E-06	1.8E-06	1.6E-07	1.6E-03	4.2E-04	2.9E-05
6.4E+05	5.9E+06	Cabin	C58	6.6E-06	1.7E-06	1.6E-07	1.7E-03	3.8E-04	3.0E-05
6.4E+05	5.9E+06	Cabin	C59	6.5E-06	1.5E-06	1.6E-07	1.5E-03	3.1E-04	3.0E-05
6.4E+05	5.9E+06	Cabin	C60	6.6E-06	1.5E-06	1.5E-07	1.6E-03	3.1E-04	2.9E-05
6.5E+05	5.9E+06	Cabin	C61	7.1E-06	1.6E-06	1.5E-07	1.5E-03	3.3E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C62	7.6E-06	1.6E-06	1.5E-07	1.7E-03	3.4E-04	2.8E-05
6.5E+05	5.9E+06	Cabin	C63	7.9E-06	1.7E-06	1.5E-07	1.9E-03	3.3E-04	2.9E-05
6.5E+05	5.9E+06	Cabin	C64	7.2E-06	1.6E-06	1.5E-07	1.6E-03	3.3E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C65	7.0E-06	1.6E-06	1.4E-07	1.5E-03	3.3E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C66	6.9E-06	1.5E-06	1.4E-07	1.5E-03	3.4E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C67	6.8E-06	1.5E-06	1.5E-07	1.5E-03	3.4E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C68	6.5E-06	1.5E-06	1.4E-07	1.6E-03	3.3E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C69	6.5E-06	1.5E-06	1.5E-07	1.6E-03	3.3E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C70	6.1E-06	1.5E-06	1.5E-07	1.5E-03	3.0E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C71	5.8E-06	1.4E-06	1.4E-07	1.4E-03	2.8E-04	2.6E-05
6.5E+05	5.9E+06	Cabin	C72	5.7E-06	1.4E-06	1.4E-07	1.3E-03	2.9E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C73	5.7E-06	1.5E-06	1.4E-07	1.3E-03	3.5E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C74	6.2E-06	2.1E-06	1.5E-07	1.6E-03	4.9E-04	2.9E-05
6.5E+05	5.9E+06	Cabin	C75	6.3E-06	2.3E-06	1.6E-07	1.6E-03	5.4E-04	2.9E-05
6.5E+05	5.9E+06	Cabin	C76	6.0E-06	2.5E-06	1.5E-07	1.5E-03	5.8E-04	2.9E-05
6.5E+05	5.9E+06	Cabin	C77	5.5E-06	2.5E-06	1.5E-07	1.3E-03	5.3E-04	2.7E-05
6.5E+05	5.9E+06	Cabin	C78	5.4E-06	2.3E-06	1.4E-07	1.1E-03	4.7E-04	2.6E-05
6.5E+05	5.9E+06	Cabin	C79	5.4E-06	2.3E-06	1.4E-07	1.1E-03	4.4E-04	2.5E-05
6.5E+05	5.9E+06	Cabin	C80	5.2E-06	2.2E-06	1.4E-07	1.0E-03	4.4E-04	2.4E-05
6.5E+05	5.9E+06	Cabin	C81	5.2E-06	2.3E-06	1.4E-07	1.1E-03	4.4E-04	2.4E-05
6.5E+05	5.9E+06	Cabin	C82	5.6E-06	1.5E-06	1.1E-07	1.0E-03	2.7E-04	2.0E-05
6.5E+05	5.9E+06	Cabin	C83	5.2E-06	1.6E-06	1.0E-07	9.4E-04	2.9E-04	1.9E-05
6.5E+05	5.9E+06	Cabin	C84	3.8E-06	9.1E-07	8.4E-08	6.5E-04	1.8E-04	1.4E-05
6.5E+05	5.9E+06	Cabin	C85	4.4E-06	8.9E-07	8.4E-08	6.9E-04	1.6E-04	1.4E-05
6.5E+05	5.9E+06	Cabin	C86	4.7E-06	1.2E-06	8.2E-08	7.8E-04	2.0E-04	1.4E-05
6.5E+05	5.9E+06	Cabin	C87	4.9E-06	1.3E-06	8.5E-08	9.4E-04	2.6E-04	1.6E-05

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria (µg/m^3)	--	--	1.2E-04	500	--	3.1
6.5E+05	5.9E+06	Cabin	C88	3.6E-06	1.3E-06	7.8E-08	6.3E-04	2.4E-04	1.4E-05
6.5E+05	5.9E+06	Cabin	C89	3.6E-06	1.4E-06	8.2E-08	6.5E-04	2.5E-04	1.5E-05
6.6E+05	5.9E+06	Cabin	C90	1.6E-06	4.0E-07	2.5E-08	2.4E-04	6.3E-05	3.9E-06
6.5E+05	5.9E+06	Cabin	C91	2.1E-06	5.1E-07	3.1E-08	3.2E-04	8.1E-05	4.9E-06
6.5E+05	5.9E+06	Cabin	C92	2.2E-06	5.5E-07	3.7E-08	3.4E-04	8.8E-05	6.0E-06
6.5E+05	5.9E+06	Cabin	C93	1.6E-06	4.2E-07	2.6E-08	2.3E-04	6.7E-05	4.0E-06
6.5E+05	5.9E+06	Cabin	C94	1.9E-06	5.1E-07	3.2E-08	3.0E-04	8.6E-05	5.1E-06
6.5E+05	5.9E+06	Cabin	C95	1.8E-06	5.0E-07	3.1E-08	2.9E-04	8.4E-05	5.0E-06
6.5E+05	5.9E+06	Cabin	C96	2.0E-06	5.1E-07	3.4E-08	3.1E-04	8.3E-05	5.4E-06
6.5E+05	5.9E+06	Cabin	C97	2.0E-06	5.1E-07	3.3E-08	3.0E-04	8.3E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C98	1.9E-06	5.0E-07	3.2E-08	2.9E-04	8.2E-05	5.1E-06
6.5E+05	5.9E+06	Cabin	C99	1.9E-06	5.0E-07	3.2E-08	2.9E-04	8.2E-05	5.1E-06
6.5E+05	5.9E+06	Cabin	C100	1.9E-06	5.0E-07	3.2E-08	2.9E-04	8.1E-05	5.2E-06
6.5E+05	5.9E+06	Cabin	C101	1.9E-06	4.9E-07	3.2E-08	2.9E-04	7.8E-05	5.2E-06
6.5E+05	5.9E+06	Cabin	C102	2.0E-06	5.0E-07	3.3E-08	3.0E-04	8.2E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C103	2.0E-06	5.0E-07	3.3E-08	3.0E-04	8.0E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C104	1.9E-06	5.0E-07	3.3E-08	3.0E-04	8.0E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C105	2.0E-06	5.0E-07	3.3E-08	3.0E-04	7.9E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C106	2.0E-06	5.0E-07	3.3E-08	3.0E-04	8.0E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C107	2.0E-06	5.0E-07	3.3E-08	3.0E-04	7.9E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C108	1.9E-06	5.0E-07	3.3E-08	2.9E-04	7.8E-05	5.2E-06
6.5E+05	5.9E+06	Cabin	C109	2.0E-06	5.0E-07	3.3E-08	2.9E-04	7.8E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C110	2.0E-06	5.0E-07	3.3E-08	2.9E-04	7.9E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C111	2.0E-06	5.0E-07	3.4E-08	2.9E-04	7.9E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C112	2.0E-06	5.0E-07	3.4E-08	2.9E-04	7.8E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C113	2.0E-06	4.9E-07	3.3E-08	2.9E-04	7.8E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C114	2.0E-06	4.9E-07	3.3E-08	2.9E-04	7.7E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C115	2.0E-06	4.9E-07	3.3E-08	2.9E-04	7.7E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C116	2.0E-06	4.9E-07	3.3E-08	2.9E-04	7.7E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C117	2.0E-06	4.8E-07	3.3E-08	2.8E-04	7.5E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C118	2.0E-06	4.7E-07	3.3E-08	2.8E-04	7.5E-05	5.2E-06
6.4E+05	5.9E+06	Cabin	C119	2.9E-06	7.2E-07	5.2E-08	4.3E-04	1.2E-04	8.9E-06
6.5E+05	5.9E+06	Cabin	C120	2.2E-06	4.8E-07	3.5E-08	3.5E-04	7.5E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C121	2.1E-06	5.0E-07	3.3E-08	2.9E-04	7.6E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C122	2.0E-06	4.8E-07	3.2E-08	2.8E-04	7.2E-05	5.1E-06
6.5E+05	5.9E+06	Cabin	C123	1.9E-06	4.5E-07	3.0E-08	2.8E-04	6.6E-05	4.7E-06
6.5E+05	5.9E+06	Cabin	C124	1.6E-06	3.9E-07	2.6E-08	2.2E-04	5.9E-05	4.1E-06
6.5E+05	5.9E+06	Cabin	C125	1.7E-06	4.1E-07	2.8E-08	2.3E-04	6.3E-05	4.4E-06
6.5E+05	5.9E+06	Cabin	C126	1.6E-06	3.9E-07	2.7E-08	2.2E-04	6.1E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C127	1.6E-06	3.8E-07	2.6E-08	2.1E-04	5.9E-05	4.2E-06
6.5E+05	5.9E+06	Cabin	C128	1.6E-06	3.9E-07	2.8E-08	2.2E-04	6.1E-05	4.4E-06
6.5E+05	5.9E+06	Cabin	C129	1.9E-06	4.5E-07	3.1E-08	2.6E-04	7.1E-05	5.1E-06
6.5E+05	5.9E+06	Cabin	C130	1.9E-06	4.5E-07	3.2E-08	2.6E-04	7.1E-05	5.1E-06
6.5E+05	5.9E+06	Cabin	C131	1.9E-06	4.5E-07	3.2E-08	2.6E-04	7.1E-05	5.1E-06
6.5E+05	5.9E+06	Cabin	C132	1.8E-06	4.1E-07	3.0E-08	2.4E-04	6.6E-05	4.9E-06
6.5E+05	5.9E+06	Cabin	C133	1.8E-06	4.1E-07	3.1E-08	2.4E-04	6.6E-05	5.0E-06
6.5E+05	5.9E+06	Cabin	C134	1.8E-06	4.2E-07	3.2E-08	2.5E-04	6.8E-05	5.2E-06
6.5E+05	5.9E+06	Cabin	C135	1.9E-06	4.6E-07	3.3E-08	2.6E-04	7.3E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C136	1.9E-06	4.6E-07	3.3E-08	2.7E-04	7.4E-05	5.4E-06
6.5E+05	5.9E+06	Cabin	C137	2.0E-06	5.0E-07	3.6E-08	2.9E-04	8.1E-05	6.0E-06
6.5E+05	5.9E+06	Cabin	C138	2.1E-06	4.9E-07	3.8E-08	3.0E-04	8.1E-05	6.2E-06
6.5E+05	5.9E+06	Cabin	C139	1.9E-06	4.6E-07	3.4E-08	2.7E-04	7.5E-05	5.4E-06
6.5E+05	5.9E+06	Cabin	C140	1.9E-06	4.7E-07	3.4E-08	2.7E-04	7.5E-05	5.5E-06
6.5E+05	5.9E+06	Cabin	C141	1.9E-06	4.7E-07	3.4E-08	2.7E-04	7.5E-05	5.5E-06
6.5E+05	5.9E+06	Cabin	C142	1.9E-06	4.7E-07	3.4E-08	2.7E-04	7.5E-05	5.5E-06
6.5E+05	5.9E+06	Cabin	C143	1.9E-06	4.7E-07	3.4E-08	2.7E-04	7.5E-05	5.6E-06

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
6.5E+05	5.9E+06	Cabin	C144	1.9E-06	4.7E-07	3.4E-08	2.7E-04	7.5E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C145	1.9E-06	4.7E-07	3.4E-08	2.8E-04	7.6E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C146	1.9E-06	4.7E-07	3.5E-08	2.8E-04	7.6E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C147	1.9E-06	4.7E-07	3.5E-08	2.8E-04	7.6E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C148	1.9E-06	4.7E-07	3.5E-08	2.8E-04	7.6E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C149	1.9E-06	4.2E-07	3.3E-08	2.5E-04	6.7E-05	5.2E-06
6.5E+05	5.9E+06	Cabin	C150	2.0E-06	4.5E-07	3.4E-08	2.6E-04	7.2E-05	5.5E-06
6.5E+05	5.9E+06	Cabin	C151	2.0E-06	4.5E-07	3.4E-08	2.6E-04	7.2E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C152	2.0E-06	4.5E-07	3.5E-08	2.6E-04	7.3E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C153	2.0E-06	4.5E-07	3.5E-08	2.6E-04	7.4E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C154	1.9E-06	4.3E-07	3.3E-08	2.6E-04	7.0E-05	5.4E-06
6.5E+05	5.9E+06	Cabin	C155	1.9E-06	4.3E-07	3.4E-08	2.6E-04	7.0E-05	5.4E-06
6.5E+05	5.9E+06	Cabin	C156	1.9E-06	4.3E-07	3.3E-08	2.5E-04	7.0E-05	5.4E-06
6.5E+05	5.9E+06	Cabin	C157	1.9E-06	4.2E-07	3.3E-08	2.5E-04	6.9E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C158	1.9E-06	4.2E-07	3.3E-08	2.5E-04	6.8E-05	5.3E-06
6.5E+05	5.9E+06	Cabin	C159	2.0E-06	4.5E-07	3.5E-08	2.7E-04	7.3E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C160	2.0E-06	4.5E-07	3.5E-08	2.7E-04	7.2E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C161	2.0E-06	4.5E-07	3.5E-08	2.7E-04	7.2E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C162	1.9E-06	4.4E-07	3.5E-08	2.7E-04	7.2E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C163	1.9E-06	4.4E-07	3.5E-08	2.7E-04	7.2E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C164	1.9E-06	4.4E-07	3.4E-08	2.7E-04	7.2E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C165	1.9E-06	4.4E-07	3.4E-08	2.7E-04	7.2E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C166	1.9E-06	4.4E-07	3.4E-08	2.6E-04	7.2E-05	5.5E-06
6.5E+05	5.9E+06	Cabin	C167	1.9E-06	4.4E-07	3.4E-08	2.7E-04	7.2E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C168	1.9E-06	4.5E-07	3.4E-08	2.7E-04	7.3E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C169	1.9E-06	4.5E-07	3.5E-08	2.7E-04	7.3E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C170	1.9E-06	4.5E-07	3.5E-08	2.7E-04	7.3E-05	5.6E-06
6.5E+05	5.9E+06	Cabin	C171	1.9E-06	4.5E-07	3.5E-08	2.7E-04	7.3E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C172	2.0E-06	4.5E-07	3.5E-08	2.7E-04	7.3E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C173	2.0E-06	4.5E-07	3.5E-08	2.7E-04	7.3E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C174	2.0E-06	4.5E-07	3.5E-08	2.7E-04	7.4E-05	5.7E-06
6.5E+05	5.9E+06	Cabin	C175	2.0E-06	4.6E-07	3.5E-08	2.7E-04	7.4E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C176	2.0E-06	4.6E-07	3.6E-08	2.7E-04	7.4E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C177	2.0E-06	4.6E-07	3.6E-08	2.8E-04	7.4E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C178	2.0E-06	4.6E-07	3.6E-08	2.8E-04	7.5E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C179	2.0E-06	4.6E-07	3.6E-08	2.8E-04	7.5E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C180	2.0E-06	4.7E-07	3.7E-08	2.9E-04	7.7E-05	6.0E-06
6.5E+05	5.9E+06	Cabin	C181	2.0E-06	4.7E-07	3.6E-08	2.9E-04	7.7E-05	6.0E-06
6.5E+05	5.9E+06	Cabin	C182	2.0E-06	4.7E-07	3.6E-08	2.9E-04	7.8E-05	6.0E-06
6.5E+05	5.9E+06	Cabin	C183	2.0E-06	4.8E-07	3.6E-08	2.9E-04	7.8E-05	6.0E-06
6.5E+05	5.9E+06	Cabin	C184	2.0E-06	4.8E-07	3.6E-08	2.9E-04	7.8E-05	5.9E-06
6.5E+05	5.9E+06	Cabin	C185	2.0E-06	4.7E-07	3.6E-08	2.8E-04	7.7E-05	5.9E-06
6.5E+05	5.9E+06	Cabin	C186	2.0E-06	4.8E-07	3.6E-08	2.9E-04	7.8E-05	5.9E-06
6.5E+05	5.9E+06	Cabin	C187	2.0E-06	4.8E-07	3.6E-08	2.9E-04	7.9E-05	5.9E-06
6.5E+05	5.9E+06	Cabin	C188	2.0E-06	4.8E-07	3.6E-08	2.9E-04	7.8E-05	5.9E-06
6.5E+05	5.9E+06	Cabin	C189	2.0E-06	4.8E-07	3.6E-08	2.9E-04	7.8E-05	5.9E-06
6.5E+05	5.9E+06	Cabin	C190	2.0E-06	4.8E-07	3.6E-08	2.9E-04	7.8E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C191	2.0E-06	4.8E-07	3.6E-08	2.8E-04	7.8E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C192	2.0E-06	4.7E-07	3.6E-08	2.8E-04	7.7E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C193	2.0E-06	4.7E-07	3.6E-08	2.8E-04	7.7E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C194	2.0E-06	4.7E-07	3.5E-08	2.8E-04	7.7E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C195	2.0E-06	4.7E-07	3.6E-08	2.8E-04	7.7E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C196	2.0E-06	4.7E-07	3.6E-08	2.8E-04	7.7E-05	5.9E-06
6.5E+05	5.9E+06	Cabin	C197	2.0E-06	4.7E-07	3.5E-08	2.8E-04	7.6E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C198	2.0E-06	4.7E-07	3.6E-08	2.8E-04	7.6E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C199	2.0E-06	4.6E-07	3.6E-08	2.8E-04	7.6E-05	5.8E-06

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
6.5E+05	5.9E+06	Cabin	C200	2.0E-06	4.6E-07	3.6E-08	2.8E-04	7.6E-05	5.8E-06
6.5E+05	5.9E+06	Cabin	C201	1.7E-06	4.0E-07	2.7E-08	2.3E-04	6.9E-05	4.2E-06
6.5E+05	5.9E+06	Cabin	C202	1.7E-06	4.1E-07	2.7E-08	2.3E-04	7.0E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C203	1.7E-06	4.1E-07	2.8E-08	2.4E-04	6.9E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C204	1.7E-06	4.1E-07	2.8E-08	2.4E-04	6.8E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C205	1.7E-06	4.1E-07	2.8E-08	2.4E-04	6.8E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C206	1.7E-06	4.0E-07	2.7E-08	2.4E-04	6.3E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C207	1.7E-06	4.0E-07	2.7E-08	2.4E-04	6.4E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C208	1.7E-06	4.0E-07	2.7E-08	2.4E-04	6.4E-05	4.2E-06
6.5E+05	5.9E+06	Cabin	C209	1.7E-06	4.0E-07	2.7E-08	2.4E-04	6.6E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C210	1.7E-06	4.0E-07	2.7E-08	2.4E-04	6.6E-05	4.3E-06
6.5E+05	5.9E+06	Cabin	C211	1.7E-06	3.9E-07	2.7E-08	2.3E-04	6.4E-05	4.2E-06
6.5E+05	5.9E+06	Cabin	C212	1.7E-06	3.9E-07	2.6E-08	2.3E-04	6.4E-05	4.1E-06
6.5E+05	5.9E+06	Cabin	C213	1.6E-06	3.5E-07	2.5E-08	2.2E-04	5.4E-05	3.9E-06
6.5E+05	5.9E+06	Cabin	C214	1.7E-06	3.4E-07	2.5E-08	2.2E-04	5.1E-05	4.0E-06
6.5E+05	5.9E+06	Cabin	C215	1.6E-06	3.2E-07	2.4E-08	2.1E-04	5.0E-05	3.9E-06
6.5E+05	5.9E+06	Cabin	C216	1.6E-06	3.2E-07	2.4E-08	2.1E-04	5.0E-05	3.8E-06
6.5E+05	5.9E+06	Cabin	C217	1.6E-06	3.2E-07	2.4E-08	2.1E-04	4.8E-05	3.7E-06
6.5E+05	5.9E+06	Cabin	C218	1.6E-06	3.3E-07	2.3E-08	2.1E-04	5.0E-05	3.6E-06
6.5E+05	5.9E+06	Cabin	C219	1.6E-06	3.4E-07	2.4E-08	2.1E-04	5.3E-05	3.7E-06
6.5E+05	5.9E+06	Cabin	C220	1.6E-06	3.4E-07	2.4E-08	2.2E-04	5.3E-05	3.8E-06
6.5E+05	5.9E+06	Cabin	C221	1.6E-06	3.8E-07	2.5E-08	2.2E-04	6.1E-05	3.9E-06
6.5E+05	5.9E+06	Cabin	C222	1.6E-06	3.7E-07	2.5E-08	2.2E-04	6.1E-05	3.8E-06
6.5E+05	5.9E+06	Cabin	C223	1.6E-06	3.6E-07	2.4E-08	2.2E-04	5.9E-05	3.7E-06
6.5E+05	5.9E+06	Cabin	C224	1.6E-06	3.6E-07	2.3E-08	2.1E-04	5.8E-05	3.6E-06
6.5E+05	5.9E+06	Cabin	C225	1.5E-06	3.5E-07	2.3E-08	2.0E-04	5.9E-05	3.5E-06
6.5E+05	5.9E+06	Cabin	C226	1.4E-06	3.3E-07	2.2E-08	1.9E-04	5.7E-05	3.3E-06
6.5E+05	5.9E+06	Cabin	C227	1.4E-06	3.4E-07	2.2E-08	1.9E-04	5.7E-05	3.3E-06
6.5E+05	5.9E+06	Cabin	C228	1.4E-06	3.4E-07	2.2E-08	1.9E-04	5.7E-05	3.3E-06
6.5E+05	5.9E+06	Cabin	C229	1.4E-06	3.4E-07	2.1E-08	1.9E-04	5.6E-05	3.3E-06
6.5E+05	5.9E+06	Cabin	C230	1.4E-06	3.3E-07	2.1E-08	1.9E-04	5.6E-05	3.2E-06
6.5E+05	5.9E+06	Cabin	C231	1.4E-06	3.3E-07	2.1E-08	1.9E-04	5.4E-05	3.2E-06
6.5E+05	5.9E+06	Cabin	C232	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.2E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C233	1.3E-06	3.1E-07	1.9E-08	1.8E-04	5.1E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C234	1.3E-06	3.2E-07	1.9E-08	1.8E-04	5.2E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C235	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.2E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C236	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.2E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C237	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.2E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C238	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.3E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C239	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.3E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C240	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.4E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C241	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.4E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C242	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.3E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C243	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.3E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C244	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.4E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C245	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.4E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C246	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.5E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C247	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.4E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C248	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.4E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C249	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.4E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C250	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.5E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C251	1.3E-06	3.2E-07	2.0E-08	1.8E-04	5.5E-05	3.1E-06
6.6E+05	5.9E+06	Cabin	C252	1.3E-06	3.1E-07	2.1E-08	1.9E-04	5.2E-05	3.3E-06
6.5E+05	5.9E+06	Cabin	C253	1.5E-06	3.1E-07	2.1E-08	2.2E-04	4.4E-05	3.3E-06
6.5E+05	5.9E+06	Cabin	C254	1.3E-06	2.8E-07	2.0E-08	1.7E-04	4.4E-05	3.2E-06
6.5E+05	5.9E+06	Cabin	C255	1.4E-06	2.8E-07	2.0E-08	1.9E-04	4.2E-05	3.2E-06

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
6.5E+05	5.9E+06	Cabin	C256	1.3E-06	2.7E-07	2.0E-08	1.8E-04	4.0E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C257	1.3E-06	2.7E-07	2.0E-08	1.8E-04	4.0E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C258	1.3E-06	2.7E-07	1.9E-08	1.8E-04	4.0E-05	3.1E-06
6.5E+05	5.9E+06	Cabin	C259	1.3E-06	2.7E-07	1.9E-08	1.8E-04	3.9E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C260	1.3E-06	2.7E-07	1.9E-08	1.8E-04	3.9E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C261	1.3E-06	2.6E-07	1.9E-08	1.7E-04	3.9E-05	3.0E-06
6.5E+05	5.9E+06	Cabin	C262	1.3E-06	2.6E-07	1.9E-08	1.7E-04	3.8E-05	2.9E-06
6.5E+05	5.9E+06	Cabin	C263	1.2E-06	2.6E-07	1.8E-08	1.7E-04	3.9E-05	2.9E-06
6.5E+05	5.9E+06	Cabin	C264	1.2E-06	2.5E-07	1.7E-08	1.6E-04	3.6E-05	2.7E-06
6.5E+05	5.9E+06	Cabin	C265	1.2E-06	2.3E-07	1.7E-08	1.6E-04	3.7E-05	2.8E-06
6.5E+05	5.9E+06	Cabin	C266	1.1E-06	2.2E-07	1.7E-08	1.5E-04	3.6E-05	2.6E-06
6.5E+05	5.9E+06	Cabin	C267	1.1E-06	2.3E-07	1.6E-08	1.4E-04	3.6E-05	2.6E-06
6.5E+05	5.9E+06	Cabin	C268	9.2E-07	2.1E-07	1.4E-08	1.2E-04	3.2E-05	2.2E-06
6.5E+05	5.9E+06	Cabin	C269	8.8E-07	2.0E-07	1.3E-08	1.2E-04	3.1E-05	2.1E-06
6.5E+05	5.9E+06	Cabin	C270	1.0E-06	2.0E-07	1.5E-08	1.3E-04	3.2E-05	2.4E-06
6.5E+05	5.9E+06	Cabin	C271	9.9E-07	2.0E-07	1.5E-08	1.3E-04	3.1E-05	2.3E-06
6.5E+05	5.9E+06	Cabin	C272	9.8E-07	2.0E-07	1.4E-08	1.3E-04	3.0E-05	2.3E-06
6.5E+05	5.9E+06	Cabin	C273	9.5E-07	1.9E-07	1.4E-08	1.3E-04	2.9E-05	2.2E-06
6.5E+05	5.9E+06	Cabin	C274	9.2E-07	1.8E-07	1.3E-08	1.2E-04	2.9E-05	2.1E-06
6.6E+05	5.9E+06	Cabin	C275	8.8E-07	1.8E-07	1.3E-08	1.2E-04	2.7E-05	2.0E-06
6.6E+05	5.9E+06	Cabin	C276	8.3E-07	1.8E-07	1.2E-08	1.1E-04	2.7E-05	1.8E-06
6.6E+05	5.9E+06	Cabin	C277	8.2E-07	1.8E-07	1.2E-08	1.1E-04	2.6E-05	1.8E-06
6.6E+05	5.9E+06	Cabin	C278	8.0E-07	1.6E-07	1.1E-08	1.1E-04	2.4E-05	1.7E-06
6.6E+05	5.9E+06	Cabin	C279	8.0E-07	1.6E-07	1.1E-08	1.1E-04	2.4E-05	1.7E-06
6.6E+05	5.9E+06	Cabin	C280	7.8E-07	1.5E-07	1.1E-08	1.0E-04	2.3E-05	1.7E-06
6.6E+05	5.9E+06	Cabin	C281	7.6E-07	1.4E-07	9.6E-09	9.7E-05	2.2E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C282	7.5E-07	1.3E-07	9.5E-09	9.7E-05	2.2E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C283	7.5E-07	1.3E-07	9.4E-09	9.6E-05	2.2E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C284	7.5E-07	1.3E-07	9.3E-09	9.6E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C285	7.5E-07	1.3E-07	9.2E-09	9.6E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C286	7.5E-07	1.3E-07	9.2E-09	9.5E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C287	7.5E-07	1.3E-07	9.1E-09	9.5E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C288	7.4E-07	1.3E-07	9.0E-09	9.5E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C289	7.4E-07	1.3E-07	8.9E-09	9.4E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C290	7.4E-07	1.3E-07	8.9E-09	9.4E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C291	7.3E-07	1.3E-07	8.7E-09	9.3E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C292	7.3E-07	1.3E-07	8.7E-09	9.3E-05	2.1E-05	1.3E-06
6.6E+05	5.9E+06	Cabin	C293	7.2E-07	1.2E-07	8.3E-09	9.1E-05	2.0E-05	1.3E-06
6.6E+05	5.9E+06	Cabin	C294	7.1E-07	1.2E-07	8.1E-09	9.0E-05	2.0E-05	1.2E-06
6.6E+05	5.9E+06	Cabin	C295	7.1E-07	1.2E-07	8.0E-09	9.0E-05	1.9E-05	1.2E-06
6.6E+05	5.9E+06	Cabin	C296	7.1E-07	1.2E-07	8.1E-09	9.0E-05	2.0E-05	1.3E-06
6.6E+05	5.9E+06	Cabin	C297	7.1E-07	1.2E-07	8.2E-09	9.1E-05	2.0E-05	1.3E-06
6.6E+05	5.9E+06	Cabin	C298	7.1E-07	1.2E-07	8.3E-09	9.1E-05	2.0E-05	1.3E-06
6.6E+05	5.9E+06	Cabin	C299	7.4E-07	1.3E-07	9.0E-09	9.4E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C300	7.4E-07	1.4E-07	9.3E-09	9.6E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C301	7.5E-07	1.4E-07	9.4E-09	9.6E-05	2.1E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C302	7.5E-07	1.4E-07	9.7E-09	9.7E-05	2.1E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C303	7.5E-07	1.5E-07	9.8E-09	9.7E-05	2.1E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C304	7.5E-07	1.5E-07	9.8E-09	9.7E-05	2.1E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C305	7.5E-07	1.5E-07	9.9E-09	9.8E-05	2.1E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C306	7.4E-07	1.5E-07	9.7E-09	9.7E-05	2.2E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C307	7.4E-07	1.5E-07	9.6E-09	9.6E-05	2.2E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C308	7.4E-07	1.5E-07	9.7E-09	9.7E-05	2.2E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C309	7.4E-07	1.5E-07	9.6E-09	9.6E-05	2.2E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C310	7.2E-07	1.5E-07	9.4E-09	9.5E-05	2.3E-05	1.5E-06
6.6E+05	5.9E+06	Cabin	C311	7.1E-07	1.5E-07	9.1E-09	9.3E-05	2.2E-05	1.4E-06

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
6.6E+05	5.9E+06	Cabin	C312	7.3E-07	1.5E-07	9.3E-09	9.4E-05	2.2E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C313	7.2E-07	1.5E-07	9.3E-09	9.4E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C314	7.3E-07	1.5E-07	9.3E-09	9.4E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C315	7.2E-07	1.5E-07	9.2E-09	9.4E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C316	7.2E-07	1.4E-07	9.2E-09	9.3E-05	2.1E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C317	7.2E-07	1.4E-07	9.1E-09	9.3E-05	2.0E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C318	7.2E-07	1.4E-07	9.1E-09	9.3E-05	2.0E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C319	7.2E-07	1.4E-07	9.0E-09	9.3E-05	2.0E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C320	7.2E-07	1.4E-07	8.9E-09	9.3E-05	1.9E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C321	7.0E-07	1.2E-07	7.9E-09	8.9E-05	1.9E-05	1.2E-06
6.6E+05	5.9E+06	Cabin	C322	6.9E-07	1.1E-07	7.8E-09	8.8E-05	1.9E-05	1.2E-06
6.6E+05	5.9E+06	Cabin	C323	6.9E-07	1.1E-07	7.8E-09	8.8E-05	1.8E-05	1.2E-06
6.5E+05	5.9E+06	Cabin	C324	8.3E-07	1.8E-07	1.2E-08	1.1E-04	2.8E-05	1.8E-06
6.6E+05	5.9E+06	Cabin	C325	6.4E-07	1.6E-07	8.9E-09	9.0E-05	2.6E-05	1.4E-06
6.6E+05	5.9E+06	Cabin	C326	5.5E-07	1.1E-07	5.9E-09	7.0E-05	1.7E-05	9.0E-07
6.6E+05	5.9E+06	Cabin	C327	5.4E-07	1.1E-07	5.9E-09	6.9E-05	1.6E-05	8.9E-07
6.6E+05	5.9E+06	Cabin	C328	5.4E-07	1.1E-07	5.8E-09	6.8E-05	1.6E-05	8.7E-07
6.6E+05	5.9E+06	Cabin	C329	5.1E-07	9.4E-08	5.2E-09	6.4E-05	1.4E-05	7.7E-07
6.6E+05	5.9E+06	Cabin	C330	5.0E-07	9.1E-08	5.0E-09	6.3E-05	1.4E-05	7.4E-07
6.6E+05	5.9E+06	Cabin	C331	4.5E-07	8.2E-08	4.5E-09	5.9E-05	1.3E-05	6.7E-07
6.6E+05	5.9E+06	Cabin	C332	4.5E-07	8.0E-08	4.4E-09	5.8E-05	1.2E-05	6.6E-07
6.5E+05	5.9E+06	Cabin	C333	5.4E-06	2.2E-06	1.3E-07	1.0E-03	3.8E-04	2.3E-05
6.5E+05	5.9E+06	Cabin	C334	4.8E-06	2.1E-06	1.3E-07	9.3E-04	4.0E-04	2.2E-05
6.4E+05	5.9E+06	Cabin	C335	9.4E-06	2.0E-06	2.0E-07	2.3E-03	4.4E-04	3.8E-05
6.4E+05	5.9E+06	Cabin	C336	1.8E-05	5.1E-06	4.0E-07	4.6E-03	9.9E-04	7.8E-05
6.4E+05	5.9E+06	Cabin	C337	8.6E-06	3.1E-06	1.9E-07	2.2E-03	5.9E-04	3.5E-05
6.4E+05	5.8E+06	Cabin	C338	6.4E-06	2.3E-06	1.7E-07	1.6E-03	4.7E-04	3.0E-05
6.4E+05	5.8E+06	Cabin	C339	3.5E-06	1.4E-06	7.1E-08	5.8E-04	1.8E-04	1.1E-05
6.4E+05	5.8E+06	Cabin	C340	2.6E-06	7.2E-07	4.6E-08	4.1E-04	1.1E-04	6.9E-06
6.3E+05	5.9E+06	Cabin	C341	1.2E-05	3.5E-06	2.3E-07	1.9E-03	5.0E-04	2.5E-05
6.3E+05	5.9E+06	Cabin	C342	1.0E-05	3.2E-06	2.0E-07	1.7E-03	4.5E-04	2.3E-05
6.3E+05	5.9E+06	Cabin	C343	8.8E-06	3.1E-06	1.7E-07	1.8E-03	5.7E-04	2.5E-05
6.3E+05	5.9E+06	Cabin	C344	8.0E-06	2.6E-06	1.6E-07	9.6E-04	2.8E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C345	7.7E-06	2.5E-06	1.6E-07	9.6E-04	2.9E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C346	7.0E-06	2.6E-06	1.4E-07	1.4E-03	6.0E-04	2.1E-05
6.3E+05	5.9E+06	Cabin	C347	9.0E-06	3.4E-06	1.9E-07	2.2E-03	6.4E-04	2.9E-05
6.3E+05	5.9E+06	Cabin	C348	9.0E-06	3.4E-06	1.9E-07	2.3E-03	6.4E-04	2.9E-05
6.4E+05	5.9E+06	Cabin	C349	9.0E-06	3.6E-06	2.0E-07	2.3E-03	7.7E-04	3.5E-05
6.4E+05	5.9E+06	Cabin	C350	9.0E-06	3.6E-06	2.0E-07	2.4E-03	7.6E-04	3.5E-05
6.4E+05	5.9E+06	Cabin	C351	9.0E-06	3.6E-06	2.0E-07	2.4E-03	7.7E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C352	9.2E-06	3.5E-06	1.9E-07	2.5E-03	7.0E-04	3.2E-05
6.4E+05	5.9E+06	Cabin	C353	9.0E-06	3.6E-06	2.0E-07	2.4E-03	7.7E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C354	9.0E-06	3.5E-06	2.0E-07	2.5E-03	7.7E-04	3.4E-05
6.3E+05	5.9E+06	Cabin	C355	8.9E-06	3.3E-06	1.8E-07	2.3E-03	7.0E-04	3.0E-05
6.4E+05	5.9E+06	Cabin	C356	9.7E-06	3.7E-06	2.1E-07	2.6E-03	9.4E-04	4.1E-05
6.4E+05	5.9E+06	Cabin	C357	1.0E-05	3.9E-06	2.3E-07	2.6E-03	1.0E-03	4.5E-05
6.3E+05	5.9E+06	Cabin	C358	9.0E-06	3.4E-06	2.0E-07	2.4E-03	8.3E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C359	8.9E-06	3.4E-06	1.9E-07	2.4E-03	8.1E-04	3.4E-05
6.3E+05	5.9E+06	Cabin	C360	9.0E-06	3.4E-06	2.0E-07	2.4E-03	8.5E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C361	9.1E-06	3.5E-06	2.0E-07	2.4E-03	8.6E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C362	9.0E-06	3.4E-06	2.0E-07	2.4E-03	8.7E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C363	9.0E-06	3.4E-06	2.0E-07	2.4E-03	8.8E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C364	8.9E-06	3.4E-06	2.0E-07	2.3E-03	8.8E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C365	8.8E-06	3.4E-06	1.9E-07	2.3E-03	8.9E-04	3.5E-05
6.3E+05	5.9E+06	Cabin	C366	8.7E-06	3.4E-06	1.9E-07	2.2E-03	8.8E-04	3.4E-05
6.3E+05	5.9E+06	Cabin	C367	8.6E-06	3.3E-06	1.9E-07	2.1E-03	8.8E-04	3.4E-05

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
6.3E+05	5.9E+06	Cabin	C368	8.6E-06	3.3E-06	1.9E-07	2.1E-03	8.8E-04	3.4E-05
6.3E+05	5.9E+06	Cabin	C369	9.2E-06	3.6E-06	2.0E-07	2.3E-03	9.6E-04	3.9E-05
6.3E+05	5.9E+06	Cabin	C370	9.5E-06	3.8E-06	2.1E-07	2.5E-03	1.0E-03	4.1E-05
6.3E+05	5.9E+06	Cabin	C371	9.2E-06	3.5E-06	2.0E-07	2.4E-03	9.3E-04	3.8E-05
6.3E+05	5.9E+06	Cabin	C372	9.3E-06	3.6E-06	2.1E-07	2.5E-03	9.5E-04	3.9E-05
6.3E+05	5.9E+06	Cabin	C373	9.4E-06	3.6E-06	2.1E-07	2.5E-03	9.3E-04	3.9E-05
6.3E+05	5.9E+06	Cabin	C374	9.4E-06	3.6E-06	2.1E-07	2.5E-03	9.3E-04	3.8E-05
6.3E+05	5.9E+06	Cabin	C375	9.4E-06	3.6E-06	2.1E-07	2.5E-03	9.1E-04	3.8E-05
6.3E+05	5.9E+06	Cabin	C376	9.3E-06	3.5E-06	2.0E-07	2.5E-03	8.8E-04	3.7E-05
6.3E+05	5.9E+06	Cabin	C377	9.4E-06	3.6E-06	2.1E-07	2.5E-03	8.9E-04	3.8E-05
6.3E+05	5.9E+06	Cabin	C378	9.3E-06	3.6E-06	2.0E-07	2.5E-03	8.7E-04	3.7E-05
6.4E+05	5.9E+06	Cabin	C379	9.5E-06	3.7E-06	2.1E-07	2.5E-03	9.1E-04	3.9E-05
6.4E+05	5.9E+06	Cabin	C380	1.0E-05	4.0E-06	2.3E-07	2.7E-03	1.1E-03	4.6E-05
6.4E+05	5.9E+06	Cabin	C381	1.0E-05	3.9E-06	2.3E-07	2.6E-03	1.0E-03	4.4E-05
6.4E+05	5.9E+06	Cabin	C382	1.0E-05	3.9E-06	2.2E-07	2.5E-03	1.0E-03	4.3E-05
6.4E+05	5.9E+06	Cabin	C383	9.8E-06	3.8E-06	2.2E-07	2.5E-03	1.0E-03	4.2E-05
6.4E+05	5.9E+06	Cabin	C384	9.7E-06	3.8E-06	2.2E-07	2.5E-03	1.0E-03	4.2E-05
6.3E+05	5.9E+06	Cabin	C385	9.6E-06	3.7E-06	2.1E-07	2.4E-03	9.9E-04	4.1E-05
6.3E+05	5.9E+06	Cabin	C386	9.7E-06	3.7E-06	2.2E-07	2.5E-03	1.0E-03	4.2E-05
6.3E+05	5.9E+06	Cabin	C387	9.8E-06	3.8E-06	2.2E-07	2.5E-03	1.0E-03	4.2E-05
6.3E+05	5.9E+06	Cabin	C388	9.7E-06	3.8E-06	2.1E-07	2.5E-03	1.0E-03	4.2E-05
6.3E+05	5.9E+06	Cabin	C389	9.0E-06	3.6E-06	2.0E-07	2.2E-03	9.6E-04	3.7E-05
6.3E+05	5.9E+06	Cabin	C390	8.9E-06	3.5E-06	2.0E-07	2.2E-03	9.5E-04	3.7E-05
6.3E+05	5.9E+06	Cabin	C391	8.7E-06	3.5E-06	1.9E-07	2.2E-03	9.3E-04	3.6E-05
6.3E+05	5.9E+06	Cabin	C392	5.8E-06	2.2E-06	1.1E-07	8.2E-04	2.9E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C393	5.6E-06	2.2E-06	1.0E-07	7.6E-04	2.7E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C394	5.5E-06	2.2E-06	1.0E-07	7.5E-04	2.6E-04	1.0E-05
6.3E+05	5.9E+06	Cabin	C395	5.4E-06	2.1E-06	9.8E-08	7.3E-04	2.5E-04	1.0E-05
6.3E+05	5.9E+06	Cabin	C396	5.4E-06	2.1E-06	9.7E-08	7.2E-04	2.5E-04	9.8E-06
6.3E+05	5.9E+06	Cabin	C397	5.4E-06	2.1E-06	9.6E-08	7.1E-04	2.4E-04	9.8E-06
6.3E+05	5.9E+06	Cabin	C398	5.3E-06	2.1E-06	9.5E-08	7.1E-04	2.4E-04	9.8E-06
6.3E+05	5.9E+06	Cabin	C399	5.3E-06	2.1E-06	9.4E-08	6.9E-04	2.3E-04	9.4E-06
6.3E+05	5.9E+06	Cabin	C400	5.2E-06	2.0E-06	9.2E-08	6.8E-04	2.3E-04	9.2E-06
6.3E+05	5.9E+06	Cabin	C401	5.2E-06	2.0E-06	9.3E-08	6.8E-04	2.3E-04	9.5E-06
6.3E+05	5.9E+06	Cabin	C402	5.0E-06	2.0E-06	8.9E-08	6.5E-04	2.2E-04	8.9E-06
6.3E+05	5.9E+06	Cabin	C403	5.0E-06	2.0E-06	8.7E-08	6.4E-04	2.1E-04	8.7E-06
6.3E+05	5.9E+06	Cabin	C404	4.9E-06	1.9E-06	8.6E-08	6.4E-04	2.1E-04	8.7E-06
6.3E+05	5.9E+06	Cabin	C405	4.9E-06	1.9E-06	8.5E-08	6.3E-04	2.1E-04	8.6E-06
6.3E+05	5.9E+06	Cabin	C406	4.8E-06	1.9E-06	8.3E-08	6.2E-04	2.0E-04	8.4E-06
6.3E+05	5.9E+06	Cabin	C407	4.7E-06	1.8E-06	8.1E-08	6.1E-04	2.0E-04	8.2E-06
6.3E+05	5.9E+06	Cabin	C408	4.7E-06	1.8E-06	7.9E-08	6.0E-04	2.0E-04	8.1E-06
6.3E+05	5.9E+06	Cabin	C409	4.6E-06	1.8E-06	7.9E-08	6.0E-04	1.9E-04	8.1E-06
6.3E+05	5.9E+06	Cabin	C410	4.6E-06	1.8E-06	7.9E-08	6.0E-04	2.0E-04	8.3E-06
6.3E+05	5.9E+06	Cabin	C411	4.3E-06	1.6E-06	7.4E-08	5.6E-04	1.8E-04	8.1E-06
6.3E+05	5.9E+06	Cabin	C412	4.7E-06	1.7E-06	8.4E-08	6.3E-04	2.1E-04	9.6E-06
6.3E+05	5.9E+06	Cabin	C413	4.8E-06	1.6E-06	8.7E-08	7.2E-04	2.3E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C414	4.8E-06	1.6E-06	8.8E-08	7.3E-04	2.4E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C415	4.8E-06	1.5E-06	8.6E-08	7.8E-04	2.6E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C416	4.4E-06	1.3E-06	7.3E-08	7.3E-04	2.2E-04	1.0E-05
6.3E+05	5.9E+06	Cabin	C417	4.6E-06	1.3E-06	7.7E-08	8.0E-04	2.5E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C418	4.6E-06	1.3E-06	7.7E-08	8.0E-04	2.5E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C419	4.6E-06	1.3E-06	7.7E-08	8.1E-04	2.5E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C420	4.5E-06	1.3E-06	7.5E-08	8.1E-04	2.5E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C421	4.5E-06	1.3E-06	7.5E-08	8.2E-04	2.5E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C422	4.5E-06	1.3E-06	7.5E-08	8.3E-04	2.5E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C423	4.5E-06	1.3E-06	7.6E-08	8.5E-04	2.6E-04	1.2E-05

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
6.3E+05	5.9E+06	Cabin	C424	4.6E-06	1.3E-06	7.6E-08	8.7E-04	2.7E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C425	4.6E-06	1.3E-06	7.7E-08	8.8E-04	2.7E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C426	4.6E-06	1.3E-06	7.7E-08	8.9E-04	2.7E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C427	4.6E-06	1.3E-06	7.7E-08	9.0E-04	2.8E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C428	4.5E-06	1.3E-06	7.6E-08	8.7E-04	2.7E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C429	4.5E-06	1.3E-06	7.5E-08	8.6E-04	2.6E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C430	4.5E-06	1.3E-06	7.5E-08	8.5E-04	2.6E-04	1.2E-05
6.3E+05	5.9E+06	Cabin	C431	4.5E-06	1.3E-06	7.4E-08	8.3E-04	2.5E-04	1.1E-05
6.3E+05	5.9E+06	Cabin	C432	5.9E-06	2.2E-06	1.2E-07	1.1E-03	4.3E-04	1.8E-05
6.4E+05	5.9E+06	Cabin	C433	3.5E-06	9.1E-07	6.2E-08	7.7E-04	2.2E-04	1.0E-05
6.3E+05	5.9E+06	Cabin	C434	3.2E-06	6.6E-07	3.7E-08	3.9E-04	8.9E-05	4.1E-06
6.3E+05	5.9E+06	Cabin	C435	4.3E-06	1.0E-06	4.6E-08	4.1E-04	1.1E-04	4.7E-06
6.3E+05	5.9E+06	Cabin	C436	4.3E-06	1.1E-06	4.5E-08	4.0E-04	1.1E-04	4.5E-06
6.3E+05	5.9E+06	Cabin	C437	4.6E-06	1.2E-06	4.6E-08	4.0E-04	1.2E-04	4.5E-06
6.3E+05	5.9E+06	Cabin	C438	4.5E-06	1.1E-06	4.6E-08	4.0E-04	1.1E-04	4.5E-06
6.3E+05	5.9E+06	Cabin	C439	4.5E-06	1.1E-06	4.6E-08	4.0E-04	1.1E-04	4.5E-06
6.3E+05	5.9E+06	Cabin	C440	4.4E-06	1.1E-06	4.5E-08	4.0E-04	1.1E-04	4.5E-06
6.3E+05	5.9E+06	Cabin	C441	4.4E-06	1.1E-06	4.5E-08	4.0E-04	1.1E-04	4.5E-06
6.3E+05	5.9E+06	Cabin	C442	5.4E-06	1.7E-06	6.8E-08	6.0E-04	1.5E-04	5.9E-06
6.3E+05	5.9E+06	Cabin	C443	5.3E-06	1.6E-06	6.7E-08	5.9E-04	1.4E-04	5.9E-06
6.3E+05	5.9E+06	Cabin	C444	5.2E-06	1.6E-06	6.8E-08	6.1E-04	1.5E-04	6.0E-06
6.3E+05	5.9E+06	Cabin	C445	5.4E-06	1.3E-06	6.8E-08	5.9E-04	1.4E-04	6.1E-06
6.3E+05	5.9E+06	Cabin	C446	5.4E-06	1.2E-06	6.9E-08	5.9E-04	1.4E-04	6.1E-06
6.3E+05	5.9E+06	Cabin	C447	5.5E-06	1.2E-06	7.0E-08	5.9E-04	1.4E-04	6.1E-06
6.3E+05	5.9E+06	Cabin	C448	5.6E-06	1.2E-06	7.1E-08	5.8E-04	1.4E-04	6.2E-06
6.2E+05	5.9E+06	Cabin	C449	4.3E-06	1.1E-06	4.3E-08	3.8E-04	1.1E-04	4.2E-06
6.4E+05	5.9E+06	Cabin	C450	2.8E-05	7.9E-06	4.8E-07	7.7E-03	2.1E-03	9.3E-05
6.4E+05	5.9E+06	Cabin	C451	3.0E-05	8.9E-06	4.9E-07	8.2E-03	2.4E-03	9.6E-05
6.4E+05	5.9E+06	Cabin	C452	3.4E-05	1.2E-05	5.9E-07	9.6E-03	3.2E-03	1.3E-04
6.2E+05	5.9E+06	Cabin	C453	3.9E-06	1.5E-06	4.9E-08	4.4E-04	1.6E-04	4.7E-06
6.2E+05	5.9E+06	Cabin	C454	3.6E-06	1.3E-06	4.4E-08	4.1E-04	1.1E-04	4.4E-06
6.2E+05	5.9E+06	Cabin	C455	3.6E-06	1.3E-06	4.5E-08	4.1E-04	1.1E-04	4.4E-06
6.2E+05	5.9E+06	Cabin	C456	6.6E-06	1.7E-06	5.9E-08	5.4E-04	1.5E-04	5.0E-06
6.3E+05	5.9E+06	Cabin	C457	9.0E-06	3.4E-06	2.0E-07	2.4E-03	8.1E-04	3.4E-05
6.4E+05	5.9E+06	Cabin	C458	2.0E-05	5.2E-06	4.4E-07	5.1E-03	1.3E-03	9.8E-05
6.4E+05	5.9E+06	Cabin	C459	2.2E-05	5.3E-06	4.0E-07	5.9E-03	1.3E-03	9.0E-05
6.4E+05	5.9E+06	Cabin	C460	1.8E-05	4.1E-06	4.0E-07	4.6E-03	8.3E-04	8.7E-05
6.4E+05	5.9E+06	Cabin	C461	9.2E-06	3.4E-06	3.0E-07	2.7E-03	9.4E-04	4.2E-05
6.5E+05	5.9E+06	Cabin	C462	5.4E-06	2.4E-06	1.4E-07	1.2E-03	4.9E-04	2.6E-05
6.3E+05	5.9E+06	Cabin (Quebec)	C463	8.4E-06	2.2E-06	7.1E-08	5.8E-04	1.6E-04	5.9E-06
6.3E+05	5.9E+06	Cabin (Quebec)	C464	1.0E-05	2.7E-06	8.7E-08	6.4E-04	1.8E-04	6.7E-06
6.3E+05	5.9E+06	Cabin (Quebec)	C465	9.2E-06	3.3E-06	9.5E-08	8.4E-04	1.7E-04	6.9E-06
6.3E+05	5.9E+06	Cabin (Quebec)	C466	1.2E-05	4.8E-06	1.6E-07	1.0E-03	2.8E-04	1.0E-05
6.3E+05	5.9E+06	Cabin (Quebec)	C467	1.5E-05	3.5E-06	2.2E-07	1.0E-03	2.9E-04	1.1E-05
6.3E+05	5.9E+06	Cabin (Quebec)	C468	1.4E-05	3.9E-06	1.3E-07	8.4E-04	2.3E-04	9.0E-06
6.3E+05	5.9E+06	Cabin (Quebec)	C469	1.5E-05	3.4E-06	2.1E-07	1.1E-03	3.0E-04	1.1E-05
6.2E+05	5.9E+06	Cabin (Quebec)	C470	4.0E-06	1.3E-06	5.4E-08	4.3E-04	1.4E-04	5.4E-06
6.2E+05	5.9E+06	Cabin (Quebec)	C471	4.0E-06	1.2E-06	4.2E-08	4.0E-04	1.2E-04	4.4E-06
6.2E+05	5.9E+06	Cabin (Quebec)	C472	3.9E-06	1.1E-06	4.2E-08	4.0E-04	1.2E-04	4.2E-06
6.2E+05	5.9E+06	Cabin (Quebec)	C473	5.0E-06	1.3E-06	5.3E-08	4.9E-04	1.4E-04	5.1E-06
6.2E+05	5.8E+06	Cabin (Quebec)	C474	3.9E-06	1.3E-06	6.2E-08	4.4E-04	1.1E-04	5.2E-06
6.2E+05	5.8E+06	Cabin (Quebec)	C475	4.1E-06	1.4E-06	6.5E-08	4.5E-04	1.2E-04	5.4E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C476	4.5E-06	1.5E-06	7.3E-08	4.9E-04	1.3E-04	5.8E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C477	4.8E-06	1.6E-06	8.1E-08	5.1E-04	1.4E-04	6.1E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C478	4.8E-06	1.6E-06	8.1E-08	5.1E-04	1.4E-04	6.1E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C479	4.8E-06	1.7E-06	8.2E-08	5.0E-04	1.4E-04	6.1E-06

Table 2-8: Air Quality Screening for Polycyclic Aromatic Hydrocarbons (PAH)

Easting	Northing	Receptor Type	HHRA ID	1 hr BAP TPE (ug/m^3)	24 hr BAP TPE (ug/m^3)	Annual BAP TPE (ug/m^3)	1 hr Naphthalene (ug/m^3)	24 hr Naphthalene (ug/m^3)	Annual Naphthalene (ug/m^3)
			Screening Criteria ($\mu g/m^3$)	--	--	1.2E-04	500	--	3.1
6.3E+05	5.8E+06	Cabin (Quebec)	C480	5.3E-06	1.8E-06	9.1E-08	5.6E-04	1.7E-04	6.8E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C481	4.6E-06	1.5E-06	7.2E-08	4.9E-04	1.5E-04	5.9E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C482	4.9E-06	1.8E-06	8.6E-08	5.1E-04	1.5E-04	6.5E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C483	4.6E-06	1.6E-06	7.5E-08	4.5E-04	1.5E-04	6.2E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C484	4.4E-06	1.6E-06	6.9E-08	4.6E-04	1.5E-04	6.2E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C485	4.5E-06	1.6E-06	7.2E-08	4.8E-04	1.6E-04	6.5E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C486	4.7E-06	1.7E-06	7.8E-08	4.9E-04	1.6E-04	6.7E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C487	4.8E-06	1.7E-06	8.1E-08	4.9E-04	1.6E-04	6.8E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C488	4.8E-06	1.7E-06	8.0E-08	5.1E-04	1.7E-04	7.0E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C489	4.3E-06	1.6E-06	6.9E-08	5.0E-04	1.6E-04	6.8E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C490	3.9E-06	1.5E-06	6.5E-08	4.8E-04	1.6E-04	6.6E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C491	5.5E-06	2.1E-06	1.0E-07	6.3E-04	1.9E-04	8.3E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C492	5.7E-06	2.2E-06	1.1E-07	6.5E-04	1.9E-04	8.3E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C493	5.8E-06	2.2E-06	1.1E-07	6.7E-04	1.9E-04	8.3E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C494	4.5E-06	1.8E-06	8.3E-08	5.7E-04	1.9E-04	8.0E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C495	3.8E-06	1.6E-06	7.3E-08	5.1E-04	1.7E-04	7.4E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C496	5.1E-06	2.1E-06	9.7E-08	6.5E-04	2.1E-04	9.0E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C497	5.3E-06	2.1E-06	1.0E-07	6.4E-04	2.1E-04	9.0E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C498	5.3E-06	2.1E-06	1.0E-07	6.7E-04	2.2E-04	9.4E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C499	4.8E-06	2.0E-06	9.3E-08	6.3E-04	2.0E-04	8.8E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C500	5.1E-06	2.1E-06	1.0E-07	6.8E-04	2.2E-04	9.5E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C501	4.8E-06	2.2E-06	1.0E-07	6.7E-04	2.2E-04	9.8E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C502	4.1E-06	1.9E-06	8.9E-08	5.8E-04	2.0E-04	8.7E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C503	7.5E-06	3.1E-06	1.5E-07	7.7E-04	2.7E-04	1.2E-05
6.3E+05	5.8E+06	Cabin (Quebec)	C504	6.5E-06	2.8E-06	1.3E-07	7.2E-04	2.4E-04	1.1E-05
6.3E+05	5.8E+06	Cabin (Quebec)	C505	6.7E-06	2.9E-06	1.4E-07	7.6E-04	2.5E-04	1.2E-05
6.3E+05	5.8E+06	Cabin (Quebec)	C506	6.0E-06	2.6E-06	1.3E-07	7.2E-04	2.3E-04	1.1E-05
6.3E+05	5.8E+06	Cabin (Quebec)	C507	5.6E-06	2.5E-06	1.2E-07	7.1E-04	2.3E-04	1.1E-05
6.3E+05	5.8E+06	Cabin (Quebec)	C508	4.7E-06	2.2E-06	1.1E-07	6.6E-04	2.1E-04	1.0E-05
6.3E+05	5.8E+06	Cabin (Quebec)	C509	5.3E-06	2.4E-06	1.1E-07	6.5E-04	2.2E-04	1.0E-05
6.3E+05	5.8E+06	Cabin (Quebec)	C510	4.9E-06	2.3E-06	1.1E-07	6.4E-04	2.1E-04	9.7E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C511	4.5E-06	2.2E-06	1.0E-07	6.2E-04	2.0E-04	9.4E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C512	4.2E-06	2.1E-06	9.8E-08	6.1E-04	1.9E-04	9.3E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C513	4.3E-06	2.1E-06	9.8E-08	6.1E-04	1.9E-04	9.3E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C514	3.8E-06	1.9E-06	8.9E-08	5.7E-04	1.9E-04	8.7E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C515	3.4E-06	1.7E-06	8.0E-08	5.3E-04	1.7E-04	8.1E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C516	3.5E-06	1.8E-06	8.2E-08	5.4E-04	1.7E-04	8.2E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C517	3.6E-06	1.8E-06	8.7E-08	5.6E-04	1.8E-04	8.6E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C518	3.6E-06	1.8E-06	8.8E-08	5.6E-04	1.8E-04	8.8E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C519	3.3E-06	1.5E-06	8.4E-08	5.1E-04	1.7E-04	9.0E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C520	3.5E-06	1.6E-06	9.0E-08	5.4E-04	1.8E-04	9.4E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C521	3.7E-06	1.8E-06	9.4E-08	5.8E-04	1.9E-04	9.5E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C522	3.7E-06	1.9E-06	9.2E-08	5.8E-04	1.8E-04	9.1E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C523	3.7E-06	1.9E-06	9.2E-08	5.8E-04	1.8E-04	9.2E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C524	3.0E-06	1.3E-06	5.6E-08	4.0E-04	1.3E-04	6.1E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C525	3.2E-06	1.3E-06	5.7E-08	4.2E-04	1.4E-04	6.1E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C526	3.3E-06	1.3E-06	5.8E-08	4.3E-04	1.4E-04	6.2E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C527	3.5E-06	1.3E-06	5.7E-08	4.3E-04	1.4E-04	5.9E-06
6.3E+05	5.8E+06	Cabin (Quebec)	C528	2.9E-06	1.2E-06	5.2E-08	3.8E-04	1.3E-04	5.7E-06

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
			Maximum	824.2	**721.7**
			Maximum Location	LU12	LU12
635960	5857471	Previous Receptors (Alderon 2012)	L1	312.06	**273.3**
641590	5856650	Previous Receptors (Alderon 2012)	L2	454.55	**398.1**
643605	5861877	Closest Residences	R1	51.50	45.1
639817	5866611	Closest Residences	R2	47.51	41.6
629503	5851281	Closest Residences	R3	186.43	**163.3**
643660	5863077	Schools	S1	50.89	44.6
640302	5867360	Schools	S2	44.28	38.8
628698	5851350	Schools	S3/H2	164.25	**143.8**
638645	5868619	Hospitals	H1	40.10	35.1
641084	5860083	LU	LU1	190.25	**166.6**
640822	5853090	LU	LU2	181.82	**159.2**
644385	5853041	LU	LU3	101.07	**88.5**
634182	5862441	LU	LU4	154.23	**135.1**
633008	5862216	LU	LU5	168.89	**147.9**
638099	5858559	LU	LU6	210.81	**184.6**
637075	5847770	LU	LU7	105.68	**92.5**
640649	5848093	LU	LU8	95.35	**83.5**
643498	5844896	LU	LU9	59.94	**52.5**
642596	5841626	LU	LU10	51.68	45.3
636075	5858014	LU	LU11	252.85	**221.4**
631162	5855850	LU	LU12	824.19	**721.7**
631662	5848350	LU	LU13	171.98	**150.6**
632162	5845850	LU	LU14	85.48	**74.9**
635730	5849661	cabin	C1	136.32	**119.4**
636577	5858531	cabin	C2	227.05	**198.8**
636140	5858010	cabin	C3	246.30	**215.7**
636150	5857871	cabin	C4	259.43	**227.2**
636111	5857723	cabin	C5	267.07	**233.9**
636065	5857542	cabin	C6	281.24	**246.3**
636018	5857320	cabin	C7	300.66	**263.3**
636115	5857199	cabin	C8	324.42	**284.1**
636071	5857083	cabin	C9	328.06	**287.3**
636105	5856822	cabin	C10	310.65	**272.0**
636098	5856774	Cabin on Southwest shore of Long Lake	C11	325.07	**284.7**
636907	5856913	Cabin on South shore of Long Lake	C12 (MAX)	379.20	**332.1**
637468	5857501	cabin	C13	305.28	**267.3**
637586	5857770	cabin	C14	284.45	**249.1**
637560	5858030	cabin	C15	268.29	**234.9**
637559	5858098	cabin	C16	263.76	**231.0**
637382	5858387	cabin	C17	252.55	**221.2**
636439	5858885	cabin	C18	191.17	**167.4**
636532	5858958	cabin	C19	187.79	**164.4**
636641	5859177	cabin	C20	170.12	**149.0**
636587	5859379	cabin	C21	150.73	**132.0**
636606	5859083	cabin	C22	178.10	**156.0**
636333	5859399	cabin	C23	140.19	**122.8**
636210	5859591	cabin	C24	138.99	**121.7**
637527	5858534	cabin	C25	240.79	**210.9**
638188	5859443	cabin	C26	163.40	**143.1**
638031	5859903	cabin	C27	146.37	**128.2**
638118	5860165	cabin	C28	142.72	**125.0**
638095	5860245	cabin	C29	140.96	**123.4**
635722	5860584	cabin	C30	146.80	**128.6**
635612	5860422	cabin	C31	150.01	**131.4**
635465	5860366	cabin	C32	152.53	**133.6**
635190	5860556	cabin	C33	159.43	**139.6**
635188	5860635	cabin	C34	159.20	**139.4**
635168	5860785	cabin	C35	157.49	**137.9**
635180	5860828	cabin	C36	154.30	**135.1**
635148	5860858	cabin	C37	156.13	**136.7**
640778	5857817	cabin	C38	433.01	**379.2**
640792	5857910	cabin	C39	400.00	**350.3**
641137	5857913	cabin	C40	347.33	**304.2**
641364	5857725	cabin	C41	346.91	**303.8**

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
641817	5857027	cabin	C42	342.75	**300.1**
641845	5856814	cabin	C43	405.24	**354.9**
641912	5857277	cabin	C44	311.52	**272.8**
641840	5857280	cabin	C45	339.02	**296.9**
641870	5857362	cabin	C46	350.02	**306.5**
641637	5857345	cabin	C47	413.16	**361.8**
641560	5857425	cabin	C48	399.98	**350.3**
641454	5857455	cabin	C49	364.99	**319.6**
641550	5857525	cabin	C50	355.45	**311.3**
641466	5857605	cabin	C51	332.99	**291.6**
643367	5857533	cabin	C52	217.38	**190.4**
641285	5858131	cabin	C53	287.70	**251.9**
641270	5858280	cabin	C54	266.87	**233.7**
645508	5854970	cabin	C55	99.55	**87.2**
645337	5854863	cabin	C56	95.73	**83.8**
645280	5854855	cabin	C57	95.03	**83.2**
644937	5855135	cabin	C58	102.53	**89.8**
644879	5855382	cabin	C59	102.33	**89.6**
644973	5855439	cabin	C60	99.95	**87.5**
645128	5855811	cabin	C61	99.78	**87.4**
645033	5855931	cabin	C62	105.69	**92.6**
645036	5856103	cabin	C63	102.59	**89.8**
645180	5855879	cabin	C64	100.26	**87.8**
645330	5855813	cabin	C65	102.15	**89.4**
645506	5855706	cabin	C66	108.47	**95.0**
645632	5855645	cabin	C67	117.20	**102.6**
645590	5855519	cabin	C68	103.75	**90.9**
645598	5855459	cabin	C69	105.12	**92.1**
645662	5855286	cabin	C70	102.13	**89.4**
645835	5855153	cabin	C71	101.68	**89.0**
645976	5855021	cabin	C72	105.27	**92.2**
646064	5854763	cabin	C73	100.34	**87.9**
645907	5854390	cabin	C74	86.14	**75.4**
645885	5854242	cabin	C75	84.24	**73.8**
645737	5853966	cabin	C76	79.05	**69.2**
646109	5853232	cabin	C77	83.83	**73.4**
646092	5852876	cabin	C78	82.92	**72.6**
646044	5852660	cabin	C79	80.64	**70.6**
646428	5852634	cabin	C80	81.99	**71.8**
646459	5852650	cabin	C81	82.10	**71.9**
647491	5856467	cabin	C82	71.26	**62.4**
647943	5857121	cabin	C83	65.77	**57.6**
650541	5853616	cabin	C84	61.46	**53.8**
649585	5855076	cabin	C85	61.51	**53.9**
649478	5856416	cabin	C86	58.01	**50.8**
647046	5860524	cabin	C87	60.91	**53.3**
649298	5858934	cabin	C88	58.75	**51.5**
649221	5858590	cabin	C89	59.73	**52.3**
655939	5864862	cabin	C90	22.15	19.4
653216	5864965	cabin	C91	26.79	23.5
650592	5866521	cabin	C92	30.61	26.8
654383	5868124	cabin	C93	20.80	18.2
652330	5866689	cabin	C94	24.94	21.8
652553	5866833	cabin	C95	24.61	21.5
651537	5866940	cabin	C96	25.63	22.4
651680	5866973	cabin	C97	25.44	22.3
652221	5867025	cabin	C98	24.67	21.6
652077	5867051	cabin	C99	24.84	21.8
651961	5867112	cabin	C100	24.94	21.8
651905	5867245	cabin	C101	24.75	21.7
651748	5867033	cabin	C102	25.28	22.1
651696	5867089	cabin	C103	25.21	22.1
651770	5867105	cabin	C104	25.15	22.0
651729	5867176	cabin	C105	25.05	21.9
651644	5867146	cabin	C106	25.15	22.0
651661	5867207	cabin	C107	25.03	21.9

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
651724	5867266	cabin	C108	24.86	21.8
651643	5867292	cabin	C109	24.88	21.8
651530	5867285	cabin	C110	25.22	22.1
651454	5867326	cabin	C111	25.39	22.2
651429	5867373	cabin	C112	25.43	22.3
651534	5867399	cabin	C113	25.09	22.0
651493	5867516	cabin	C114	25.10	22.0
651408	5867479	cabin	C115	25.37	22.2
651364	5867523	cabin	C116	25.52	22.3
651278	5867742	cabin	C117	25.52	22.4
651350	5867873	cabin	C118	25.18	22.0
644982	5868164	cabin	C119	35.96	31.5
645736	5872547	cabin	C120	21.84	19.1
647298	5871617	cabin	C121	25.20	22.1
647380	5872093	cabin	C122	24.26	21.2
647567	5872814	cabin	C123	22.43	19.6
648994	5873411	cabin	C124	20.05	17.6
648810	5872842	cabin	C125	21.20	18.6
649250	5872924	cabin	C126	21.18	18.5
649691	5872831	cabin	C127	21.68	19.0
649454	5872485	cabin	C128	22.27	19.5
648506	5871449	cabin	C129	23.70	20.8
648477	5871383	cabin	C130	23.80	20.8
648480	5871299	cabin	C131	23.93	21.0
649256	5871272	cabin	C132	24.50	21.5
649219	5871153	cabin	C133	24.69	21.6
649040	5870831	cabin	C134	25.12	22.0
648373	5871125	cabin	C135	24.25	21.2
648315	5870872	cabin	C136	24.63	21.6
647828	5870049	cabin	C137	26.79	23.5
647878	5869444	cabin	C138	27.83	24.4
648314	5870737	cabin	C139	24.84	21.7
648272	5870692	cabin	C140	24.87	21.8
648269	5870647	cabin	C141	24.97	21.9
648258	5870593	cabin	C142	25.03	21.9
648264	5870554	cabin	C143	25.07	22.0
648270	5870506	cabin	C144	25.15	22.0
648272	5870458	cabin	C145	25.23	22.1
648265	5870409	cabin	C146	25.30	22.2
648284	5870335	cabin	C147	25.41	22.2
648252	5870309	cabin	C148	25.44	22.3
649181	5870379	cabin	C149	25.67	22.5
648970	5869837	cabin	C150	26.25	23.0
648958	5869792	cabin	C151	26.29	23.0
648936	5869728	cabin	C152	26.35	23.1
648920	5869646	cabin	C153	26.51	23.2
648852	5870349	cabin	C154	25.73	22.5
648843	5870252	cabin	C155	25.85	22.6
648898	5870384	cabin	C156	25.70	22.5
648951	5870402	cabin	C157	25.70	22.5
649025	5870559	cabin	C158	25.52	22.3
648631	5869828	cabin	C159	26.11	22.9
648642	5869878	cabin	C160	26.09	22.8
648651	5869930	cabin	C161	26.05	22.8
648642	5870001	cabin	C162	25.99	22.8
648638	5870052	cabin	C163	25.93	22.7
648632	5870102	cabin	C164	25.95	22.7
648640	5870160	cabin	C165	25.88	22.7
648630	5870277	cabin	C166	25.72	22.5
648618	5870215	cabin	C167	25.80	22.6
648594	5870174	cabin	C168	25.84	22.6
648572	5870134	cabin	C169	25.88	22.7
648562	5870092	cabin	C170	25.92	22.7
648563	5870003	cabin	C171	26.03	22.8
648562	5869933	cabin	C172	26.03	22.8
648542	5869871	cabin	C173	26.09	22.9

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
648509	5869939	cabin	C174	26.08	22.8
648495	5869806	cabin	C175	26.12	22.9
648497	5869710	cabin	C176	26.20	22.9
648450	5869788	cabin	C177	26.14	22.9
648394	5869829	cabin	C178	26.13	22.9
648333	5869845	cabin	C179	26.23	23.0
648183	5869654	cabin	C180	26.86	23.5
648163	5869723	cabin	C181	26.80	23.5
648128	5869768	cabin	C182	26.80	23.5
648100	5869845	cabin	C183	26.69	23.4
648110	5869905	cabin	C184	26.58	23.3
648153	5869932	cabin	C185	26.42	23.1
648059	5869943	cabin	C186	26.61	23.3
648034	5869998	cabin	C187	26.54	23.2
648094	5870000	cabin	C188	26.41	23.1
648089	5870035	cabin	C189	26.33	23.1
648087	5870095	cabin	C190	26.19	22.9
648099	5870138	cabin	C191	26.03	22.8
648165	5870013	cabin	C192	26.20	22.9
648175	5870059	cabin	C193	26.07	22.8
648198	5870103	cabin	C194	25.93	22.7
648206	5870040	cabin	C195	26.06	22.8
648201	5869958	cabin	C196	26.26	23.0
648259	5870043	cabin	C197	25.94	22.7
648249	5869959	cabin	C198	26.15	22.9
648277	5869977	cabin	C199	26.06	22.8
648280	5869924	cabin	C200	26.17	22.9
651945	5870271	cabin	C201	23.58	20.6
651677	5870154	cabin	C202	23.90	20.9
651358	5870320	cabin	C203	24.44	21.4
651367	5870393	cabin	C204	24.37	21.3
651356	5870439	cabin	C205	24.37	21.3
651157	5870971	cabin	C206	24.99	21.9
651172	5870889	cabin	C207	25.07	22.0
651287	5870887	cabin	C208	24.17	21.2
651278	5870756	cabin	C209	24.78	21.7
651334	5870667	cabin	C210	24.31	21.3
651541	5870880	cabin	C211	23.94	21.0
651555	5870971	cabin	C212	23.88	20.9
651664	5872079	cabin	C213	22.73	19.9
651168	5872216	cabin	C214	22.83	20.0
651309	5872616	cabin	C215	22.15	19.4
651406	5872687	cabin	C216	22.00	19.3
651702	5872788	cabin	C217	21.68	19.0
652123	5872653	cabin	C218	21.65	19.0
652137	5872385	cabin	C219	22.01	19.3
651902	5872256	cabin	C220	22.36	19.6
652139	5871372	cabin	C221	23.02	20.2
652202	5871434	cabin	C222	22.91	20.1
652479	5871780	cabin	C223	22.35	19.6
652688	5871967	cabin	C224	21.96	19.2
653634	5871447	cabin	C225	20.98	18.4
654237	5871709	cabin	C226	20.10	17.6
654126	5871774	cabin	C227	20.15	17.6
654058	5871822	cabin	C228	20.20	17.7
653897	5872230	cabin	C229	20.25	17.7
653958	5872375	cabin	C230	20.02	17.5
653813	5872764	cabin	C231	19.86	17.4
654316	5873211	cabin	C232	18.99	16.6
654464	5873391	cabin	C233	18.33	16.1
654568	5873147	cabin	C234	18.55	16.2
654435	5873112	cabin	C235	19.08	16.7
654502	5873072	cabin	C236	18.82	16.5
654560	5873037	cabin	C237	18.71	16.4
654417	5873018	cabin	C238	19.22	16.8
654533	5872976	cabin	C239	18.93	16.6

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
654475	5872843	cabin	C240	19.30	16.9
654527	5872824	cabin	C241	19.22	16.8
654585	5872884	cabin	C242	18.87	16.5
654712	5872759	cabin	C243	18.55	16.2
654603	5872652	cabin	C244	19.38	17.0
654615	5872495	cabin	C245	19.36	17.0
654701	5872347	cabin	C246	19.30	16.9
654827	5872301	cabin	C247	18.87	16.5
654883	5872208	cabin	C248	18.82	16.5
654891	5872150	cabin	C249	18.81	16.5
654759	5872177	cabin	C250	19.32	16.9
654788	5872127	cabin	C251	19.32	16.9
655144	5871118	cabin	C252	18.97	16.6
648102	5875979	cabin	C253	15.04	13.2
651945	5874721	cabin	C254	18.00	15.8
652653	5874100	cabin	C255	18.96	16.6
653035	5874384	cabin	C256	18.24	16.0
653048	5874439	cabin	C257	18.13	15.9
653058	5874488	cabin	C258	18.04	15.8
653088	5874541	cabin	C259	17.93	15.7
653119	5874586	cabin	C260	17.83	15.6
653053	5874685	cabin	C261	17.69	15.5
653419	5874771	cabin	C262	17.35	15.2
653624	5874867	cabin	C263	17.14	15.0
653740	5875312	cabin	C264	15.96	14.0
653331	5875587	cabin	C265	15.67	13.7
653431	5876074	cabin	C266	14.68	12.9
652687	5876590	cabin	C267	14.09	12.3
653006	5877664	cabin	C268	11.74	10.3
652913	5878002	cabin	C269	11.30	9.9
654087	5876771	cabin	C270	13.10	11.5
654390	5876812	cabin	C271	12.88	11.3
654516	5876861	cabin	C272	12.76	11.2
654613	5877129	cabin	C273	12.25	10.7
654712	5877345	cabin	C274	11.86	10.4
655194	5877509	cabin	C275	11.31	9.9
655948	5877716	cabin	C276	10.68	9.4
655845	5877809	cabin	C277	10.53	9.2
655662	5878268	cabin	C278	10.32	9.0
655612	5878362	cabin	C279	10.27	9.0
655714	5878551	cabin	C280	10.05	8.8
655750	5879082	cabin	C281	9.62	8.4
655705	5879176	cabin	C282	9.49	8.3
655698	5879229	cabin	C283	9.45	8.3
655692	5879276	cabin	C284	9.42	8.3
655687	5879312	cabin	C285	9.41	8.2
655663	5879335	cabin	C286	9.38	8.2
655586	5879390	cabin	C287	9.34	8.2
655568	5879451	cabin	C288	9.27	8.1
655536	5879531	cabin	C289	9.23	8.1
655510	5879565	cabin	C290	9.20	8.1
655522	5879635	cabin	C291	9.16	8.0
655470	5879667	cabin	C292	9.11	8.0
655759	5879806	cabin	C293	8.87	7.8
655849	5879887	cabin	C294	8.77	7.7
655904	5879874	cabin	C295	8.73	7.6
655920	5879833	cabin	C296	8.78	7.7
655937	5879788	cabin	C297	8.83	7.7
655959	5879743	cabin	C298	8.83	7.7
655981	5879336	cabin	C299	9.22	8.1
656134	5879093	cabin	C300	9.37	8.2
656122	5879037	cabin	C301	9.43	8.3
656200	5878850	cabin	C302	9.56	8.4
656222	5878811	cabin	C303	9.61	8.4
656264	5878773	cabin	C304	9.63	8.4
656283	5878750	cabin	C305	9.65	8.4

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
656569	5878718	cabin	C306	9.51	8.3
656610	5878724	cabin	C307	9.47	8.3
656672	5878658	cabin	C308	9.50	8.3
656727	5878687	cabin	C309	9.41	8.2
657116	5878638	cabin	C310	9.17	8.0
657218	5878747	cabin	C311	9.05	7.9
656827	5878816	cabin	C312	9.26	8.1
656811	5878856	cabin	C313	9.26	8.1
656761	5878872	cabin	C314	9.25	8.1
656749	5878923	cabin	C315	9.26	8.1
656727	5878962	cabin	C316	9.24	8.1
656706	5879002	cabin	C317	9.24	8.1
656675	5879036	cabin	C318	9.21	8.1
656652	5879085	cabin	C319	9.16	8.0
656636	5879131	cabin	C320	9.14	8.0
656387	5879799	cabin	C321	8.65	7.6
656370	5879851	cabin	C322	8.61	7.5
656353	5879896	cabin	C323	8.57	7.5
653229	5878711	cabin	C324	10.51	9.2
659194	5877695	cabin	C325	8.48	7.4
659742	5879642	cabin	C326	6.80	6.0
659782	5879684	cabin	C327	6.74	5.9
659872	5879695	cabin	C328	6.65	5.8
660349	5879906	cabin	C329	6.17	5.4
660518	5879947	cabin	C330	6.03	5.3
661421	5879718	cabin	C331	5.45	4.8
661493	5879729	cabin	C332	5.38	4.7
646105	5852102	cabin	C333	75.23	**65.9**
647139	5852170	cabin	C334	78.67	**68.9**
643788	5855912	cabin	C335	177.94	**155.8**
641867	5855100	cabin	C336	316.10	**276.8**
642951	5852301	cabin	C337	98.00	**85.8**
640185	5848135	cabin	C338	93.92	**82.2**
643735	5844087	cabin	C339	53.18	46.6
643567	5839358	cabin	C340	43.68	38.3
634702	5859483	cabin	C341	338.28	**296.2**
634666	5859995	cabin	C342	274.06	**240.0**
634659	5860951	cabin	C343	179.57	**157.3**
632662	5861641	cabin	C344	215.32	**188.6**
632659	5861856	cabin	C345	203.20	**177.9**
633647	5862664	cabin	C346	140.37	**122.9**
634888	5860864	cabin	C347	177.87	**155.8**
634890	5860888	cabin	C348	175.28	**153.5**
635091	5860937	cabin	C349	154.83	**135.6**
635065	5860944	cabin	C350	156.93	**137.4**
635052	5860976	cabin	C351	156.48	**137.0**
634970	5860936	cabin	C352	168.06	**147.2**
635023	5861008	cabin	C353	157.73	**138.1**
634957	5861081	cabin	C354	158.63	**138.9**
634815	5861127	cabin	C355	161.89	**141.8**
635036	5861316	cabin	C356	145.59	**127.5**
635162	5861326	cabin	C357	141.29	**123.7**
634845	5861354	cabin	C358	151.31	**132.5**
634799	5861381	cabin	C359	151.46	**132.6**
634807	5861446	cabin	C360	149.03	**130.5**
634799	5861486	cabin	C361	147.91	**129.5**
634775	5861537	cabin	C362	145.88	**127.7**
634754	5861592	cabin	C363	148.55	**130.1**
634742	5861622	cabin	C364	149.73	**131.1**
634700	5861717	cabin	C365	153.40	**134.3**
634648	5861759	cabin	C366	157.47	**137.9**
634612	5861830	cabin	C367	159.23	**139.4**
634602	5861867	cabin	C368	159.33	**139.5**
634794	5861748	cabin	C369	145.09	**127.1**
634894	5861777	cabin	C370	132.46	**116.0**
634797	5861656	cabin	C371	144.83	**126.8**

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
634842	5861619	cabin	C372	142.26	**124.6**
634856	5861562	cabin	C373	144.37	**126.4**
634874	5861521	cabin	C374	145.17	**127.1**
634872	5861484	cabin	C375	146.75	**128.5**
634889	5861408	cabin	C376	147.57	**129.2**
634927	5861378	cabin	C377	147.21	**128.9**
634931	5861326	cabin	C378	148.57	**130.1**
635001	5861307	cabin	C379	146.86	**128.6**
635178	5861389	cabin	C380	138.83	**121.6**
635129	5861415	cabin	C381	138.78	**121.5**
635078	5861447	cabin	C382	138.29	**121.1**
635041	5861481	cabin	C383	138.19	**121.0**
635007	5861513	cabin	C384	139.10	**121.8**
634975	5861552	cabin	C385	138.59	**121.4**
634966	5861604	cabin	C386	137.64	**120.5**
634965	5861650	cabin	C387	135.83	**118.9**
634933	5861729	cabin	C388	133.76	**117.1**
634720	5861903	cabin	C389	149.17	**130.6**
634674	5861939	cabin	C390	152.79	**133.8**
634633	5861947	cabin	C391	155.82	**136.4**
631918	5864061	cabin	C392	101.97	**89.3**
631635	5864245	cabin	C393	98.03	**85.8**
631596	5864310	cabin	C394	97.42	**85.3**
631426	5864364	cabin	C395	98.76	**86.5**
631376	5864401	cabin	C396	98.49	**86.2**
631353	5864438	cabin	C397	97.86	**85.7**
631356	5864521	cabin	C398	95.84	**83.9**
631202	5864478	cabin	C399	98.51	**86.3**
631123	5864530	cabin	C400	97.72	**85.6**
631228	5864629	cabin	C401	94.41	**82.7**
630947	5864638	cabin	C402	95.71	**83.8**
630884	5864669	cabin	C403	94.55	**82.8**
630852	5864739	cabin	C404	93.14	**81.6**
630795	5864783	cabin	C405	91.82	**80.4**
630714	5864851	cabin	C406	89.69	**78.5**
630606	5864913	cabin	C407	86.79	**76.0**
630537	5864985	cabin	C408	84.77	**74.2**
630525	5865056	cabin	C409	83.92	**73.5**
630640	5865177	cabin	C410	83.83	**73.4**
630567	5865763	cabin	C411	74.40	**65.1**
631282	5865426	cabin	C412	76.38	**66.9**
632004	5865578	cabin	C413	69.77	**61.1**
632080	5865528	cabin	C414	70.33	**61.6**
632587	5865628	cabin	C415	62.66	**54.9**
632732	5866318	cabin	C416	53.57	46.9
632922	5866042	cabin	C417	55.63	**48.7**
632958	5866077	cabin	C418	55.13	**48.3**
633002	5866062	cabin	C419	55.19	**48.3**
633121	5866206	cabin	C420	53.07	46.5
633171	5866177	cabin	C421	53.14	46.5
633224	5866191	cabin	C422	52.69	46.1
633281	5866125	cabin	C423	53.09	46.5
633337	5866101	cabin	C424	52.96	46.4
633366	5866083	cabin	C425	52.95	46.4
633424	5866069	cabin	C426	52.62	46.1
633441	5866043	cabin	C427	52.77	46.2
633416	5866144	cabin	C428	51.88	45.4
633382	5866155	cabin	C429	52.02	45.6
633337	5866176	cabin	C430	52.13	45.6
633263	5866223	cabin	C431	52.11	45.6
633042	5864004	cabin	C432	102.32	**89.6**
635709	5867706	cabin	C433	45.99	40.3
625388	5863092	cabin	C434	75.65	**66.2**
625920	5861156	cabin	C435	90.44	**79.2**
625442	5861111	cabin	C436	89.12	**78.0**
625549	5860833	cabin	C437	95.09	**83.3**

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
625534	5860895	cabin	C438	93.99	**82.3**
625503	5860935	cabin	C439	93.07	**81.5**
625491	5860984	cabin	C440	91.92	**80.5**
625463	5861044	cabin	C441	90.71	**79.4**
627494	5859339	cabin	C442	148.36	**129.9**
627568	5859552	cabin	C443	131.58	**115.2**
627722	5859592	cabin	C444	135.78	**118.9**
627868	5860070	cabin	C445	139.47	**122.1**
627927	5860110	cabin	C446	139.20	**121.9**
627972	5860154	cabin	C447	137.49	**120.4**
628037	5860189	cabin	C448	141.11	**123.6**
624767	5861052	cabin	C449	85.53	**74.9**
636109	5858269	cabin	C450	231.55	**202.8**
636117	5858111	cabin	C451	234.91	**205.7**
636305	5857911	cabin	C452	273.56	**239.6**
623261	5854417	cabin	C453	67.07	**58.7**
622652	5855438	cabin	C454	64.19	**56.2**
622708	5855457	cabin	C455	65.12	**57.0**
624826	5857667	cabin	C456	136.94	**119.9**
634870	5861276	cabin	C457	152.93	**133.9**
636578	5855889	cabin	#N/A	355.12	**311.0**
638207	5859662	cabin	C458	147.24	**128.9**
640974	5858285	cabin	C459	251.60	**220.3**
641865	5856903	East Shore of Riordan Lake	C460	401.09	**351.2**
636813	5855953	cabin	#N/A	369.66	**323.7**
636896	5855893	cabin	#N/A	366.73	**321.1**
636974	5855802	cabin	#N/A	358.97	**314.3**
637481	5854722	cabin	#N/A	287.19	**251.5**
635118	5851125	cabin	C461	197.39	**172.9**
635057	5848931	cabin	#N/A	121.47	**106.4**
634306	5848286	cabin	#N/A	101.46	**88.9**
646196	5852986	cabin	C462	83.87	**73.4**
625475	5857021	cabin	C463	169.08	**148.1**
626098	5856799	cabin	C464	198.98	**174.2**
627564	5858039	cabin	C465	216.26	**189.4**
629357	5857727	cabin	C466	318.66	**279.1**
630419	5858921	Cabin in Quebec	C467	425.47	**372.6**
626642	5855576	cabin	C468	213.40	**186.9**
630232	5858750	cabin	C469	423.14	**370.5**
623764	5852692	cabin	C470	66.10	**57.9**
623459	5850433	cabin	C471	60.68	**53.1**
623460	5850000	cabin	C472	58.80	**51.5**
624604	5850547	cabin	C473	77.52	**67.9**
624617	5847632	cabin	C474	62.81	**55.0**
624830	5847971	cabin	C475	68.15	**59.7**
625323	5848229	cabin	C476	71.75	**62.8**
625741	5848075	cabin	C477	71.15	**62.3**
625759	5847941	cabin	C478	70.70	**61.9**
625815	5847804	cabin	C479	70.27	**61.5**
626223	5849126	cabin	C480	86.15	**75.4**
625431	5849151	cabin	C481	88.03	**77.1**
626474	5847197	cabin	C482	64.35	**56.4**
626396	5845965	cabin	C483	57.51	**50.4**
626683	5845314	cabin	C484	53.76	**47.1**
626999	5845577	cabin	C485	56.74	**49.7**
627003	5846179	cabin	C486	61.30	**53.7**
626961	5846463	cabin	C487	62.90	**55.1**
627273	5846354	cabin	C488	63.79	**55.9**
627718	5845172	cabin	C489	51.04	44.7
628038	5844373	cabin	C490	46.98	41.1
628284	5848046	cabin	C491	84.30	**73.8**
628253	5848298	cabin	C492	90.60	**79.3**
628223	5848529	cabin	C493	94.34	**82.6**
628578	5846400	cabin	C494	68.29	**59.8**
629041	5844898	cabin	C495	59.43	**52.0**
629002	5847706	cabin	C496	78.94	**69.1**

Table 2-9: 1-Hour Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria (µg/m^3)	47
				Maximum 1-hr PM10 Concentration (ug/m^3)	1 hr Silica (ug/m^3)
628885	5847934	cabin	C497	83.00	**72.7**
629224	5848000	cabin	C498	95.84	**83.9**
629015	5847203	cabin	C499	82.97	**72.7**
629458	5847746	cabin	C500	97.70	**85.6**
629868	5847537	cabin	C501	96.16	**84.2**
629643	5846372	cabin	C502	73.63	**64.5**
631620	5848435	cabin	C503	174.44	**152.8**
631326	5847777	cabin	C504	145.52	**127.4**
631880	5848045	cabin	C505	158.61	**138.9**
631823	5847529	cabin	C506	138.95	**121.7**
631882	5847345	cabin	C507	130.86	**114.6**
632025	5846766	cabin	C508	109.81	**96.2**
630856	5847060	cabin	C509	123.98	**108.6**
630937	5846640	cabin	C510	112.55	**98.6**
631031	5846241	cabin	C511	105.56	**92.4**
631246	5846057	cabin	C512	102.67	**89.9**
631149	5846104	cabin	C513	103.52	**90.7**
630186	5845857	cabin	C514	89.00	**77.9**
630521	5844827	cabin	C515	78.14	**68.4**
630500	5845041	cabin	C516	80.34	**70.4**
631014	5845317	cabin	C517	88.13	**77.2**
631354	5845361	cabin	C518	87.72	**76.8**
632084	5844943	cabin	C519	69.94	**61.2**
632227	5845440	cabin	C520	75.51	**66.1**
631938	5845809	cabin	C521	88.53	**77.5**
631611	5845632	cabin	C522	89.92939	**78.8**
631655	5845664	cabin	C523	89.8598175	**78.7**
628692	5842475	cabin	C524	43.5660095	38.2
628547	5842771	cabin	C525	43.9394989	38.5
628397	5843141	cabin	C526	44.8079796	39.2
627634	5843239	cabin	C527	40.0539398	35.1
628194	5841854	cabin	C528	39.7884903	34.8

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
			Maximum	22.53	**19.73**
			Maximum Location	LU12	LU12
635960	5857471	Previous Receptors (Alderon 2012)	L1	6.25	**5.5**
641590	5856650	Previous Receptors (Alderon 2012)	L2	6.59	**5.8**
643605	5861877	Closest Residences	R1	1.31	1.1
639817	5866611	Closest Residences	R2	1.03	0.9
629503	5851281	Closest Residences	R3	3.36	2.9
643660	5863077	Schools	S1	1.22	1.1
640302	5867360	Schools	S2	0.96	0.8
628698	5851350	Schools	S3/H2	2.84	2.5
638645	5868619	Hospitals	H1	0.73	0.6
641084	5860083	LU	LU1	4.38	**3.8**
640822	5853090	LU	LU2	5.48	**4.8**
644385	5853041	LU	LU3	2.47	2.2
634182	5862441	LU	LU4	1.70	1.5
633008	5862216	LU	LU5	2.17	1.9
638099	5858559	LU	LU6	5.16	**4.5**
637075	5847770	LU	LU7	2.20	1.9
640649	5848093	LU	LU8	2.50	2.2
643498	5844896	LU	LU9	1.17	1.0
642596	5841626	LU	LU10	0.81	0.7
636075	5858014	LU	LU11	5.09	**4.5**
631162	5855850	LU	LU12	22.53	**19.7**
631662	5848350	LU	LU13	2.48	2.2
632162	5845850	LU	LU14	1.52	1.3
635730	5849661	Cabin	C1	3.89	**3.4**
636577	5858531	Cabin	C2	4.85	**4.2**
636140	5858010	Cabin	C3	5.04	**4.4**
636150	5857871	Cabin	C4	5.31	**4.7**
636111	5857723	Cabin	C5	5.61	**4.9**
636065	5857542	Cabin	C6	5.94	**5.2**
636018	5857320	Cabin	C7	6.17	**5.4**
636115	5857199	Cabin	C8	6.45	**5.6**
636071	5857083	Cabin	C9	6.63	**5.8**
636105	5856822	Cabin	C10	6.91	**6.0**
636098	5856774	Cabin on Southwest shore of Long Lake	C11	7.23	**6.3**
636907	5856913	Cabin on South shore of Long Lake	C12 (MAX)	8.64	**7.6**
637468	5857501	Cabin	C13	6.76	**5.9**
637586	5857770	Cabin	C14	6.34	**5.6**
637560	5858030	Cabin	C15	5.69	**5.0**
637559	5858098	Cabin	C16	5.63	**4.9**
637382	5858387	Cabin	C17	5.33	**4.7**
636439	5858885	Cabin	C18	4.10	**3.6**
636532	5858958	Cabin	C19	4.19	**3.7**
636641	5859177	Cabin	C20	4.12	**3.6**
636587	5859379	Cabin	C21	3.84	**3.4**
636606	5859083	Cabin	C22	4.17	**3.7**
636333	5859399	Cabin	C23	3.44	3.0
636210	5859591	Cabin	C24	3.18	2.8
637527	5858534	Cabin	C25	5.05	**4.4**
638188	5859443	Cabin	C26	3.86	**3.4**
638031	5859903	Cabin	C27	3.57	**3.1**
638118	5860165	Cabin	C28	3.35	2.9
638095	5860245	Cabin	C29	3.30	2.9
635722	5860584	Cabin	C30	2.52	2.2
635612	5860422	Cabin	C31	2.46	2.2
635465	5860366	Cabin	C32	2.42	2.1
635190	5860556	Cabin	C33	2.37	2.1
635188	5860635	Cabin	C34	2.35	2.1
635168	5860785	Cabin	C35	2.30	2.0
635180	5860828	Cabin	C36	2.27	2.0
635148	5860858	Cabin	C37	2.27	2.0
640778	5857817	Cabin	C38	5.29	**4.6**

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
640792	5857910	Cabin	C39	5.12	**4.5**
641137	5857913	Cabin	C40	4.70	**4.1**
641364	5857725	Cabin	C41	4.84	**4.2**
641817	5857027	Cabin	C42	5.21	**4.6**
641845	5856814	Cabin	C43	5.54	**4.8**
641912	5857277	Cabin	C44	4.72	**4.1**
641840	5857280	Cabin	C45	4.84	**4.2**
641870	5857362	Cabin	C46	4.73	**4.1**
641637	5857345	Cabin	C47	5.09	**4.5**
641560	5857425	Cabin	C48	5.07	**4.4**
641454	5857455	Cabin	C49	5.11	**4.5**
641550	5857525	Cabin	C50	4.94	**4.3**
641466	5857605	Cabin	C51	4.88	**4.3**
643367	5857533	Cabin	C52	3.04	2.7
641285	5858131	Cabin	C53	4.34	**3.8**
641270	5858280	Cabin	C54	4.22	**3.7**
645508	5854970	Cabin	C55	1.89	1.7
645337	5854863	Cabin	C56	1.93	1.7
645280	5854855	Cabin	C57	1.95	1.7
644937	5855135	Cabin	C58	2.01	1.8
644879	5855382	Cabin	C59	1.98	1.7
644973	5855439	Cabin	C60	1.95	1.7
645128	5855811	Cabin	C61	1.86	1.6
645033	5855931	Cabin	C62	1.92	1.7
645036	5856103	Cabin	C63	1.92	1.7
645180	5855879	Cabin	C64	1.86	1.6
645330	5855813	Cabin	C65	1.86	1.6
645506	5855706	Cabin	C66	1.90	1.7
645632	5855645	Cabin	C67	1.97	1.7
645590	5855519	Cabin	C68	1.90	1.7
645598	5855459	Cabin	C69	1.94	1.7
645662	5855286	Cabin	C70	1.89	1.7
645835	5855153	Cabin	C71	1.84	1.6
645976	5855021	Cabin	C72	1.87	1.6
646064	5854763	Cabin	C73	1.85	1.6
645907	5854390	Cabin	C74	1.89	1.7
645885	5854242	Cabin	C75	1.93	1.7
645737	5853966	Cabin	C76	1.88	1.6
646109	5853232	Cabin	C77	1.88	1.6
646092	5852876	Cabin	C78	1.89	1.7
646044	5852660	Cabin	C79	1.89	1.7
646428	5852634	Cabin	C80	1.83	1.6
646459	5852650	Cabin	C81	1.83	1.6
647491	5856467	Cabin	C82	1.43	1.3
647943	5857121	Cabin	C83	1.30	1.1
650541	5853616	Cabin	C84	1.11	1.0
649585	5855076	Cabin	C85	1.14	1.0
649478	5856416	Cabin	C86	1.11	1.0
647046	5860524	Cabin	C87	1.12	1.0
649298	5858934	Cabin	C88	0.97	0.8
649221	5858590	Cabin	C89	1.01	0.9
655939	5864862	Cabin	C90	0.32	0.3
653216	5864965	Cabin	C91	0.40	0.4
650592	5866521	Cabin	C92	0.48	0.4
654383	5868124	Cabin	C93	0.32	0.3
652330	5866689	Cabin	C94	0.40	0.4
652553	5866833	Cabin	C95	0.39	0.3
651537	5866940	Cabin	C96	0.43	0.4
651680	5866973	Cabin	C97	0.42	0.4
652221	5867025	Cabin	C98	0.40	0.3
652077	5867051	Cabin	C99	0.40	0.4
651961	5867112	Cabin	C100	0.41	0.4
651905	5867245	Cabin	C101	0.41	0.4

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
651748	5867033	Cabin	C102	0.42	0.4
651696	5867089	Cabin	C103	0.42	0.4
651770	5867105	Cabin	C104	0.41	0.4
651729	5867176	Cabin	C105	0.41	0.4
651644	5867146	Cabin	C106	0.42	0.4
651661	5867207	Cabin	C107	0.42	0.4
651724	5867266	Cabin	C108	0.41	0.4
651643	5867292	Cabin	C109	0.41	0.4
651530	5867285	Cabin	C110	0.42	0.4
651454	5867326	Cabin	C111	0.42	0.4
651429	5867373	Cabin	C112	0.42	0.4
651534	5867399	Cabin	C113	0.41	0.4
651493	5867516	Cabin	C114	0.41	0.4
651408	5867479	Cabin	C115	0.42	0.4
651364	5867523	Cabin	C116	0.42	0.4
651278	5867742	Cabin	C117	0.42	0.4
651350	5867873	Cabin	C118	0.41	0.4
644982	5868164	Cabin	C119	0.63	0.6
645736	5872547	Cabin	C120	0.42	0.4
647298	5871617	Cabin	C121	0.38	0.3
647380	5872093	Cabin	C122	0.36	0.3
647567	5872814	Cabin	C123	0.34	0.3
648994	5873411	Cabin	C124	0.30	0.3
648810	5872842	Cabin	C125	0.31	0.3
649250	5872924	Cabin	C126	0.31	0.3
649691	5872831	Cabin	C127	0.31	0.3
649454	5872485	Cabin	C128	0.32	0.3
648506	5871449	Cabin	C129	0.36	0.3
648477	5871383	Cabin	C130	0.37	0.3
648480	5871299	Cabin	C131	0.37	0.3
649256	5871272	Cabin	C132	0.36	0.3
649219	5871153	Cabin	C133	0.36	0.3
649040	5870831	Cabin	C134	0.38	0.3
648373	5871125	Cabin	C135	0.38	0.3
648315	5870872	Cabin	C136	0.39	0.3
647828	5870049	Cabin	C137	0.42	0.4
647878	5869444	Cabin	C138	0.44	0.4
648314	5870737	Cabin	C139	0.39	0.3
648272	5870692	Cabin	C140	0.39	0.3
648269	5870647	Cabin	C141	0.39	0.3
648258	5870593	Cabin	C142	0.40	0.3
648264	5870554	Cabin	C143	0.40	0.3
648270	5870506	Cabin	C144	0.40	0.3
648272	5870458	Cabin	C145	0.40	0.4
648265	5870409	Cabin	C146	0.40	0.4
648284	5870335	Cabin	C147	0.40	0.4
648252	5870309	Cabin	C148	0.41	0.4
649181	5870379	Cabin	C149	0.39	0.3
648970	5869837	Cabin	C150	0.41	0.4
648958	5869792	Cabin	C151	0.41	0.4
648936	5869728	Cabin	C152	0.41	0.4
648920	5869646	Cabin	C153	0.42	0.4
648852	5870349	Cabin	C154	0.39	0.3
648843	5870252	Cabin	C155	0.40	0.3
648898	5870384	Cabin	C156	0.39	0.3
648951	5870402	Cabin	C157	0.39	0.3
649025	5870559	Cabin	C158	0.38	0.3
648631	5869828	Cabin	C159	0.42	0.4
648642	5869878	Cabin	C160	0.41	0.4
648651	5869930	Cabin	C161	0.41	0.4
648642	5870001	Cabin	C162	0.41	0.4
648638	5870052	Cabin	C163	0.41	0.4
648632	5870102	Cabin	C164	0.41	0.4

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
648640	5870160	Cabin	C165	0.40	0.4
648630	5870277	Cabin	C166	0.40	0.4
648618	5870215	Cabin	C167	0.40	0.4
648594	5870174	Cabin	C168	0.41	0.4
648572	5870134	Cabin	C169	0.41	0.4
648562	5870092	Cabin	C170	0.41	0.4
648563	5870003	Cabin	C171	0.41	0.4
648562	5869933	Cabin	C172	0.41	0.4
648542	5869871	Cabin	C173	0.42	0.4
648509	5869939	Cabin	C174	0.41	0.4
648495	5869806	Cabin	C175	0.42	0.4
648497	5869710	Cabin	C176	0.42	0.4
648450	5869788	Cabin	C177	0.42	0.4
648394	5869829	Cabin	C178	0.42	0.4
648333	5869845	Cabin	C179	0.42	0.4
648183	5869654	Cabin	C180	0.43	0.4
648163	5869723	Cabin	C181	0.43	0.4
648128	5869768	Cabin	C182	0.43	0.4
648100	5869845	Cabin	C183	0.43	0.4
648110	5869905	Cabin	C184	0.42	0.4
648153	5869932	Cabin	C185	0.42	0.4
648059	5869943	Cabin	C186	0.42	0.4
648034	5869998	Cabin	C187	0.42	0.4
648094	5870000	Cabin	C188	0.42	0.4
648089	5870035	Cabin	C189	0.42	0.4
648087	5870095	Cabin	C190	0.42	0.4
648099	5870138	Cabin	C191	0.42	0.4
648165	5870013	Cabin	C192	0.42	0.4
648175	5870059	Cabin	C193	0.42	0.4
648198	5870103	Cabin	C194	0.42	0.4
648206	5870040	Cabin	C195	0.42	0.4
648201	5869958	Cabin	C196	0.42	0.4
648259	5870043	Cabin	C197	0.42	0.4
648249	5869959	Cabin	C198	0.42	0.4
648277	5869977	Cabin	C199	0.42	0.4
648280	5869924	Cabin	C200	0.42	0.4
651945	5870271	Cabin	C201	0.33	0.3
651677	5870154	Cabin	C202	0.34	0.3
651358	5870320	Cabin	C203	0.34	0.3
651367	5870393	Cabin	C204	0.34	0.3
651356	5870439	Cabin	C205	0.34	0.3
651157	5870971	Cabin	C206	0.33	0.3
651172	5870889	Cabin	C207	0.34	0.3
651287	5870887	Cabin	C208	0.33	0.3
651278	5870756	Cabin	C209	0.33	0.3
651334	5870667	Cabin	C210	0.33	0.3
651541	5870880	Cabin	C211	0.32	0.3
651555	5870971	Cabin	C212	0.32	0.3
651664	5872079	Cabin	C213	0.30	0.3
651168	5872216	Cabin	C214	0.30	0.3
651309	5872616	Cabin	C215	0.29	0.3
651406	5872687	Cabin	C216	0.29	0.3
651702	5872788	Cabin	C217	0.28	0.2
652123	5872653	Cabin	C218	0.28	0.2
652137	5872385	Cabin	C219	0.28	0.2
651902	5872256	Cabin	C220	0.29	0.3
652139	5871372	Cabin	C221	0.30	0.3
652202	5871434	Cabin	C222	0.30	0.3
652479	5871780	Cabin	C223	0.29	0.3
652688	5871967	Cabin	C224	0.28	0.2
653634	5871447	Cabin	C225	0.28	0.2
654237	5871709	Cabin	C226	0.26	0.2
654126	5871774	Cabin	C227	0.26	0.2

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
654058	5871822	Cabin	C228	0.26	0.2
653897	5872230	Cabin	C229	0.26	0.2
653958	5872375	Cabin	C230	0.26	0.2
653813	5872764	Cabin	C231	0.25	0.2
654316	5873211	Cabin	C232	0.24	0.2
654464	5873391	Cabin	C233	0.23	0.2
654568	5873147	Cabin	C234	0.23	0.2
654435	5873112	Cabin	C235	0.24	0.2
654502	5873072	Cabin	C236	0.24	0.2
654560	5873037	Cabin	C237	0.24	0.2
654417	5873018	Cabin	C238	0.24	0.2
654533	5872976	Cabin	C239	0.24	0.2
654475	5872843	Cabin	C240	0.24	0.2
654527	5872824	Cabin	C241	0.24	0.2
654585	5872884	Cabin	C242	0.24	0.2
654712	5872759	Cabin	C243	0.24	0.2
654603	5872652	Cabin	C244	0.24	0.2
654615	5872495	Cabin	C245	0.25	0.2
654701	5872347	Cabin	C246	0.25	0.2
654827	5872301	Cabin	C247	0.24	0.2
654883	5872208	Cabin	C248	0.24	0.2
654891	5872150	Cabin	C249	0.24	0.2
654759	5872177	Cabin	C250	0.25	0.2
654788	5872127	Cabin	C251	0.25	0.2
655144	5871118	Cabin	C252	0.26	0.2
648102	5875979	Cabin	C253	0.25	0.2
651945	5874721	Cabin	C254	0.24	0.2
652653	5874100	Cabin	C255	0.25	0.2
653035	5874384	Cabin	C256	0.24	0.2
653048	5874439	Cabin	C257	0.24	0.2
653058	5874488	Cabin	C258	0.24	0.2
653088	5874541	Cabin	C259	0.23	0.2
653119	5874586	Cabin	C260	0.23	0.2
653053	5874685	Cabin	C261	0.23	0.2
653419	5874771	Cabin	C262	0.23	0.2
653624	5874867	Cabin	C263	0.22	0.2
653740	5875312	Cabin	C264	0.21	0.2
653331	5875587	Cabin	C265	0.21	0.2
653431	5876074	Cabin	C266	0.20	0.2
652687	5876590	Cabin	C267	0.19	0.2
653006	5877664	Cabin	C268	0.16	0.1
652913	5878002	Cabin	C269	0.16	0.1
654087	5876771	Cabin	C270	0.18	0.2
654390	5876812	Cabin	C271	0.18	0.2
654516	5876861	Cabin	C272	0.17	0.2
654613	5877129	Cabin	C273	0.17	0.1
654712	5877345	Cabin	C274	0.16	0.1
655194	5877509	Cabin	C275	0.16	0.1
655948	5877716	Cabin	C276	0.14	0.1
655845	5877809	Cabin	C277	0.14	0.1
655662	5878268	Cabin	C278	0.13	0.1
655612	5878362	Cabin	C279	0.13	0.1
655714	5878551	Cabin	C280	0.13	0.1
655750	5879082	Cabin	C281	0.12	0.1
655705	5879176	Cabin	C282	0.11	0.1
655698	5879229	Cabin	C283	0.11	0.1
655692	5879276	Cabin	C284	0.11	0.1
655687	5879312	Cabin	C285	0.11	0.1
655663	5879335	Cabin	C286	0.11	0.1
655586	5879390	Cabin	C287	0.11	0.1
655568	5879451	Cabin	C288	0.11	0.1
655536	5879531	Cabin	C289	0.11	0.1
655510	5879565	Cabin	C290	0.10	0.1

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
655522	5879635	Cabin	C291	0.10	0.1
655470	5879667	Cabin	C292	0.10	0.1
655759	5879806	Cabin	C293	0.10	0.1
655849	5879887	Cabin	C294	0.09	0.1
655904	5879874	Cabin	C295	0.09	0.1
655920	5879833	Cabin	C296	0.10	0.1
655937	5879788	Cabin	C297	0.10	0.1
655959	5879743	Cabin	C298	0.10	0.1
655981	5879336	Cabin	C299	0.11	0.1
656134	5879093	Cabin	C300	0.11	0.1
656122	5879037	Cabin	C301	0.11	0.1
656200	5878850	Cabin	C302	0.12	0.1
656222	5878811	Cabin	C303	0.12	0.1
656264	5878773	Cabin	C304	0.12	0.1
656283	5878750	Cabin	C305	0.12	0.1
656569	5878718	Cabin	C306	0.12	0.1
656610	5878724	Cabin	C307	0.12	0.1
656672	5878658	Cabin	C308	0.12	0.1
656727	5878687	Cabin	C309	0.12	0.1
657116	5878638	Cabin	C310	0.11	0.1
657218	5878747	Cabin	C311	0.11	0.1
656827	5878816	Cabin	C312	0.11	0.1
656811	5878856	Cabin	C313	0.11	0.1
656761	5878872	Cabin	C314	0.11	0.1
656749	5878923	Cabin	C315	0.11	0.1
656727	5878962	Cabin	C316	0.11	0.1
656706	5879002	Cabin	C317	0.11	0.1
656675	5879036	Cabin	C318	0.11	0.1
656652	5879085	Cabin	C319	0.11	0.1
656636	5879131	Cabin	C320	0.11	0.1
656387	5879799	Cabin	C321	0.09	0.1
656370	5879851	Cabin	C322	0.09	0.1
656353	5879896	Cabin	C323	0.09	0.1
653229	5878711	Cabin	C324	0.14	0.1
659194	5877695	Cabin	C325	0.10	0.1
659742	5879642	Cabin	C326	0.07	0.1
659782	5879684	Cabin	C327	0.07	0.1
659872	5879695	Cabin	C328	0.07	0.1
660349	5879906	Cabin	C329	0.06	0.1
660518	5879947	Cabin	C330	0.06	0.0
661421	5879718	Cabin	C331	0.05	0.0
661493	5879729	Cabin	C332	0.05	0.0
646105	5852102	Cabin	C333	1.85	1.6
647139	5852170	Cabin	C334	1.72	1.5
643788	5855912	Cabin	C335	2.75	2.4
641867	5855100	Cabin	C336	6.24	**5.5**
642951	5852301	Cabin	C337	3.07	2.7
640185	5848135	Cabin	C338	2.62	2.3
643735	5844087	Cabin	C339	1.02	0.9
643567	5839358	Cabin	C340	0.63	0.6
634702	5859483	Cabin	C341	3.83	**3.4**
634666	5859995	Cabin	C342	3.20	2.8
634659	5860951	Cabin	C343	2.28	2.0
632662	5861641	Cabin	C344	2.73	2.4
632659	5861856	Cabin	C345	2.58	2.3
633647	5862664	Cabin	C346	1.66	1.5
634888	5860864	Cabin	C347	2.33	2.0
634890	5860888	Cabin	C348	2.31	2.0
635091	5860937	Cabin	C349	2.21	1.9
635065	5860944	Cabin	C350	2.22	1.9
635052	5860976	Cabin	C351	2.21	1.9
634970	5860936	Cabin	C352	2.28	2.0
635023	5861008	Cabin	C353	2.21	1.9

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
634957	5861081	Cabin	C354	2.20	1.9
634815	5861127	Cabin	C355	2.18	1.9
635036	5861316	Cabin	C356	2.13	1.9
635162	5861326	Cabin	C357	2.15	1.9
634845	5861354	Cabin	C358	2.10	1.8
634799	5861381	Cabin	C359	2.09	1.8
634807	5861446	Cabin	C360	2.08	1.8
634799	5861486	Cabin	C361	2.07	1.8
634775	5861537	Cabin	C362	2.05	1.8
634754	5861592	Cabin	C363	2.04	1.8
634742	5861622	Cabin	C364	2.03	1.8
634700	5861717	Cabin	C365	1.99	1.7
634648	5861759	Cabin	C366	1.98	1.7
634612	5861830	Cabin	C367	1.95	1.7
634602	5861867	Cabin	C368	1.94	1.7
634794	5861748	Cabin	C369	2.01	1.8
634894	5861777	Cabin	C370	1.99	1.7
634797	5861656	Cabin	C371	2.03	1.8
634842	5861619	Cabin	C372	2.06	1.8
634856	5861562	Cabin	C373	2.08	1.8
634874	5861521	Cabin	C374	2.08	1.8
634872	5861484	Cabin	C375	2.09	1.8
634889	5861408	Cabin	C376	2.09	1.8
634927	5861378	Cabin	C377	2.11	1.8
634931	5861326	Cabin	C378	2.12	1.9
635001	5861307	Cabin	C379	2.13	1.9
635178	5861389	Cabin	C380	2.15	1.9
635129	5861415	Cabin	C381	2.12	1.9
635078	5861447	Cabin	C382	2.10	1.8
635041	5861481	Cabin	C383	2.08	1.8
635007	5861513	Cabin	C384	2.07	1.8
634975	5861552	Cabin	C385	2.05	1.8
634966	5861604	Cabin	C386	2.05	1.8
634965	5861650	Cabin	C387	2.03	1.8
634933	5861729	Cabin	C388	2.01	1.8
634720	5861903	Cabin	C389	1.93	1.7
634674	5861939	Cabin	C390	1.92	1.7
634633	5861947	Cabin	C391	1.92	1.7
631918	5864061	Cabin	C392	1.52	1.3
631635	5864245	Cabin	C393	1.44	1.3
631596	5864310	Cabin	C394	1.43	1.3
631426	5864364	Cabin	C395	1.40	1.2
631376	5864401	Cabin	C396	1.38	1.2
631353	5864438	Cabin	C397	1.37	1.2
631356	5864521	Cabin	C398	1.35	1.2
631202	5864478	Cabin	C399	1.35	1.2
631123	5864530	Cabin	C400	1.32	1.2
631228	5864629	Cabin	C401	1.31	1.1
630947	5864638	Cabin	C402	1.27	1.1
630884	5864669	Cabin	C403	1.25	1.1
630852	5864739	Cabin	C404	1.23	1.1
630795	5864783	Cabin	C405	1.21	1.1
630714	5864851	Cabin	C406	1.18	1.0
630606	5864913	Cabin	C407	1.14	1.0
630537	5864985	Cabin	C408	1.11	1.0
630525	5865056	Cabin	C409	1.10	1.0
630640	5865177	Cabin	C410	1.10	1.0
630567	5865763	Cabin	C411	1.01	0.9
631282	5865426	Cabin	C412	1.12	1.0
632004	5865578	Cabin	C413	1.06	0.9
632080	5865528	Cabin	C414	1.07	0.9
632587	5865628	Cabin	C415	0.99	0.9
632732	5866318	Cabin	C416	0.82	0.7

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
632922	5866042	Cabin	C417	0.85	0.7
632958	5866077	Cabin	C418	0.84	0.7
633002	5866062	Cabin	C419	0.84	0.7
633121	5866206	Cabin	C420	0.80	0.7
633171	5866177	Cabin	C421	0.81	0.7
633224	5866191	Cabin	C422	0.80	0.7
633281	5866125	Cabin	C423	0.81	0.7
633337	5866101	Cabin	C424	0.81	0.7
633366	5866083	Cabin	C425	0.81	0.7
633424	5866069	Cabin	C426	0.81	0.7
633441	5866043	Cabin	C427	0.81	0.7
633416	5866144	Cabin	C428	0.80	0.7
633382	5866155	Cabin	C429	0.80	0.7
633337	5866176	Cabin	C430	0.80	0.7
633263	5866223	Cabin	C431	0.79	0.7
633042	5864004	Cabin	C432	1.40	1.2
635709	5867706	Cabin	C433	0.71	0.6
625388	5863092	Cabin	C434	0.57	0.5
625920	5861156	Cabin	C435	0.73	0.6
625442	5861111	Cabin	C436	0.69	0.6
625549	5860833	Cabin	C437	0.73	0.6
625534	5860895	Cabin	C438	0.72	0.6
625503	5860935	Cabin	C439	0.71	0.6
625491	5860984	Cabin	C440	0.71	0.6
625463	5861044	Cabin	C441	0.70	0.6
627494	5859339	Cabin	C442	1.16	1.0
627568	5859552	Cabin	C443	1.13	1.0
627722	5859592	Cabin	C444	1.19	1.0
627868	5860070	Cabin	C445	1.22	1.1
627927	5860110	Cabin	C446	1.24	1.1
627972	5860154	Cabin	C447	1.25	1.1
628037	5860189	Cabin	C448	1.27	1.1
624767	5861052	Cabin	C449	0.68	0.6
636109	5858269	Cabin	C450	4.61	**4.0**
636117	5858111	Cabin	C451	4.85	**4.2**
636305	5857911	Cabin	C452	5.45	**4.8**
623261	5854417	Cabin	C453	0.58	0.5
622652	5855438	Cabin	C454	0.52	0.5
622708	5855457	Cabin	C455	0.52	0.5
624826	5857667	Cabin	C456	0.83	0.7
634870	5861276	Cabin	C457	2.12	1.9
638207	5859662	Cabin	C458	3.70	**3.2**
640974	5858285	Cabin	C459	4.48	**3.9**
641865	5856903	East Shore of Riordan Lake	C460	5.41	**4.7**
635118	5851125	Cabin	C461	5.47	**4.8**
646196	5852986	Cabin	C462	1.87	1.6
625475	5857021	Cabin	C463	0.98	0.9
626098	5856799	Cabin	C464	1.22	1.1
627564	5858039	Cabin	C465	1.68	1.5
629357	5857727	Cabin	C466	3.12	2.7
630419	5858921	Cabin in Quebec	C467	4.42	**3.9**
626642	5855576	Cabin	C468	1.73	1.5
630232	5858750	Cabin	C469	4.28	**3.8**
623764	5852692	Cabin	C470	0.65	0.6
623459	5850433	Cabin	C471	0.52	0.5
623460	5850000	Cabin	C472	0.53	0.5
624604	5850547	Cabin	C473	0.70	0.6
624617	5847632	Cabin	C474	0.84	0.7
624830	5847971	Cabin	C475	0.88	0.8
625323	5848229	Cabin	C476	1.00	0.9
625741	5848075	Cabin	C477	1.13	1.0
625759	5847941	Cabin	C478	1.14	1.0
625815	5847804	Cabin	C479	1.15	1.0

Table 2-10: Annual Air Quality Screening for Silica

Easting	Northing	Receptor Type	HHRA ID	95th Percentile of Silica Concentration (%)	87.57%
				Screening Criteria ($\mu g/m^3$)	3.1
				Maximum Annual PM10 Concentration (ug/m^3)	Annual Silica (ug/m^3)
626223	5849126	Cabin	C480	1.29	1.1
625431	5849151	Cabin	C481	0.99	0.9
626474	5847197	Cabin	C482	1.26	1.1
626396	5845965	Cabin	C483	1.07	0.9
626683	5845314	Cabin	C484	0.99	0.9
626999	5845577	Cabin	C485	1.03	0.9
627003	5846179	Cabin	C486	1.12	1.0
626961	5846463	Cabin	C487	1.17	1.0
627273	5846354	Cabin	C488	1.15	1.0
627718	5845172	Cabin	C489	0.97	0.9
628038	5844373	Cabin	C490	0.90	0.8
628284	5848046	Cabin	C491	1.50	1.3
628253	5848298	Cabin	C492	1.59	1.4
628223	5848529	Cabin	C493	1.65	1.4
628578	5846400	Cabin	C494	1.23	1.1
629041	5844898	Cabin	C495	1.07	0.9
629002	5847706	Cabin	C496	1.44	1.3
628885	5847934	Cabin	C497	1.49	1.3
629224	5848000	Cabin	C498	1.57	1.4
629015	5847203	Cabin	C499	1.40	1.2
629458	5847746	Cabin	C500	1.57	1.4
629868	5847537	Cabin	C501	1.62	1.4
629643	5846372	Cabin	C502	1.33	1.2
631620	5848435	Cabin	C503	2.52	2.2
631326	5847777	Cabin	C504	2.14	1.9
631880	5848045	Cabin	C505	2.35	2.1
631823	5847529	Cabin	C506	2.09	1.8
631882	5847345	Cabin	C507	2.01	1.8
632025	5846766	Cabin	C508	1.79	1.6
630856	5847060	Cabin	C509	1.80	1.6
630937	5846640	Cabin	C510	1.69	1.5
631031	5846241	Cabin	C511	1.59	1.4
631246	5846057	Cabin	C512	1.55	1.4
631149	5846104	Cabin	C513	1.56	1.4
630186	5845857	Cabin	C514	1.38	1.2
630521	5844827	Cabin	C515	1.23	1.1
630500	5845041	Cabin	C516	1.26	1.1
631014	5845317	Cabin	C517	1.36	1.2
631354	5845361	Cabin	C518	1.38	1.2
632084	5844943	Cabin	C519	1.32	1.2
632227	5845440	Cabin	C520	1.42	1.2
631938	5845809	Cabin	C521	1.50	1.3
631611	5845632	Cabin	C522	1.45	1.3
631655	5845664	Cabin	C523	1.46	1.3
628692	5842475	Cabin	C524	0.77	0.7
628547	5842771	Cabin	C525	0.78	0.7
628397	5843141	Cabin	C526	0.80	0.7
627634	5843239	Cabin	C527	0.77	0.7
628194	5841854	Cabin	C528	0.70	0.6

Prepared by: EE
QAQC'd by: TE

APPENDIX C

Soil Screening

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
L1	Ag	0	5.97E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E-03	3.7E-03	2.0E-04	Yes	7.7E+01	No
L1	Al	8114	5.15E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E+02	8.4E+03	5.0E-02	Yes	1.5E+04	No
L1	As	2.179	7.12E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-02	2.2E+00	1.0E-03	Yes	1.2E+01	No
L1	Ba	58.41	6.06E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E+00	6.2E+01	5.0E-04	Yes	6.8E+03	No
L1	Be	0.29	2.38E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	3.0E-01	2.0E-04	Yes	7.5E+01	No
L1	Bi	0	2.60E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-03	1.6E-03	1.0E-03	Yes	-	No
L1	Ca	0	3.42E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E+02	2.1E+02	5.0E-02	Yes	-	No
L1	Cd	0	1.54E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.5E-03	9.5E-03	1.0E-04	Yes	1.4E+00	No
L1	Ce	0	6.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E-01	3.7E-01	1.0E-02	Yes	-	No
L1	Co	5.96	2.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	6.1E+00	1.0E-04	Yes	2.2E+01	No
L1	Cr	36.75	1.73E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+00	3.8E+01	1.0E-03	Yes	2.2E+02	No
L1	Cs	0	3.77E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-02	2.3E-02	5.0E-02	No	-	No
L1	Cu	5.18	7.18E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-01	5.6E+00	5.0E-04	Yes	1.1E+03	No
L1	Fe	0	2.23E+03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+03	1.4E+03	5.0E-02	Yes	1.1E+04	No
L1	Ga	0	1.39E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.6E-02	8.6E-02	5.0E-02	Yes	-	No
L1	Ge	0	2.78E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-03	1.7E-03	5.0E-02	No	-	No
L1	Hf	0	2.69E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-02	1.7E-02	1.0E-01	No	-	No
L1	In	0	4.86E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-04	3.0E-04	5.0E-03	No	-	No
L1	K	0	2.12E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E+02	1.3E+02	2.0E-01	Yes	-	No
L1	La	0	2.99E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	1.8E-01	5.0E-01	No	7.8E-01	No
L1	Li	0	2.22E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-01	1.4E-01	2.0E-01	No	-	No
L1	Mg	0	2.76E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E+02	1.7E+02	5.0E-02	Yes	-	No
L1	Mn	673.2	4.90E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E+01	7.0E+02	1.0E-03	Yes	3.6E+02	Yes
L1	Mo	0.917	2.18E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	1.1E+00	5.0E-04	Yes	1.1E+02	No
L1	Na	0	9.15E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.7E+01	5.7E+01	5.0E-02	Yes	-	No
L1	Nb	0	9.14E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E-02	5.6E-02	1.0E-01	No	-	No
L1	Ni	15.15	6.15E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E-01	1.6E+01	5.0E-04	Yes	2.0E+02	No
L1	P	0	1.05E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E+00	6.5E+00	5.0E-02	Yes	-	No
L1	Pb	5.332	1.85E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	5.4E+00	1.0E-03	Yes	1.4E+02	No
L1	Rb	0	7.89E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.9E-01	4.9E-01	1.0E-01	Yes	-	No
L1	Re	0	1.04E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-05	6.4E-05	2.0E-03	No	-	No
L1	S	0	1.11E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.8E+01	6.8E+01	1.0E+02	No	-	No
L1	Sb	0	5.15E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-03	3.2E-03	2.0E-04	Yes	7.5E+00	No
L1	Sc	0	9.78E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.0E-02	6.0E-02	1.0E-01	No	-	No
L1	Se	0	2.12E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	1.3E-02	5.0E-04	Yes	8.0E+01	No
L1	Sn	0	1.72E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	1.1E-02	1.0E-03	Yes	9.4E+03	No
L1	Sr	0	1.58E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.8E-01	9.8E-01	1.0E-03	Yes	9.4E+03	No
L1	Ta	0	5.28E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-03	3.3E-03	5.0E-02	No	-	No
L1	Te	0	1.57E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.7E-04	9.7E-04	5.0E-02	No	-	No
L1	Th	0	8.23E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.1E-02	5.1E-02	1.0E-02	Yes	-	No
L1	Ti	0	3.08E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E+00	1.9E+00	5.0E+01	No	2.8E+04	No
L1	Tl	0.102	8.76E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-03	1.1E-01	5.0E-05	Yes	1.0E+00	No
L1	U	0.289	1.20E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.4E-02	3.6E-01	5.0E-05	Yes	2.3E+01	No
L1	V	30.95	1.92E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+00	3.2E+01	5.0E-03	Yes	3.9E+01	No
L1	W	0	2.72E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-02	1.7E-02	1.0E-01	No	-	No
L1	Y	0	2.52E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-01	1.6E-01	1.0E-01	Yes	-	No
L1	Zn	21.99	2.03E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E+00	2.3E+01	5.0E-03	Yes	1.0E+04	No
L1	Zr	0	1.02E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.3E-01	6.3E-01	5.0E-01	Yes	1.3E+00	No
L1	Hg	0	4.88E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-04	3.0E-04	5.0E-05	Yes	6.6E+00	No
L2	Ag	0	1.25E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.7E-04	7.7E-04	2.0E-04	Yes	7.7E+01	No
L2	Al	8114	1.08E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.7E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
L2	As	2.179	1.49E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.2E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
L2	Ba	58.41	1.27E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.9E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
L2	Be	0.29	5.00E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
L2	Bi	0	5.47E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-04	3.4E-04	1.0E-03	No	-	No
L2	Ca	0	7.19E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E+01	4.4E+01	5.0E-02	Yes	-	No
L2	Cd	0	3.24E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-03	2.0E-03	1.0E-04	Yes	1.4E+00	No
L2	Ce	0	1.27E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-02	7.8E-02	1.0E-02	Yes	-	No
L2	Co	5.96	4.29E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
L2	Cr	36.75	3.63E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
L2	Cs	0	7.91E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.9E-03	4.9E-03	5.0E-02	No	-	No
L2	Cu	5.18	1.51E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.3E-02	5.3E+00	5.0E-04	Yes	1.1E+03	No
L2	Fe	0	4.68E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E+02	2.9E+02	5.0E-02	Yes	1.1E+04	No
L2	Ga	0	2.91E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-02	1.8E-02	5.0E-02	No	-	No
L2	Ge	0	5.84E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-04	3.6E-04	5.0E-02	No	-	No
L2	Hf	0	5.64E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-03	3.5E-03	1.0E-01	No	-	No
L2	In	0	1.02E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.3E-05	6.3E-05	5.0E-03	No	-	No
L2	K	0	4.46E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E+01	2.8E+01	2.0E-01	Yes	-	No
L2	La	0	6.27E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-02	3.9E-02	5.0E-01	No	7.8E-01	No
L2	Li	0	4.65E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-02	2.9E-02	2.0E-01	No	-	No
L2	Mg	0	5.81E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E+01	3.6E+01	5.0E-02	Yes	-	No
L2	Mn	673.2	1.03E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
L2	Mo	0.917	4.59E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-02	9.5E-01	5.0E-04	Yes	1.1E+02	No
L2	Na	0	1.92E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+01	1.2E+01	5.0E-02	Yes	-	No
L2	Nb	0	1.92E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-02	1.2E-02	1.0E-01	No	-	No
L2	Ni	15.15	1.29E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.0E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
L2	P	0	2.20E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+00	1.4E+00	5.0E-02	Yes	-	No
L2	Pb	5.332	3.89E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
L2	Rb	0	1.66E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-01	1.0E-01	1.0E-01	Yes	-	No
L2	Re	0	2.18E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-05	1.3E-05	2.0E-03	No	-	No
L2	S	0	2.32E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+01	1.4E+01	1.0E+02	No	-	No
L2	Sb	0	1.08E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.7E-04	6.7E-04	2.0E-04	Yes	7.5E+00	No
L2	Sc	0	2.05E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	1.3E-02	1.0E-01	No	-	No
L2	Se	0	4.45E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-03	2.7E-03	5.0E-04	Yes	8.0E+01	No
L2	Sn	0	3.61E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-03	2.2E-03	1.0E-03	Yes	9.4E+03	No
L2	Sr	0	3.32E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-01	2.1E-01	1.0E-03	Yes	9.4E+03	No
L2	Ta	0	1.11E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.8E-04	6.8E-04	5.0E-02	No	-	No
L2	Te	0	3.29E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-04	2.0E-04	5.0E-02	No	-	No
L2	Th	0	1.73E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	1.1E-02	1.0E-02	Yes	-	No
L2	Ti	0	6.48E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-01	4.0E-01	5.0E+01	No	2.8E+04	No
L2	Tl	0.102	1.84E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.0E-01	5.0E-05	Yes	1.0E+00	No
L2	U	0.289	2.52E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-02	3.0E-01	5.0E-05	Yes	2.3E+01	No
L2	V	30.95	4.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
L2	W	0	5.72E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-03	3.5E-03	1.0E-01	No	-	No
L2	Y	0	5.29E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-02	3.3E-02	1.0E-01	No	-	No
L2	Zn	21.99	4.27E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
L2	Zr	0	2.15E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	1.3E-01	5.0E-01	No	1.3E+00	No
L2	Hg	0	1.02E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.3E-05	6.3E-05	5.0E-05	Yes	6.6E+00	No
R1	Ag	0	6.07E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E-04	3.8E-04	2.0E-04	Yes	7.7E+01	No
R1	Al	8114	5.24E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E+01	8.1E+03	5.0E-02	Yes	1.5E+04	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
R1	As	2.179	7.24E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
R1	Ba	58.41	6.16E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
R1	Be	0.29	2.42E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
R1	Bi	0	2.65E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-04	1.6E-04	1.0E-03	No	-	No
R1	Ca	0	3.48E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E+01	2.2E+01	5.0E-02	Yes	-	No
R1	Cd	0	1.57E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.7E-04	9.7E-04	1.0E-04	Yes	1.4E+00	No
R1	Ce	0	6.14E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E-02	3.8E-02	1.0E-02	Yes	-	No
R1	Co	5.96	2.08E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
R1	Cr	36.75	1.76E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
R1	Cs	0	3.83E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-03	2.4E-03	5.0E-02	No	-	No
R1	Cu	5.18	7.30E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
R1	Fe	0	2.27E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+02	1.4E+02	5.0E-02	Yes	1.1E+04	No
R1	Ga	0	1.41E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.7E-03	8.7E-03	5.0E-02	No	-	No
R1	Ge	0	2.83E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-04	1.7E-04	5.0E-02	No	-	No
R1	Hf	0	2.73E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-03	1.7E-03	1.0E-01	No	-	No
R1	In	0	4.94E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-05	3.1E-05	5.0E-03	No	-	No
R1	K	0	2.16E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E+01	1.3E+01	2.0E-01	Yes	-	No
R1	La	0	3.04E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-02	1.9E-02	5.0E-01	No	7.8E-01	No
R1	Li	0	2.25E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-02	1.4E-02	2.0E-01	No	-	No
R1	Mg	0	2.81E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E+01	1.7E+01	5.0E-02	Yes	-	No
R1	Mn	673.2	4.98E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
R1	Mo	0.917	2.22E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-02	9.3E-01	5.0E-04	Yes	1.1E+02	No
R1	Na	0	9.31E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.7E+00	5.7E+00	5.0E-02	Yes	-	No
R1	Nb	0	9.29E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.7E-03	5.7E-03	1.0E-01	No	-	No
R1	Ni	15.15	6.25E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
R1	P	0	1.07E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-01	6.6E-01	5.0E-02	Yes	-	No
R1	Pb	5.332	1.88E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-02	5.3E+00	1.0E-03	Yes	1.4E+02	No
R1	Rb	0	8.03E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-02	5.0E-02	1.0E-01	No	-	No
R1	Re	0	1.06E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-06	6.5E-06	2.0E-03	No	-	No
R1	S	0	1.12E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.9E+00	6.9E+00	1.0E+02	No	-	No
R1	Sb	0	5.23E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-04	3.2E-04	2.0E-04	Yes	7.5E+00	No
R1	Sc	0	9.95E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.1E-03	6.1E-03	1.0E-01	No	-	No
R1	Se	0	2.16E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-03	1.3E-03	5.0E-04	Yes	8.0E+01	No
R1	Sn	0	1.75E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.1E-03	1.0E-03	Yes	9.4E+03	No
R1	Sr	0	1.61E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.9E-02	9.9E-02	1.0E-03	Yes	9.4E+03	No
R1	Ta	0	5.37E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-04	3.3E-04	5.0E-02	No	-	No
R1	Te	0	1.59E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.8E-05	9.8E-05	5.0E-02	No	-	No
R1	Th	0	8.37E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-03	5.2E-03	1.0E-02	No	-	No
R1	Ti	0	3.14E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-01	1.9E-01	5.0E+01	No	2.8E+04	No
R1	Tl	0.102	8.91E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
R1	U	0.289	1.22E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.5E-03	3.0E-01	5.0E-05	Yes	2.3E+01	No
R1	V	30.95	1.95E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
R1	W	0	2.77E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-03	1.7E-03	1.0E-01	No	-	No
R1	Y	0	2.56E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-02	1.6E-02	1.0E-01	No	-	No
R1	Zn	21.99	2.07E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
R1	Zr	0	1.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-02	6.4E-02	5.0E-01	No	1.3E+00	No
R1	Hg	0	4.96E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-05	3.1E-05	5.0E-05	No	6.6E+00	No
R2	Ag	0	4.09E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-04	2.5E-04	2.0E-04	Yes	7.7E+01	No
R2	Al	8114	3.53E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E+01	8.1E+03	5.0E-02	Yes	1.5E+04	No
R2	As	2.179	4.87E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
R2	Ba	58.41	4.15E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
R2	Be	0.29	1.63E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
R2	Bi	0	1.78E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-04	1.1E-04	1.0E-03	No	-	No
R2	Ca	0	2.34E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+01	1.4E+01	5.0E-02	Yes	-	No
R2	Cd	0	1.06E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-04	6.5E-04	1.0E-04	Yes	1.4E+00	No
R2	Ce	0	4.13E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-02	2.6E-02	1.0E-02	Yes	-	No
R2	Co	5.96	1.40E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.6E-03	6.0E+00	1.0E-04	Yes	2.2E+01	No
R2	Cr	36.75	1.18E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.3E-02	3.7E+01	1.0E-03	Yes	2.2E+02	No
R2	Cs	0	2.58E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-03	1.6E-03	5.0E-02	No	-	No
R2	Cu	5.18	4.92E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
R2	Fe	0	1.53E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.4E+01	9.4E+01	5.0E-02	Yes	1.1E+04	No
R2	Ga	0	9.50E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.9E-03	5.9E-03	5.0E-02	No	-	No
R2	Ge	0	1.91E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-04	1.2E-04	5.0E-02	No	-	No
R2	Hf	0	1.84E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.1E-03	1.0E-01	No	-	No
R2	In	0	3.33E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-05	2.1E-05	5.0E-03	No	-	No
R2	K	0	1.45E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.0E+00	9.0E+00	2.0E-01	Yes	-	No
R2	La	0	2.04E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	1.3E-02	5.0E-01	No	7.8E-01	No
R2	Li	0	1.52E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.4E-03	9.4E-03	2.0E-01	No	-	No
R2	Mg	0	1.89E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+01	1.2E+01	5.0E-02	Yes	-	No
R2	Mn	673.2	3.36E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
R2	Mo	0.917	1.49E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.2E-03	9.3E-01	5.0E-04	Yes	1.1E+02	No
R2	Na	0	6.26E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E+00	3.9E+00	5.0E-02	Yes	-	No
R2	Nb	0	6.26E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-03	3.9E-03	1.0E-01	No	-	No
R2	Ni	15.15	4.21E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
R2	P	0	7.18E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-01	4.4E-01	5.0E-02	Yes	-	No
R2	Pb	5.332	1.27E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-03	5.3E+00	1.0E-03	Yes	1.4E+02	No
R2	Rb	0	5.40E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-02	3.3E-02	1.0E-01	No	-	No
R2	Re	0	7.11E-06	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-06	4.4E-06	2.0E-03	No	-	No
R2	S	0	7.56E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E+00	4.7E+00	1.0E+02	No	-	No
R2	Sb	0	3.52E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-04	2.2E-04	2.0E-04	Yes	7.5E+00	No
R2	Sc	0	6.70E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.1E-03	4.1E-03	1.0E-01	No	-	No
R2	Se	0	1.45E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.0E-04	9.0E-04	5.0E-04	Yes	8.0E+01	No
R2	Sn	0	1.18E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.3E-04	7.3E-04	1.0E-03	No	9.4E+03	No
R2	Sr	0	1.08E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.7E-02	6.7E-02	1.0E-03	Yes	9.4E+03	No
R2	Ta	0	3.61E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-04	2.2E-04	5.0E-02	No	-	No
R2	Te	0	1.07E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-05	6.6E-05	5.0E-02	No	-	No
R2	Th	0	5.64E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-03	3.5E-03	1.0E-02	No	-	No
R2	Ti	0	2.11E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	1.3E-01	5.0E+01	No	2.8E+04	No
R2	Tl	0.102	6.00E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
R2	U	0.289	8.20E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.1E-03	2.9E-01	5.0E-05	Yes	2.3E+01	No
R2	V	30.95	1.32E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.1E-02	3.1E+01	5.0E-03	Yes	3.9E+01	No
R2	W	0	1.86E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-03	1.2E-03	1.0E-01	No	-	No
R2	Y	0	1.72E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	1.1E-02	1.0E-01	No	-	No
R2	Zn	21.99	1.39E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.6E-02	2.2E+01	5.0E-03	Yes	1.0E+04	No
R2	Zr	0	7.00E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.3E-02	4.3E-02	5.0E-01	No	1.3E+00	No
R2	Hg	0	3.34E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-05	2.1E-05	5.0E-05	No	6.6E+00	No
R3	Ag	0	1.03E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-04	6.4E-04	2.0E-04	Yes	7.7E+01	No
R3	Al	8114	8.91E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
R3	As	2.179	1.23E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.6E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
R3	Ba	58.41	1.05E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
R3	Be	0.29	4.12E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
R3	Bi	0	4.51E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-04	2.8E-04	1.0E-03	No	-	No
R3	Ca	0	5.92E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E+01	3.7E+01	5.0E-02	Yes	-	No
R3	Cd	0	2.67E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-03	1.6E-03	1.0E-04	Yes	1.4E+00	No
R3	Ce	0	1.05E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-02	6.5E-02	1.0E-02	Yes	-	No
R3	Co	5.96	3.54E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
R3	Cr	36.75	2.99E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
R3	Cs	0	6.52E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-03	4.0E-03	5.0E-02	No	-	No
R3	Cu	5.18	1.24E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.7E-02	5.3E+00	5.0E-04	Yes	1.1E+03	No
R3	Fe	0	3.85E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E+02	2.4E+02	5.0E-02	Yes	1.1E+04	No
R3	Ga	0	2.40E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	1.5E-02	5.0E-02	No	-	No
R3	Ge	0	4.82E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-04	3.0E-04	5.0E-02	No	-	No
R3	Hf	0	4.65E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-03	2.9E-03	1.0E-01	No	-	No
R3	In	0	8.41E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-05	5.2E-05	5.0E-03	No	-	No
R3	K	0	3.67E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E+01	2.3E+01	2.0E-01	Yes	-	No
R3	La	0	5.17E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-02	3.2E-02	5.0E-01	No	7.8E-01	No
R3	Li	0	3.83E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	2.4E-02	2.0E-01	No	-	No
R3	Mg	0	4.78E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E+01	3.0E+01	5.0E-02	Yes	-	No
R3	Mn	673.2	8.48E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
R3	Mo	0.917	3.78E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-02	9.4E-01	5.0E-04	Yes	1.1E+02	No
R3	Na	0	1.58E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.8E+00	9.8E+00	5.0E-02	Yes	-	No
R3	Nb	0	1.58E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.8E-03	9.8E-03	1.0E-01	No	-	No
R3	Ni	15.15	1.06E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
R3	P	0	1.81E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+00	1.1E+00	5.0E-02	Yes	-	No
R3	Pb	5.332	3.20E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
R3	Rb	0	1.37E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.4E-02	8.4E-02	1.0E-01	No	-	No
R3	Re	0	1.80E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-05	1.1E-05	2.0E-03	No	-	No
R3	S	0	1.91E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+01	1.2E+01	1.0E+02	No	-	No
R3	Sb	0	8.91E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E-04	5.5E-04	2.0E-04	Yes	7.5E+00	No
R3	Sc	0	1.69E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	1.0E-02	1.0E-01	No	-	No
R3	Se	0	3.67E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-03	2.3E-03	5.0E-04	Yes	8.0E+01	No
R3	Sn	0	2.98E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-03	1.8E-03	1.0E-03	Yes	9.4E+03	No
R3	Sr	0	2.74E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-01	1.7E-01	1.0E-03	Yes	9.4E+03	No
R3	Ta	0	9.13E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E-04	5.6E-04	5.0E-02	No	-	No
R3	Te	0	2.71E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-04	1.7E-04	5.0E-02	No	-	No
R3	Th	0	1.42E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.8E-03	8.8E-03	1.0E-02	No	-	No
R3	Ti	0	5.34E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-01	3.3E-01	5.0E+01	No	2.8E+04	No
R3	Tl	0.102	1.52E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.4E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
R3	U	0.289	2.07E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	3.0E-01	5.0E-05	Yes	2.3E+01	No
R3	V	30.95	3.33E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
R3	W	0	4.71E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-03	2.9E-03	1.0E-01	No	-	No
R3	Y	0	4.36E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-02	2.7E-02	1.0E-01	No	-	No
R3	Zn	21.99	3.52E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
R3	Zr	0	1.77E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	5.0E-01	No	1.3E+00	No
R3	Hg	0	8.44E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-05	5.2E-05	5.0E-05	Yes	6.6E+00	No
S1	Ag	0	4.94E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-04	3.1E-04	2.0E-04	Yes	7.7E+01	No
S1	Al	8114	4.26E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E+01	8.1E+03	5.0E-02	Yes	1.5E+04	No
S1	As	2.179	5.89E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
S1	Ba	58.41	5.01E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
S1	Be	0.29	1.97E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
S1	Bi	0	2.15E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-04	1.3E-04	1.0E-03	No	-	No
S1	Ca	0	2.83E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E+01	1.7E+01	5.0E-02	Yes	-	No
S1	Cd	0	1.28E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.9E-04	7.9E-04	1.0E-04	Yes	1.4E+00	No
S1	Ce	0	5.00E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-02	3.1E-02	1.0E-02	Yes	-	No
S1	Co	5.96	1.69E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
S1	Cr	36.75	1.43E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.8E-02	3.7E+01	1.0E-03	Yes	2.2E+02	No
S1	Cs	0	3.12E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-03	1.9E-03	5.0E-02	No	-	No
S1	Cu	5.18	5.94E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
S1	Fe	0	1.84E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+02	1.1E+02	5.0E-02	Yes	1.1E+04	No
S1	Ga	0	1.15E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.1E-03	7.1E-03	5.0E-02	No	-	No
S1	Ge	0	2.30E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-04	1.4E-04	5.0E-02	No	-	No
S1	Hf	0	2.22E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-03	1.4E-03	1.0E-01	No	-	No
S1	In	0	4.02E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-05	2.5E-05	5.0E-03	No	-	No
S1	K	0	1.76E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+01	1.1E+01	2.0E-01	Yes	-	No
S1	La	0	2.47E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	1.5E-02	5.0E-01	No	7.8E-01	No
S1	Li	0	1.83E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	1.1E-02	2.0E-01	No	-	No
S1	Mg	0	2.29E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+01	1.4E+01	5.0E-02	Yes	-	No
S1	Mn	673.2	4.05E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
S1	Mo	0.917	1.81E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	9.3E-01	5.0E-04	Yes	1.1E+02	No
S1	Na	0	7.57E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E+00	4.7E+00	5.0E-02	Yes	-	No
S1	Nb	0	7.56E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E-03	4.7E-03	1.0E-01	No	-	No
S1	Ni	15.15	5.09E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
S1	P	0	8.67E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-01	5.4E-01	5.0E-02	Yes	-	No
S1	Pb	5.332	1.53E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.5E-03	5.3E+00	1.0E-03	Yes	1.4E+02	No
S1	Rb	0	6.53E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-02	4.0E-02	1.0E-01	No	-	No
S1	Re	0	8.59E-06	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-06	5.3E-06	2.0E-03	No	-	No
S1	S	0	9.14E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E+00	5.6E+00	1.0E+02	No	-	No
S1	Sb	0	4.26E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-04	2.6E-04	2.0E-04	Yes	7.5E+00	No
S1	Sc	0	8.09E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-03	5.0E-03	1.0E-01	No	-	No
S1	Se	0	1.75E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.1E-03	5.0E-04	Yes	8.0E+01	No
S1	Sn	0	1.42E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.8E-04	8.8E-04	1.0E-03	No	9.4E+03	No
S1	Sr	0	1.31E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.1E-02	8.1E-02	1.0E-03	Yes	9.4E+03	No
S1	Ta	0	4.37E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-04	2.7E-04	5.0E-02	No	-	No
S1	Te	0	1.30E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.0E-05	8.0E-05	5.0E-02	No	-	No
S1	Th	0	6.81E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.2E-03	4.2E-03	1.0E-02	No	-	No
S1	Ti	0	2.55E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-01	1.6E-01	5.0E+01	No	2.8E+04	No
S1	Tl	0.102	7.25E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
S1	U	0.289	9.91E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.1E-03	3.0E-01	5.0E-05	Yes	2.3E+01	No
S1	V	30.95	1.59E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.8E-02	3.1E+01	5.0E-03	Yes	3.9E+01	No
S1	W	0	2.25E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-03	1.4E-03	1.0E-01	No	-	No
S1	Y	0	2.08E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	1.3E-02	1.0E-01	No	-	No
S1	Zn	21.99	1.68E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
S1	Zr	0	8.45E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-02	5.2E-02	5.0E-01	No	1.3E+00	No
S1	Hg	0	4.04E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-05	2.5E-05	5.0E-05	No	6.6E+00	No
S2	Ag	0	3.25E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-04	2.0E-04	2.0E-04	Yes	7.7E+01	No
S2	Al	8114	2.80E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E+01	8.1E+03	5.0E-02	Yes	1.5E+04	No
S2	As	2.179	3.87E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
S2	Ba	58.41	3.29E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
S2	Be	0.29	1.29E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.0E-04	2.9E-01	2.0E-04	Yes	7.5E+01	No
S2	Bi	0	1.42E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.7E-05	8.7E-05	1.0E-03	No	-	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
S2	Ca	0	1.86E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+01	1.1E+01	5.0E-02	Yes	-	No
S2	Cd	0	8.39E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-04	5.2E-04	1.0E-04	Yes	1.4E+00	No
S2	Ce	0	3.28E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-02	2.0E-02	1.0E-02	Yes	-	No
S2	Co	5.96	1.11E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.9E-03	6.0E+00	1.0E-04	Yes	2.2E+01	No
S2	Cr	36.75	9.40E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.8E-02	3.7E+01	1.0E-03	Yes	2.2E+02	No
S2	Cs	0	2.05E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-03	1.3E-03	5.0E-02	No	-	No
S2	Cu	5.18	3.90E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
S2	Fe	0	1.21E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.5E+01	7.5E+01	5.0E-02	Yes	1.1E+04	No
S2	Ga	0	7.54E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E-03	4.7E-03	5.0E-02	No	-	No
S2	Ge	0	1.51E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.3E-05	9.3E-05	5.0E-02	No	-	No
S2	Hf	0	1.46E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.0E-04	9.0E-04	1.0E-01	No	-	No
S2	In	0	2.64E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-05	1.6E-05	5.0E-03	No	-	No
S2	K	0	1.15E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.1E+00	7.1E+00	2.0E-01	Yes	-	No
S2	La	0	1.62E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	1.0E-02	5.0E-01	No	7.8E-01	No
S2	Li	0	1.20E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.4E-03	7.4E-03	2.0E-01	No	-	No
S2	Mg	0	1.50E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.3E+00	9.3E+00	5.0E-02	Yes	-	No
S2	Mn	673.2	2.66E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E+00	6.7E+02	1.0E-03	Yes	3.6E+02	Yes
S2	Mo	0.917	1.19E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.3E-03	9.2E-01	5.0E-04	Yes	1.1E+02	No
S2	Na	0	4.97E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E+00	3.1E+00	5.0E-02	Yes	-	No
S2	Nb	0	4.97E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-03	3.1E-03	1.0E-01	No	-	No
S2	Ni	15.15	3.34E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
S2	P	0	5.70E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-01	3.5E-01	5.0E-02	Yes	-	No
S2	Pb	5.332	1.01E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.2E-03	5.3E+00	1.0E-03	Yes	1.4E+02	No
S2	Rb	0	4.29E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-02	2.6E-02	1.0E-01	No	-	No
S2	Re	0	5.64E-06	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-06	3.5E-06	2.0E-03	No	-	No
S2	S	0	6.00E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E+00	3.7E+00	1.0E+02	No	-	No
S2	Sb	0	2.80E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-04	1.7E-04	2.0E-04	No	7.5E+00	No
S2	Sc	0	5.32E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-03	3.3E-03	1.0E-01	No	-	No
S2	Se	0	1.15E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.1E-04	7.1E-04	5.0E-04	Yes	8.0E+01	No
S2	Sn	0	9.34E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.8E-04	5.8E-04	1.0E-03	No	9.4E+03	No
S2	Sr	0	8.60E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-02	5.3E-02	1.0E-03	Yes	9.4E+03	No
S2	Ta	0	2.87E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-04	1.8E-04	5.0E-02	No	-	No
S2	Te	0	8.52E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-05	5.3E-05	5.0E-02	No	-	No
S2	Th	0	4.47E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-03	2.8E-03	1.0E-02	No	-	No
S2	Ti	0	1.68E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-01	1.0E-01	5.0E+01	No	2.8E+04	No
S2	Tl	0.102	4.76E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
S2	U	0.289	6.51E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-03	2.9E-01	5.0E-05	Yes	2.3E+01	No
S2	V	30.95	1.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-02	3.1E+01	5.0E-03	Yes	3.9E+01	No
S2	W	0	1.48E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.1E-04	9.1E-04	1.0E-01	No	-	No
S2	Y	0	1.37E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.4E-03	8.4E-03	1.0E-01	No	-	No
S2	Zn	21.99	1.10E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.8E-02	2.2E+01	5.0E-03	Yes	1.0E+04	No
S2	Zr	0	5.55E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-02	3.4E-02	5.0E-01	No	1.3E+00	No
S2	Hg	0	2.65E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-05	1.6E-05	5.0E-05	No	6.6E+00	No
S3	Ag	0	8.64E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-04	5.3E-04	2.0E-04	Yes	7.7E+01	No
S3	Al	8114	7.45E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.6E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
S3	As	2.179	1.03E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
S3	Ba	58.41	8.77E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
S3	Be	0.29	3.44E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
S3	Bi	0	3.77E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-04	2.3E-04	1.0E-03	No	-	No
S3	Ca	0	4.95E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E+01	3.1E+01	5.0E-02	Yes	-	No
S3	Cd	0	2.23E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-03	1.4E-03	1.0E-04	Yes	1.4E+00	No
S3	Ce	0	8.74E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-02	5.4E-02	1.0E-02	Yes	-	No
S3	Co	5.96	2.96E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
S3	Cr	36.75	2.50E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
S3	Cs	0	5.45E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-03	3.4E-03	5.0E-02	No	-	No
S3	Cu	5.18	1.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
S3	Fe	0	3.22E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E+02	2.0E+02	5.0E-02	Yes	1.1E+04	No
S3	Ga	0	2.01E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-02	1.2E-02	5.0E-02	No	-	No
S3	Ge	0	4.03E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-04	2.5E-04	5.0E-02	No	-	No
S3	Hf	0	3.89E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-03	2.4E-03	1.0E-01	No	-	No
S3	In	0	7.03E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.3E-05	4.3E-05	5.0E-03	No	-	No
S3	K	0	3.07E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E+01	1.9E+01	2.0E-01	Yes	-	No
S3	La	0	4.32E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-02	2.7E-02	5.0E-01	No	7.8E-01	No
S3	Li	0	3.21E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-02	2.0E-02	2.0E-01	No	-	No
S3	Mg	0	4.00E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E+01	2.5E+01	5.0E-02	Yes	-	No
S3	Mn	673.2	7.09E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
S3	Mo	0.917	3.16E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-02	9.4E-01	5.0E-04	Yes	1.1E+02	No
S3	Na	0	1.32E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.2E+00	8.2E+00	5.0E-02	Yes	-	No
S3	Nb	0	1.32E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.2E-03	8.2E-03	1.0E-01	No	-	No
S3	Ni	15.15	8.89E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
S3	P	0	1.52E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.4E-01	9.4E-01	5.0E-02	Yes	-	No
S3	Pb	5.332	2.68E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-02	5.3E+00	1.0E-03	Yes	1.4E+02	No
S3	Rb	0	1.14E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.1E-02	7.1E-02	1.0E-01	No	-	No
S3	Re	0	1.50E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.3E-06	9.3E-06	2.0E-03	No	-	No
S3	S	0	1.60E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.9E+00	9.9E+00	1.0E+02	No	-	No
S3	Sb	0	7.45E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.6E-04	4.6E-04	2.0E-04	Yes	7.5E+00	No
S3	Sc	0	1.42E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.7E-03	8.7E-03	1.0E-01	No	-	No
S3	Se	0	3.07E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-03	1.9E-03	5.0E-04	Yes	8.0E+01	No
S3	Sn	0	2.49E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-03	1.5E-03	1.0E-03	Yes	9.4E+03	No
S3	Sr	0	2.29E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-01	1.4E-01	1.0E-03	Yes	9.4E+03	No
S3	Ta	0	7.64E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E-04	4.7E-04	5.0E-02	No	-	No
S3	Te	0	2.27E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-04	1.4E-04	5.0E-02	No	-	No
S3	Th	0	1.19E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.4E-03	7.4E-03	1.0E-02	No	-	No
S3	Ti	0	4.46E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-01	2.8E-01	5.0E+01	No	2.8E+04	No
S3	Tl	0.102	1.27E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
S3	U	0.289	1.73E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	3.0E-01	5.0E-05	Yes	2.3E+01	No
S3	V	30.95	2.78E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
S3	W	0	3.94E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-03	2.4E-03	1.0E-01	No	-	No
S3	Y	0	3.64E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-02	2.2E-02	1.0E-01	No	-	No
S3	Zn	21.99	2.94E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
S3	Zr	0	1.48E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.1E-02	9.1E-02	5.0E-01	No	1.3E+00	No
S3	Hg	0	7.06E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-05	4.4E-05	5.0E-05	No	6.6E+00	No
H1	Ag	0	2.80E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-04	1.7E-04	2.0E-04	No	7.7E+01	No
H1	Al	8114	2.41E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E+01	8.1E+03	5.0E-02	Yes	1.5E+04	No
H1	As	2.179	3.33E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
H1	Ba	58.41	2.84E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
H1	Be	0.29	1.11E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.9E-04	2.9E-01	2.0E-04	Yes	7.5E+01	No
H1	Bi	0	1.22E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.5E-05	7.5E-05	1.0E-03	No	-	No
H1	Ca	0	1.60E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.9E+00	9.9E+00	5.0E-02	Yes	-	No
H1	Cd	0	7.23E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-04	4.5E-04	1.0E-04	Yes	1.4E+00	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
H1	Ce	0	2.83E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-02	1.7E-02	1.0E-02	Yes	-	No
H1	Co	5.96	9.58E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.9E-03	6.0E+00	1.0E-04	Yes	2.2E+01	No
H1	Cr	36.75	8.10E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-02	3.7E+01	1.0E-03	Yes	2.2E+02	No
H1	Cs	0	1.77E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.1E-03	5.0E-02	No	-	No
H1	Cu	5.18	3.36E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
H1	Fe	0	1.04E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E+01	6.4E+01	5.0E-02	Yes	1.1E+04	No
H1	Ga	0	6.50E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-03	4.0E-03	5.0E-02	No	-	No
H1	Ge	0	1.30E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.1E-05	8.1E-05	5.0E-02	No	-	No
H1	Hf	0	1.26E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-04	7.8E-04	1.0E-01	No	-	No
H1	In	0	2.28E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-05	1.4E-05	5.0E-03	No	-	No
H1	K	0	9.94E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.1E+00	6.1E+00	2.0E-01	Yes	-	No
H1	La	0	1.40E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.6E-03	8.6E-03	5.0E-01	No	7.8E-01	No
H1	Li	0	1.04E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-03	6.4E-03	2.0E-01	No	-	No
H1	Mg	0	1.29E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.0E+00	8.0E+00	5.0E-02	Yes	-	No
H1	Mn	673.2	2.30E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+00	6.7E+02	1.0E-03	Yes	3.6E+02	Yes
H1	Mo	0.917	1.02E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.3E-03	9.2E-01	5.0E-04	Yes	1.1E+02	No
H1	Na	0	4.29E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E+00	2.6E+00	5.0E-02	Yes	-	No
H1	Nb	0	4.28E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-03	2.6E-03	1.0E-01	No	-	No
H1	Ni	15.15	2.88E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
H1	P	0	4.91E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-01	3.0E-01	5.0E-02	Yes	-	No
H1	Pb	5.332	8.67E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-03	5.3E+00	1.0E-03	Yes	1.4E+02	No
H1	Rb	0	3.70E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-02	2.3E-02	1.0E-01	No	-	No
H1	Re	0	4.87E-06	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-06	3.0E-06	2.0E-03	No	-	No
H1	S	0	5.18E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E+00	3.2E+00	1.0E+02	No	-	No
H1	Sb	0	2.41E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-04	1.5E-04	2.0E-04	No	7.5E+00	No
H1	Sc	0	4.58E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-03	2.8E-03	1.0E-01	No	-	No
H1	Se	0	9.93E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.1E-04	6.1E-04	5.0E-04	Yes	8.0E+01	No
H1	Sn	0	8.06E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-04	5.0E-04	1.0E-03	No	9.4E+03	No
H1	Sr	0	7.42E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.6E-02	4.6E-02	1.0E-03	Yes	9.4E+03	No
H1	Ta	0	2.47E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-04	1.5E-04	5.0E-02	No	-	No
H1	Te	0	7.35E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-05	4.5E-05	5.0E-02	No	-	No
H1	Th	0	3.86E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-03	2.4E-03	1.0E-02	No	-	No
H1	Ti	0	1.44E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.9E-02	8.9E-02	5.0E+01	No	2.8E+04	No
H1	Tl	0.102	4.11E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
H1	U	0.289	5.61E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-03	2.9E-01	5.0E-05	Yes	2.3E+01	No
H1	V	30.95	9.00E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E-02	3.1E+01	5.0E-03	Yes	3.9E+01	No
H1	W	0	1.27E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.9E-04	7.9E-04	1.0E-01	No	-	No
H1	Y	0	1.18E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.3E-03	7.3E-03	1.0E-01	No	-	No
H1	Zn	21.99	9.52E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.9E-02	2.2E+01	5.0E-03	Yes	1.0E+04	No
H1	Zr	0	4.79E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-02	3.0E-02	5.0E-01	No	1.3E+00	No
H1	Hg	0	2.29E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-05	1.4E-05	5.0E-05	No	6.6E+00	No
LU1	Ag	0	2.45E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-03	1.5E-03	2.0E-04	Yes	7.7E+01	No
LU1	Al	8114	2.12E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E+02	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU1	As	2.179	2.93E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-02	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU1	Ba	58.41	2.49E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E+00	6.0E+01	5.0E-04	Yes	6.8E+03	No
LU1	Be	0.29	9.78E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.0E-03	3.0E-01	2.0E-04	Yes	7.5E+01	No
LU1	Bi	0	1.07E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-04	6.6E-04	1.0E-03	No	-	No
LU1	Ca	0	1.41E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.7E+01	8.7E+01	5.0E-02	Yes	-	No
LU1	Cd	0	6.35E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-03	3.9E-03	1.0E-04	Yes	1.4E+00	No
LU1	Ce	0	2.48E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-01	1.5E-01	1.0E-02	Yes	-	No
LU1	Co	5.96	8.40E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU1	Cr	36.75	7.11E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU1	Cs	0	1.55E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.6E-03	9.6E-03	5.0E-02	No	-	No
LU1	Cu	5.18	2.95E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	5.4E+00	5.0E-04	Yes	1.1E+03	No
LU1	Fe	0	9.16E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.7E+02	5.7E+02	5.0E-02	Yes	1.1E+04	No
LU1	Ga	0	5.70E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-02	3.5E-02	5.0E-02	No	-	No
LU1	Ge	0	1.14E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.1E-04	7.1E-04	5.0E-02	No	-	No
LU1	Hf	0	1.10E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.8E-03	6.8E-03	1.0E-01	No	-	No
LU1	In	0	2.00E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-04	1.2E-04	5.0E-03	No	-	No
LU1	K	0	8.73E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E+01	5.4E+01	2.0E-01	Yes	-	No
LU1	La	0	1.23E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.6E-02	7.6E-02	5.0E-01	No	7.8E-01	No
LU1	Li	0	9.11E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E-02	5.6E-02	2.0E-01	No	-	No
LU1	Mg	0	1.14E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.0E+01	7.0E+01	5.0E-02	Yes	-	No
LU1	Mn	673.2	2.01E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+01	6.9E+02	1.0E-03	Yes	3.6E+02	Yes
LU1	Mo	0.917	8.98E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E-02	9.7E-01	5.0E-04	Yes	1.1E+02	No
LU1	Na	0	3.76E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E+01	2.3E+01	5.0E-02	Yes	-	No
LU1	Nb	0	3.76E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-02	2.3E-02	1.0E-01	No	-	No
LU1	Ni	15.15	2.53E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-01	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU1	P	0	4.31E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E+00	2.7E+00	5.0E-02	Yes	-	No
LU1	Pb	5.332	7.61E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
LU1	Rb	0	3.25E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-01	2.0E-01	1.0E-01	Yes	-	No
LU1	Re	0	4.27E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-05	2.6E-05	2.0E-03	No	-	No
LU1	S	0	4.54E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E+01	2.8E+01	1.0E+02	No	-	No
LU1	Sb	0	2.12E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-03	1.3E-03	2.0E-04	Yes	7.5E+00	No
LU1	Sc	0	4.02E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-02	2.5E-02	1.0E-01	No	-	No
LU1	Se	0	8.72E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-03	5.4E-03	5.0E-04	Yes	8.0E+01	No
LU1	Sn	0	7.07E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-03	4.4E-03	1.0E-03	Yes	9.4E+03	No
LU1	Sr	0	6.51E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-01	4.0E-01	1.0E-03	Yes	9.4E+03	No
LU1	Ta	0	2.17E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-03	1.3E-03	5.0E-02	No	-	No
LU1	Te	0	6.45E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-04	4.0E-04	5.0E-02	No	-	No
LU1	Th	0	3.38E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-02	2.1E-02	1.0E-02	Yes	-	No
LU1	Ti	0	1.27E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-01	7.8E-01	5.0E+01	No	2.8E+04	No
LU1	Tl	0.102	3.60E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-03	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU1	U	0.289	4.92E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-02	3.2E-01	5.0E-05	Yes	2.3E+01	No
LU1	V	30.95	7.90E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.9E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU1	W	0	1.12E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.9E-03	6.9E-03	1.0E-01	No	-	No
LU1	Y	0	1.03E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-02	6.4E-02	1.0E-01	No	-	No
LU1	Zn	21.99	8.36E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-01	2.3E+01	5.0E-03	Yes	1.0E+04	No
LU1	Zr	0	4.20E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-01	2.6E-01	5.0E-01	No	1.3E+00	No
LU1	Hg	0	2.01E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-04	1.2E-04	5.0E-05	Yes	6.6E+00	No
LU2	Ag	0	1.69E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-03	1.0E-03	2.0E-04	Yes	7.7E+01	No
LU2	Al	8114	1.46E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.0E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU2	As	2.179	2.01E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-02	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU2	Ba	58.41	1.72E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+00	5.9E+01	5.0E-04	Yes	6.8E+03	No
LU2	Be	0.29	6.74E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.2E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU2	Bi	0	7.37E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.6E-04	4.6E-04	1.0E-03	No	-	No
LU2	Ca	0	9.69E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.0E+01	6.0E+01	5.0E-02	Yes	-	No
LU2	Cd	0	4.37E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-03	2.7E-03	1.0E-04	Yes	1.4E+00	No
LU2	Ce	0	1.71E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	1.0E-02	Yes	-	No
LU2	Co	5.96	5.79E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
LU2	Cr	36.75	4.90E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU2	Cs	0	1.07E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-03	6.6E-03	5.0E-02	No	-	No
LU2	Cu	5.18	2.03E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	5.3E+00	5.0E-04	Yes	1.1E+03	No
LU2	Fe	0	6.31E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E+02	3.9E+02	5.0E-02	Yes	1.1E+04	No
LU2	Ga	0	3.93E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	2.4E-02	5.0E-02	No	-	No
LU2	Ge	0	7.88E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.9E-04	4.9E-04	5.0E-02	No	-	No
LU2	Hf	0	7.61E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E-03	4.7E-03	1.0E-01	No	-	No
LU2	In	0	1.38E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.5E-05	8.5E-05	5.0E-03	No	-	No
LU2	K	0	6.01E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E+01	3.7E+01	2.0E-01	Yes	-	No
LU2	La	0	8.45E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-02	5.2E-02	5.0E-01	No	7.8E-01	No
LU2	Li	0	6.27E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-02	3.9E-02	2.0E-01	No	-	No
LU2	Mg	0	7.83E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.8E+01	4.8E+01	5.0E-02	Yes	-	No
LU2	Mn	673.2	1.39E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.6E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
LU2	Mo	0.917	6.18E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E-02	9.6E-01	5.0E-04	Yes	1.1E+02	No
LU2	Na	0	2.59E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E+01	1.6E+01	5.0E-02	Yes	-	No
LU2	Nb	0	2.59E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-02	1.6E-02	1.0E-01	No	-	No
LU2	Ni	15.15	1.74E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU2	P	0	2.97E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E+00	1.8E+00	5.0E-02	Yes	-	No
LU2	Pb	5.332	5.24E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
LU2	Rb	0	2.23E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-01	1.4E-01	1.0E-01	Yes	-	No
LU2	Re	0	2.94E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-05	1.8E-05	2.0E-03	No	-	No
LU2	S	0	3.13E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E+01	1.9E+01	1.0E+02	No	-	No
LU2	Sb	0	1.46E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.0E-04	9.0E-04	2.0E-04	Yes	7.5E+00	No
LU2	Sc	0	2.77E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-02	1.7E-02	1.0E-01	No	-	No
LU2	Se	0	6.00E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E-03	3.7E-03	5.0E-04	Yes	8.0E+01	No
LU2	Sn	0	4.87E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-03	3.0E-03	1.0E-03	Yes	9.4E+03	No
LU2	Sr	0	4.48E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-01	2.8E-01	1.0E-03	Yes	9.4E+03	No
LU2	Ta	0	1.49E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.2E-04	9.2E-04	5.0E-02	No	-	No
LU2	Te	0	4.44E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-04	2.7E-04	5.0E-02	No	-	No
LU2	Th	0	2.33E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-02	1.4E-02	1.0E-02	Yes	-	No
LU2	Ti	0	8.73E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-01	5.4E-01	5.0E+01	No	2.8E+04	No
LU2	Tl	0.102	2.48E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-03	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU2	U	0.289	3.39E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-02	3.1E-01	5.0E-05	Yes	2.3E+01	No
LU2	V	30.95	5.44E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU2	W	0	7.70E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.8E-03	4.8E-03	1.0E-01	No	-	No
LU2	Y	0	7.13E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-02	4.4E-02	1.0E-01	No	-	No
LU2	Zn	21.99	5.75E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU2	Zr	0	2.89E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	1.8E-01	5.0E-01	No	1.3E+00	No
LU2	Hg	0	1.38E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.5E-05	8.5E-05	5.0E-05	Yes	6.6E+00	No
LU3	Ag	0	1.06E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-04	6.6E-04	2.0E-04	Yes	7.7E+01	No
LU3	Al	8114	9.17E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.7E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU3	As	2.179	1.27E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU3	Ba	58.41	1.08E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.7E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
LU3	Be	0.29	4.23E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU3	Bi	0	4.63E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-04	2.9E-04	1.0E-03	No	-	No
LU3	Ca	0	6.09E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E+01	3.8E+01	5.0E-02	Yes	-	No
LU3	Cd	0	2.75E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-03	1.7E-03	1.0E-04	Yes	1.4E+00	No
LU3	Ce	0	1.07E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-02	6.6E-02	1.0E-02	Yes	-	No
LU3	Co	5.96	3.64E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU3	Cr	36.75	3.08E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU3	Cs	0	6.71E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.1E-03	4.1E-03	5.0E-02	No	-	No
LU3	Cu	5.18	1.28E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.9E-02	5.3E+00	5.0E-04	Yes	1.1E+03	No
LU3	Fe	0	3.96E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E+02	2.4E+02	5.0E-02	Yes	1.1E+04	No
LU3	Ga	0	2.47E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	1.5E-02	5.0E-02	No	-	No
LU3	Ge	0	4.95E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-04	3.1E-04	5.0E-02	No	-	No
LU3	Hf	0	4.78E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-03	3.0E-03	1.0E-01	No	-	No
LU3	In	0	8.65E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-05	5.3E-05	5.0E-03	No	-	No
LU3	K	0	3.78E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E+01	2.3E+01	2.0E-01	Yes	-	No
LU3	La	0	5.31E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-02	3.3E-02	5.0E-01	No	7.8E-01	No
LU3	Li	0	3.94E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	2.4E-02	2.0E-01	No	-	No
LU3	Mg	0	4.92E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E+01	3.0E+01	5.0E-02	Yes	-	No
LU3	Mn	673.2	8.72E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
LU3	Mo	0.917	3.89E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	9.4E-01	5.0E-04	Yes	1.1E+02	No
LU3	Na	0	1.63E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E+01	1.0E+01	5.0E-02	Yes	-	No
LU3	Nb	0	1.63E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	1.0E-02	1.0E-01	No	-	No
LU3	Ni	15.15	1.09E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.8E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU3	P	0	1.87E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+00	1.2E+00	5.0E-02	Yes	-	No
LU3	Pb	5.332	3.29E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
LU3	Rb	0	1.40E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.7E-02	8.7E-02	1.0E-01	No	-	No
LU3	Re	0	1.85E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-05	1.1E-05	2.0E-03	No	-	No
LU3	S	0	1.97E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+01	1.2E+01	1.0E+02	No	-	No
LU3	Sb	0	9.16E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.7E-04	5.7E-04	2.0E-04	Yes	7.5E+00	No
LU3	Sc	0	1.74E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	1.1E-02	1.0E-01	No	-	No
LU3	Se	0	3.77E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-03	2.3E-03	5.0E-04	Yes	8.0E+01	No
LU3	Sn	0	3.06E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-03	1.9E-03	1.0E-03	Yes	9.4E+03	No
LU3	Sr	0	2.82E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-01	1.7E-01	1.0E-03	Yes	9.4E+03	No
LU3	Ta	0	9.39E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.8E-04	5.8E-04	5.0E-02	No	-	No
LU3	Te	0	2.79E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-04	1.7E-04	5.0E-02	No	-	No
LU3	Th	0	1.47E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.0E-03	9.0E-03	1.0E-02	No	-	No
LU3	Ti	0	5.49E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-01	3.4E-01	5.0E+01	No	2.8E+04	No
LU3	Tl	0.102	1.56E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.6E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU3	U	0.289	2.13E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	3.0E-01	5.0E-05	Yes	2.3E+01	No
LU3	V	30.95	3.42E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU3	W	0	4.84E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-03	3.0E-03	1.0E-01	No	-	No
LU3	Y	0	4.48E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-02	2.8E-02	1.0E-01	No	-	No
LU3	Zn	21.99	3.62E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU3	Zr	0	1.82E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	5.0E-01	No	1.3E+00	No
LU3	Hg	0	8.68E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-05	5.4E-05	5.0E-05	Yes	6.6E+00	No
LU4	Ag	0	1.03E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-04	6.4E-04	2.0E-04	Yes	7.7E+01	No
LU4	Al	8114	8.91E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU4	As	2.179	1.23E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.6E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU4	Ba	58.41	1.05E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
LU4	Be	0.29	4.11E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU4	Bi	0	4.50E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-04	2.8E-04	1.0E-03	No	-	No
LU4	Ca	0	5.92E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E+01	3.7E+01	5.0E-02	Yes	-	No
LU4	Cd	0	2.67E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-03	1.6E-03	1.0E-04	Yes	1.4E+00	No
LU4	Ce	0	1.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-02	6.4E-02	1.0E-02	Yes	-	No
LU4	Co	5.96	3.53E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU4	Cr	36.75	2.99E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU4	Cs	0	6.52E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-03	4.0E-03	5.0E-02	No	-	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
LU4	Cu	5.18	1.24E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.7E-02	5.3E+00	5.0E-04	Yes	1.1E+03	No
LU4	Fe	0	3.85E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E+02	2.4E+02	5.0E-02	Yes	1.1E+04	No
LU4	Ga	0	2.40E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	1.5E-02	5.0E-02	No	-	No
LU4	Ge	0	4.81E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-04	3.0E-04	5.0E-02	No	-	No
LU4	Hf	0	4.65E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-03	2.9E-03	1.0E-01	No	-	No
LU4	In	0	8.40E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-05	5.2E-05	5.0E-03	No	-	No
LU4	K	0	3.67E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E+01	2.3E+01	2.0E-01	Yes	-	No
LU4	La	0	5.16E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-02	3.2E-02	5.0E-01	No	7.8E-01	No
LU4	Li	0	3.83E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	2.4E-02	2.0E-01	No	-	No
LU4	Mg	0	4.78E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E+01	3.0E+01	5.0E-02	Yes	-	No
LU4	Mn	673.2	8.47E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
LU4	Mo	0.917	3.78E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-02	9.4E-01	5.0E-04	Yes	1.1E+02	No
LU4	Na	0	1.58E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.8E+00	9.8E+00	5.0E-02	Yes	-	No
LU4	Nb	0	1.58E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.8E-03	9.8E-03	1.0E-01	No	-	No
LU4	Ni	15.15	1.06E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU4	P	0	1.81E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+00	1.1E+00	5.0E-02	Yes	-	No
LU4	Pb	5.332	3.20E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
LU4	Rb	0	1.36E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.4E-02	8.4E-02	1.0E-01	No	-	No
LU4	Re	0	1.80E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-05	1.1E-05	2.0E-03	No	-	No
LU4	S	0	1.91E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+01	1.2E+01	1.0E+02	No	-	No
LU4	Sb	0	8.90E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E-04	5.5E-04	2.0E-04	Yes	7.5E+00	No
LU4	Sc	0	1.69E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	1.0E-02	1.0E-01	No	-	No
LU4	Se	0	3.67E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-03	2.3E-03	5.0E-04	Yes	8.0E+01	No
LU4	Sn	0	2.97E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-03	1.8E-03	1.0E-03	Yes	9.4E+03	No
LU4	Sr	0	2.74E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-01	1.7E-01	1.0E-03	Yes	9.4E+03	No
LU4	Ta	0	9.13E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E-04	5.6E-04	5.0E-02	No	-	No
LU4	Te	0	2.71E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-04	1.7E-04	5.0E-02	No	-	No
LU4	Th	0	1.42E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.8E-03	8.8E-03	1.0E-02	No	-	No
LU4	Ti	0	5.33E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-01	3.3E-01	5.0E+01	No	2.8E+04	No
LU4	Tl	0.102	1.52E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.4E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU4	U	0.289	2.07E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	3.0E-01	5.0E-05	Yes	2.3E+01	No
LU4	V	30.95	3.32E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU4	W	0	4.71E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-03	2.9E-03	1.0E-01	No	-	No
LU4	Y	0	4.35E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-02	2.7E-02	1.0E-01	No	-	No
LU4	Zn	21.99	3.51E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU4	Zr	0	1.77E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	5.0E-01	No	1.3E+00	No
LU4	Hg	0	8.44E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.2E-05	5.2E-05	5.0E-05	Yes	6.6E+00	No
LU5	Ag	0	1.05E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-04	6.5E-04	2.0E-04	Yes	7.7E+01	No
LU5	Al	8114	9.07E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU5	As	2.179	1.25E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.7E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU5	Ba	58.41	1.07E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
LU5	Be	0.29	4.19E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU5	Bi	0	4.58E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-04	2.8E-04	1.0E-03	No	-	No
LU5	Ca	0	6.02E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E+01	3.7E+01	5.0E-02	Yes	-	No
LU5	Cd	0	2.72E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-03	1.7E-03	1.0E-04	Yes	1.4E+00	No
LU5	Ce	0	1.06E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-02	6.6E-02	1.0E-02	Yes	-	No
LU5	Co	5.96	3.60E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU5	Cr	36.75	3.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU5	Cs	0	6.63E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.1E-03	4.1E-03	5.0E-02	No	-	No
LU5	Cu	5.18	1.26E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-02	5.3E+00	5.0E-04	Yes	1.1E+03	No
LU5	Fe	0	3.92E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E+02	2.4E+02	5.0E-02	Yes	1.1E+04	No
LU5	Ga	0	2.44E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	1.5E-02	5.0E-02	No	-	No
LU5	Ge	0	4.90E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-04	3.0E-04	5.0E-02	No	-	No
LU5	Hf	0	4.73E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-03	2.9E-03	1.0E-01	No	-	No
LU5	In	0	8.55E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-05	5.3E-05	5.0E-03	No	-	No
LU5	K	0	3.74E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E+01	2.3E+01	2.0E-01	Yes	-	No
LU5	La	0	5.26E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-02	3.2E-02	5.0E-01	No	7.8E-01	No
LU5	Li	0	3.90E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	2.4E-02	2.0E-01	No	-	No
LU5	Mg	0	4.87E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E+01	3.0E+01	5.0E-02	Yes	-	No
LU5	Mn	673.2	8.62E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
LU5	Mo	0.917	3.84E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	9.4E-01	5.0E-04	Yes	1.1E+02	No
LU5	Na	0	1.61E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.9E+00	9.9E+00	5.0E-02	Yes	-	No
LU5	Nb	0	1.61E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.9E-03	9.9E-03	1.0E-01	No	-	No
LU5	Ni	15.15	1.08E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.7E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU5	P	0	1.84E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+00	1.1E+00	5.0E-02	Yes	-	No
LU5	Pb	5.332	3.26E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
LU5	Rb	0	1.39E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.6E-02	8.6E-02	1.0E-01	No	-	No
LU5	Re	0	1.83E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-05	1.1E-05	2.0E-03	No	-	No
LU5	S	0	1.94E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+01	1.2E+01	1.0E+02	No	-	No
LU5	Sb	0	9.06E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E-04	5.6E-04	2.0E-04	Yes	7.5E+00	No
LU5	Sc	0	1.72E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	1.1E-02	1.0E-01	No	-	No
LU5	Se	0	3.73E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-03	2.3E-03	5.0E-04	Yes	8.0E+01	No
LU5	Sn	0	3.03E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-03	1.9E-03	1.0E-03	Yes	9.4E+03	No
LU5	Sr	0	2.79E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-01	1.7E-01	1.0E-03	Yes	9.4E+03	No
LU5	Ta	0	9.29E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.7E-04	5.7E-04	5.0E-02	No	-	No
LU5	Te	0	2.76E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-04	1.7E-04	5.0E-02	No	-	No
LU5	Th	0	1.45E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.9E-03	8.9E-03	1.0E-02	No	-	No
LU5	Ti	0	5.43E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-01	3.4E-01	5.0E+01	No	2.8E+04	No
LU5	Tl	0.102	1.54E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.5E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU5	U	0.289	2.11E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	3.0E-01	5.0E-05	Yes	2.3E+01	No
LU5	V	30.95	3.38E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU5	W	0	4.79E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-03	3.0E-03	1.0E-01	No	-	No
LU5	Y	0	4.43E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-02	2.7E-02	1.0E-01	No	-	No
LU5	Zn	21.99	3.58E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU5	Zr	0	1.80E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	5.0E-01	No	1.3E+00	No
LU5	Hg	0	8.59E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-05	5.3E-05	5.0E-05	Yes	6.6E+00	No
LU6	Ag	0	1.91E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-03	1.2E-03	2.0E-04	Yes	7.7E+01	No
LU6	Al	8114	1.64E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E+02	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU6	As	2.179	2.27E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-02	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU6	Ba	58.41	1.93E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+00	6.0E+01	5.0E-04	Yes	6.8E+03	No
LU6	Be	0.29	7.59E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU6	Bi	0	8.31E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.1E-04	5.1E-04	1.0E-03	No	-	No
LU6	Ca	0	1.09E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.7E+01	6.7E+01	5.0E-02	Yes	-	No
LU6	Cd	0	4.93E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-03	3.0E-03	1.0E-04	Yes	1.4E+00	No
LU6	Ce	0	1.93E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-01	1.2E-01	1.0E-02	Yes	-	No
LU6	Co	5.96	6.52E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU6	Cr	36.75	5.52E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU6	Cs	0	1.20E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.4E-03	7.4E-03	5.0E-02	No	-	No
LU6	Cu	5.18	2.29E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-01	5.3E+00	5.0E-04	Yes	1.1E+03	No
LU6	Fe	0	7.11E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E+02	4.4E+02	5.0E-02	Yes	1.1E+04	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
LU6	Ga	0	4.43E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-02	2.7E-02	5.0E-02	No	-	No
LU6	Ge	0	8.88E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E-04	5.5E-04	5.0E-02	No	-	No
LU6	Hf	0	8.58E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-03	5.3E-03	1.0E-01	No	-	No
LU6	In	0	1.55E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.6E-05	9.6E-05	5.0E-03	No	-	No
LU6	K	0	6.77E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.2E+01	4.2E+01	2.0E-01	Yes	-	No
LU6	La	0	9.53E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.9E-02	5.9E-02	5.0E-01	No	7.8E-01	No
LU6	Li	0	7.07E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-02	4.4E-02	2.0E-01	No	-	No
LU6	Mg	0	8.82E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E+01	5.4E+01	5.0E-02	Yes	-	No
LU6	Mn	673.2	1.56E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.7E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
LU6	Mo	0.917	6.97E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.3E-02	9.6E-01	5.0E-04	Yes	1.1E+02	No
LU6	Na	0	2.92E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E+01	1.8E+01	5.0E-02	Yes	-	No
LU6	Nb	0	2.92E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-02	1.8E-02	1.0E-01	No	-	No
LU6	Ni	15.15	1.96E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-01	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU6	P	0	3.34E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E+00	2.1E+00	5.0E-02	Yes	-	No
LU6	Pb	5.332	5.91E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
LU6	Rb	0	2.52E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-01	1.6E-01	1.0E-01	Yes	-	No
LU6	Re	0	3.31E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-05	2.0E-05	2.0E-03	No	-	No
LU6	S	0	3.53E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E+01	2.2E+01	1.0E+02	No	-	No
LU6	Sb	0	1.64E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-03	1.0E-03	2.0E-04	Yes	7.5E+00	No
LU6	Sc	0	3.12E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-02	1.9E-02	1.0E-01	No	-	No
LU6	Se	0	6.77E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.2E-03	4.2E-03	5.0E-04	Yes	8.0E+01	No
LU6	Sn	0	5.49E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-03	3.4E-03	1.0E-03	Yes	9.4E+03	No
LU6	Sr	0	5.05E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-01	3.1E-01	1.0E-03	Yes	9.4E+03	No
LU6	Ta	0	1.68E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-03	1.0E-03	5.0E-02	No	-	No
LU6	Te	0	5.00E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-04	3.1E-04	5.0E-02	No	-	No
LU6	Th	0	2.63E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-02	1.6E-02	1.0E-02	Yes	-	No
LU6	Ti	0	9.84E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.1E-01	6.1E-01	5.0E+01	No	2.8E+04	No
LU6	Tl	0.102	2.80E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-03	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU6	U	0.289	3.82E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-02	3.1E-01	5.0E-05	Yes	2.3E+01	No
LU6	V	30.95	6.13E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU6	W	0	8.68E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-03	5.4E-03	1.0E-01	No	-	No
LU6	Y	0	8.03E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-02	5.0E-02	1.0E-01	No	-	No
LU6	Zn	21.99	6.49E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU6	Zr	0	3.26E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-01	2.0E-01	5.0E-01	No	1.3E+00	No
LU6	Hg	0	1.56E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.6E-05	9.6E-05	5.0E-05	Yes	6.6E+00	No
LU7	Ag	0	1.01E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.2E-04	6.2E-04	2.0E-04	Yes	7.7E+01	No
LU7	Al	8114	8.71E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU7	As	2.179	1.20E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.4E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU7	Ba	58.41	1.02E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.3E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
LU7	Be	0.29	4.02E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU7	Bi	0	4.40E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-04	2.7E-04	1.0E-03	No	-	No
LU7	Ca	0	5.79E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E+01	3.6E+01	5.0E-02	Yes	-	No
LU7	Cd	0	2.61E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-03	1.6E-03	1.0E-04	Yes	1.4E+00	No
LU7	Ce	0	1.02E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.3E-02	6.3E-02	1.0E-02	Yes	-	No
LU7	Co	5.96	3.46E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU7	Cr	36.75	2.92E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU7	Cs	0	6.37E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-03	3.9E-03	5.0E-02	No	-	No
LU7	Cu	5.18	1.21E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.5E-02	5.3E+00	5.0E-04	Yes	1.1E+03	No
LU7	Fe	0	3.77E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E+02	2.3E+02	5.0E-02	Yes	1.1E+04	No
LU7	Ga	0	2.35E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-02	1.4E-02	5.0E-02	No	-	No
LU7	Ge	0	4.70E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-04	2.9E-04	5.0E-02	No	-	No
LU7	Hf	0	4.54E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-03	2.8E-03	1.0E-01	No	-	No
LU7	In	0	8.21E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.1E-05	5.1E-05	5.0E-03	No	-	No
LU7	K	0	3.59E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E+01	2.2E+01	2.0E-01	Yes	-	No
LU7	La	0	5.05E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-02	3.1E-02	5.0E-01	No	7.8E-01	No
LU7	Li	0	3.74E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-02	2.3E-02	2.0E-01	No	-	No
LU7	Mg	0	4.67E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E+01	2.9E+01	5.0E-02	Yes	-	No
LU7	Mn	673.2	8.28E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.1E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
LU7	Mo	0.917	3.69E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-02	9.4E-01	5.0E-04	Yes	1.1E+02	No
LU7	Na	0	1.55E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.6E+00	9.6E+00	5.0E-02	Yes	-	No
LU7	Nb	0	1.54E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.5E-03	9.5E-03	1.0E-01	No	-	No
LU7	Ni	15.15	1.04E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU7	P	0	1.77E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E+00	1.1E+00	5.0E-02	Yes	-	No
LU7	Pb	5.332	3.13E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
LU7	Rb	0	1.33E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.2E-02	8.2E-02	1.0E-01	No	-	No
LU7	Re	0	1.76E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-05	1.1E-05	2.0E-03	No	-	No
LU7	S	0	1.87E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+01	1.2E+01	1.0E+02	No	-	No
LU7	Sb	0	8.70E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-04	5.4E-04	2.0E-04	Yes	7.5E+00	No
LU7	Sc	0	1.65E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	1.0E-02	1.0E-01	No	-	No
LU7	Se	0	3.58E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-03	2.2E-03	5.0E-04	Yes	8.0E+01	No
LU7	Sn	0	2.91E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-03	1.8E-03	1.0E-03	Yes	9.4E+03	No
LU7	Sr	0	2.68E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-01	1.7E-01	1.0E-03	Yes	9.4E+03	No
LU7	Ta	0	8.92E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E-04	5.5E-04	5.0E-02	No	-	No
LU7	Te	0	2.65E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-04	1.6E-04	5.0E-02	No	-	No
LU7	Th	0	1.39E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.6E-03	8.6E-03	1.0E-02	No	-	No
LU7	Ti	0	5.21E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-01	3.2E-01	5.0E+01	No	2.8E+04	No
LU7	Tl	0.102	1.48E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.1E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU7	U	0.289	2.02E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	3.0E-01	5.0E-05	Yes	2.3E+01	No
LU7	V	30.95	3.25E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU7	W	0	4.60E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-03	2.8E-03	1.0E-01	No	-	No
LU7	Y	0	4.25E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-02	2.6E-02	1.0E-01	No	-	No
LU7	Zn	21.99	3.44E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU7	Zr	0	1.73E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	5.0E-01	No	1.3E+00	No
LU7	Hg	0	8.25E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.1E-05	5.1E-05	5.0E-05	Yes	6.6E+00	No
LU8	Ag	0	7.14E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-04	4.4E-04	2.0E-04	Yes	7.7E+01	No
LU8	Al	8114	6.16E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU8	As	2.179	8.51E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU8	Ba	58.41	7.24E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
LU8	Be	0.29	2.84E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU8	Bi	0	3.11E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-04	1.9E-04	1.0E-03	No	-	No
LU8	Ca	0	4.09E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.5E+01	2.5E+01	5.0E-02	Yes	-	No
LU8	Cd	0	1.85E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.1E-03	1.0E-04	Yes	1.4E+00	No
LU8	Ce	0	7.22E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-02	4.5E-02	1.0E-02	Yes	-	No
LU8	Co	5.96	2.44E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU8	Cr	36.75	2.07E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU8	Cs	0	4.51E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-03	2.8E-03	5.0E-02	No	-	No
LU8	Cu	5.18	8.58E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
LU8	Fe	0	2.66E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E+02	1.6E+02	5.0E-02	Yes	1.1E+04	No
LU8	Ga	0	1.66E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	1.0E-02	5.0E-02	No	-	No
LU8	Ge	0	3.33E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-04	2.1E-04	5.0E-02	No	-	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
LU8	Hf	0	3.21E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-03	2.0E-03	1.0E-01	No	-	No
LU8	In	0	5.81E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-05	3.6E-05	5.0E-03	No	-	No
LU8	K	0	2.54E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E+01	1.6E+01	2.0E-01	Yes	-	No
LU8	La	0	3.57E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-02	2.2E-02	5.0E-01	No	7.8E-01	No
LU8	Li	0	2.65E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-02	1.6E-02	2.0E-01	No	-	No
LU8	Mg	0	3.30E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E+01	2.0E+01	5.0E-02	Yes	-	No
LU8	Mn	673.2	5.86E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
LU8	Mo	0.917	2.61E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-02	9.3E-01	5.0E-04	Yes	1.1E+02	No
LU8	Na	0	1.09E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.8E+00	6.8E+00	5.0E-02	Yes	-	No
LU8	Nb	0	1.09E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.7E-03	6.7E-03	1.0E-01	No	-	No
LU8	Ni	15.15	7.35E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU8	P	0	1.25E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.7E-01	7.7E-01	5.0E-02	Yes	-	No
LU8	Pb	5.332	2.21E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-02	5.3E+00	1.0E-03	Yes	1.4E+02	No
LU8	Rb	0	9.44E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.8E-02	5.8E-02	1.0E-01	No	-	No
LU8	Re	0	1.24E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.7E-06	7.7E-06	2.0E-03	No	-	No
LU8	S	0	1.32E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.2E+00	8.2E+00	1.0E+02	No	-	No
LU8	Sb	0	6.15E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.8E-04	3.8E-04	2.0E-04	Yes	7.5E+00	No
LU8	Sc	0	1.17E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.2E-03	7.2E-03	1.0E-01	No	-	No
LU8	Se	0	2.53E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E-03	1.6E-03	5.0E-04	Yes	8.0E+01	No
LU8	Sn	0	2.06E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-03	1.3E-03	1.0E-03	Yes	9.4E+03	No
LU8	Sr	0	1.89E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-01	1.2E-01	1.0E-03	Yes	9.4E+03	No
LU8	Ta	0	6.31E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-04	3.9E-04	5.0E-02	No	-	No
LU8	Te	0	1.87E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-04	1.2E-04	5.0E-02	No	-	No
LU8	Th	0	9.84E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.1E-03	6.1E-03	1.0E-02	No	-	No
LU8	Ti	0	3.69E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-01	2.3E-01	5.0E+01	No	2.8E+04	No
LU8	Tl	0.102	1.05E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU8	U	0.289	1.43E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.8E-03	3.0E-01	5.0E-05	Yes	2.3E+01	No
LU8	V	30.95	2.30E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU8	W	0	3.25E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-03	2.0E-03	1.0E-01	No	-	No
LU8	Y	0	3.01E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-02	1.9E-02	1.0E-01	No	-	No
LU8	Zn	21.99	2.43E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU8	Zr	0	1.22E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.5E-02	7.5E-02	5.0E-01	No	1.3E+00	No
LU8	Hg	0	5.83E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-05	3.6E-05	5.0E-05	No	6.6E+00	No
LU9	Ag	0	6.76E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.2E-04	4.2E-04	2.0E-04	Yes	7.7E+01	No
LU9	Al	8114	5.83E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E+01	8.2E+03	5.0E-02	Yes	1.5E+04	No
LU9	As	2.179	8.05E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU9	Ba	58.41	6.86E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.2E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
LU9	Be	0.29	2.69E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-03	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU9	Bi	0	2.95E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-04	1.8E-04	1.0E-03	No	-	No
LU9	Ca	0	3.87E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E+01	2.4E+01	5.0E-02	Yes	-	No
LU9	Cd	0	1.75E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.1E-03	1.0E-04	Yes	1.4E+00	No
LU9	Ce	0	6.84E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.2E-02	4.2E-02	1.0E-02	Yes	-	No
LU9	Co	5.96	2.31E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU9	Cr	36.75	1.96E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU9	Cs	0	4.27E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-03	2.6E-03	5.0E-02	No	-	No
LU9	Cu	5.18	8.13E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
LU9	Fe	0	2.52E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.6E+02	1.6E+02	5.0E-02	Yes	1.1E+04	No
LU9	Ga	0	1.57E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.7E-03	9.7E-03	5.0E-02	No	-	No
LU9	Ge	0	3.15E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-04	1.9E-04	5.0E-02	No	-	No
LU9	Hf	0	3.04E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-03	1.9E-03	1.0E-01	No	-	No
LU9	In	0	5.50E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-05	3.4E-05	5.0E-03	No	-	No
LU9	K	0	2.40E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E+01	1.5E+01	2.0E-01	Yes	-	No
LU9	La	0	3.38E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-02	2.1E-02	5.0E-01	No	7.8E-01	No
LU9	Li	0	2.51E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	1.5E-02	2.0E-01	No	-	No
LU9	Mg	0	3.13E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E+01	1.9E+01	5.0E-02	Yes	-	No
LU9	Mn	673.2	5.55E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E+00	6.8E+02	1.0E-03	Yes	3.6E+02	Yes
LU9	Mo	0.917	2.47E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-02	9.3E-01	5.0E-04	Yes	1.1E+02	No
LU9	Na	0	1.04E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E+00	6.4E+00	5.0E-02	Yes	-	No
LU9	Nb	0	1.03E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-03	6.4E-03	1.0E-01	No	-	No
LU9	Ni	15.15	6.96E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.3E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU9	P	0	1.19E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.3E-01	7.3E-01	5.0E-02	Yes	-	No
LU9	Pb	5.332	2.09E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-02	5.3E+00	1.0E-03	Yes	1.4E+02	No
LU9	Rb	0	8.93E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.5E-02	5.5E-02	1.0E-01	No	-	No
LU9	Re	0	1.18E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.3E-06	7.3E-06	2.0E-03	No	-	No
LU9	S	0	1.25E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.7E+00	7.7E+00	1.0E+02	No	-	No
LU9	Sb	0	5.82E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-04	3.6E-04	2.0E-04	Yes	7.5E+00	No
LU9	Sc	0	1.11E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.8E-03	6.8E-03	1.0E-01	No	-	No
LU9	Se	0	2.40E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-03	1.5E-03	5.0E-04	Yes	8.0E+01	No
LU9	Sn	0	1.95E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-03	1.2E-03	1.0E-03	Yes	9.4E+03	No
LU9	Sr	0	1.79E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	1.0E-03	Yes	9.4E+03	No
LU9	Ta	0	5.97E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E-04	3.7E-04	5.0E-02	No	-	No
LU9	Te	0	1.77E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-04	1.1E-04	5.0E-02	No	-	No
LU9	Th	0	9.32E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.8E-03	5.8E-03	1.0E-02	No	-	No
LU9	Ti	0	3.49E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-01	2.2E-01	5.0E+01	No	2.8E+04	No
LU9	Tl	0.102	9.92E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.1E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU9	U	0.289	1.36E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.4E-03	3.0E-01	5.0E-05	Yes	2.3E+01	No
LU9	V	30.95	2.18E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU9	W	0	3.08E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-03	1.9E-03	1.0E-01	No	-	No
LU9	Y	0	2.85E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-02	1.8E-02	1.0E-01	No	-	No
LU9	Zn	21.99	2.30E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-01	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU9	Zr	0	1.16E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.1E-02	7.1E-02	5.0E-01	No	1.3E+00	No
LU9	Hg	0	5.52E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.4E-05	3.4E-05	5.0E-05	No	6.6E+00	No
LU10	Ag	0	2.82E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-04	1.7E-04	2.0E-04	No	7.7E+01	No
LU10	Al	8114	2.43E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E+01	8.1E+03	5.0E-02	Yes	1.5E+04	No
LU10	As	2.179	3.36E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-03	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU10	Ba	58.41	2.86E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-01	5.9E+01	5.0E-04	Yes	6.8E+03	No
LU10	Be	0.29	1.12E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.9E-04	2.9E-01	2.0E-04	Yes	7.5E+01	No
LU10	Bi	0	1.23E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.6E-05	7.6E-05	1.0E-03	No	-	No
LU10	Ca	0	1.62E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E+01	1.0E+01	5.0E-02	Yes	-	No
LU10	Cd	0	7.29E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-04	4.5E-04	1.0E-04	Yes	1.4E+00	No
LU10	Ce	0	2.85E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-02	1.8E-02	1.0E-02	Yes	-	No
LU10	Co	5.96	9.66E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.0E-03	6.0E+00	1.0E-04	Yes	2.2E+01	No
LU10	Cr	36.75	8.17E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-02	3.7E+01	1.0E-03	Yes	2.2E+02	No
LU10	Cs	0	1.78E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.1E-03	5.0E-02	No	-	No
LU10	Cu	5.18	3.39E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.1E-02	5.2E+00	5.0E-04	Yes	1.1E+03	No
LU10	Fe	0	1.05E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E+01	6.5E+01	5.0E-02	Yes	1.1E+04	No
LU10	Ga	0	6.56E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-03	4.0E-03	5.0E-02	No	-	No
LU10	Ge	0	1.31E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.1E-05	8.1E-05	5.0E-02	No	-	No
LU10	Hf	0	1.27E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-04	7.8E-04	1.0E-01	No	-	No
LU10	In	0	2.30E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-05	1.4E-05	5.0E-03	No	-	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
LU10	K	0	1.00E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.2E+00	6.2E+00	2.0E-01	Yes	-	No
LU10	La	0	1.41E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.7E-03	8.7E-03	5.0E-01	No	7.8E-01	No
LU10	Li	0	1.05E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-03	6.5E-03	2.0E-01	No	-	No
LU10	Mg	0	1.31E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.1E+00	8.1E+00	5.0E-02	Yes	-	No
LU10	Mn	673.2	2.32E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+00	6.7E+02	1.0E-03	Yes	3.6E+02	Yes
LU10	Mo	0.917	1.03E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.4E-03	9.2E-01	5.0E-04	Yes	1.1E+02	No
LU10	Na	0	4.32E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E+00	2.7E+00	5.0E-02	Yes	-	No
LU10	Nb	0	4.32E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-03	2.7E-03	1.0E-01	No	-	No
LU10	Ni	15.15	2.90E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-02	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU10	P	0	4.95E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-01	3.1E-01	5.0E-02	Yes	-	No
LU10	Pb	5.332	8.74E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-03	5.3E+00	1.0E-03	Yes	1.4E+02	No
LU10	Rb	0	3.73E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-02	2.3E-02	1.0E-01	No	-	No
LU10	Re	0	4.91E-06	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-06	3.0E-06	2.0E-03	No	-	No
LU10	S	0	5.22E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E+00	3.2E+00	1.0E+02	No	-	No
LU10	Sb	0	2.43E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-04	1.5E-04	2.0E-04	No	7.5E+00	No
LU10	Sc	0	4.62E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.9E-03	2.9E-03	1.0E-01	No	-	No
LU10	Se	0	1.00E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.2E-04	6.2E-04	5.0E-04	Yes	8.0E+01	No
LU10	Sn	0	8.12E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E-04	5.0E-04	1.0E-03	No	9.4E+03	No
LU10	Sr	0	7.48E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.6E-02	4.6E-02	1.0E-03	Yes	9.4E+03	No
LU10	Ta	0	2.49E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E-04	1.5E-04	5.0E-02	No	-	No
LU10	Te	0	7.41E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.6E-05	4.6E-05	5.0E-02	No	-	No
LU10	Th	0	3.89E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-03	2.4E-03	1.0E-02	No	-	No
LU10	Ti	0	1.46E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.0E-02	9.0E-02	5.0E+01	No	2.8E+04	No
LU10	Tl	0.102	4.14E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.6E-04	1.0E-01	5.0E-05	Yes	1.0E+00	No
LU10	U	0.289	5.66E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-03	2.9E-01	5.0E-05	Yes	2.3E+01	No
LU10	V	30.95	9.08E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.6E-02	3.1E+01	5.0E-03	Yes	3.9E+01	No
LU10	W	0	1.29E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.9E-04	7.9E-04	1.0E-01	No	-	No
LU10	Y	0	1.19E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.3E-03	7.3E-03	1.0E-01	No	-	No
LU10	Zn	21.99	9.60E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.9E-02	2.2E+01	5.0E-03	Yes	1.0E+04	No
LU10	Zr	0	4.83E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-02	3.0E-02	5.0E-01	No	1.3E+00	No
LU10	Hg	0	2.31E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-05	1.4E-05	5.0E-05	No	6.6E+00	No
LU11	Ag	0	4.36E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-03	2.7E-03	2.0E-04	Yes	7.7E+01	No
LU11	Al	8114	3.76E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E+02	8.3E+03	5.0E-02	Yes	1.5E+04	No
LU11	As	2.179	5.19E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-02	2.2E+00	1.0E-03	Yes	1.2E+01	No
LU11	Ba	58.41	4.42E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E+00	6.1E+01	5.0E-04	Yes	6.8E+03	No
LU11	Be	0.29	1.74E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-02	3.0E-01	2.0E-04	Yes	7.5E+01	No
LU11	Bi	0	1.90E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-03	1.2E-03	1.0E-03	Yes	-	No
LU11	Ca	0	2.50E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.5E+02	1.5E+02	5.0E-02	Yes	-	No
LU11	Cd	0	1.13E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.0E-03	7.0E-03	1.0E-04	Yes	1.4E+00	No
LU11	Ce	0	4.41E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-01	2.7E-01	1.0E-02	Yes	-	No
LU11	Co	5.96	1.49E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.2E-02	6.1E+00	1.0E-04	Yes	2.2E+01	No
LU11	Cr	36.75	1.26E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-01	3.8E+01	1.0E-03	Yes	2.2E+02	No
LU11	Cs	0	2.75E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.7E-02	1.7E-02	5.0E-02	No	-	No
LU11	Cu	5.18	5.24E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.2E-01	5.5E+00	5.0E-04	Yes	1.1E+03	No
LU11	Fe	0	1.63E+03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E+03	1.0E+03	5.0E-02	Yes	1.1E+04	No
LU11	Ga	0	1.01E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.3E-02	6.3E-02	5.0E-02	Yes	-	No
LU11	Ge	0	2.03E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-03	1.3E-03	5.0E-02	No	-	No
LU11	Hf	0	1.96E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-02	1.2E-02	1.0E-01	No	-	No
LU11	In	0	3.55E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-04	2.2E-04	5.0E-03	No	-	No
LU11	K	0	1.55E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.6E+01	9.6E+01	2.0E-01	Yes	-	No
LU11	La	0	2.18E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E-01	1.3E-01	5.0E-01	No	7.8E-01	No
LU11	Li	0	1.62E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-01	1.0E-01	2.0E-01	No	-	No
LU11	Mg	0	2.02E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+02	1.2E+02	5.0E-02	Yes	-	No
LU11	Mn	673.2	3.58E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E+01	7.0E+02	1.0E-03	Yes	3.6E+02	Yes
LU11	Mo	0.917	1.59E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.8E-02	1.0E+00	5.0E-04	Yes	1.1E+02	No
LU11	Na	0	6.68E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.1E+01	4.1E+01	5.0E-02	Yes	-	No
LU11	Nb	0	6.67E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.1E-02	4.1E-02	1.0E-01	No	-	No
LU11	Ni	15.15	4.49E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.8E-01	1.5E+01	5.0E-04	Yes	2.0E+02	No
LU11	P	0	7.65E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E+00	4.7E+00	5.0E-02	Yes	-	No
LU11	Pb	5.332	1.35E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.3E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
LU11	Rb	0	5.76E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.6E-01	3.6E-01	1.0E-01	Yes	-	No
LU11	Re	0	7.58E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.7E-05	4.7E-05	2.0E-03	No	-	No
LU11	S	0	8.07E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.0E+01	5.0E+01	1.0E+02	No	-	No
LU11	Sb	0	3.76E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-03	2.3E-03	2.0E-04	Yes	7.5E+00	No
LU11	Sc	0	7.14E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.4E-02	4.4E-02	1.0E-01	No	-	No
LU11	Se	0	1.55E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.6E-03	9.6E-03	5.0E-04	Yes	8.0E+01	No
LU11	Sn	0	1.26E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-03	7.8E-03	1.0E-03	Yes	9.4E+03	No
LU11	Sr	0	1.16E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.1E-01	7.1E-01	1.0E-03	Yes	9.4E+03	No
LU11	Ta	0	3.85E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.4E-03	2.4E-03	5.0E-02	No	-	No
LU11	Te	0	1.14E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.1E-04	7.1E-04	5.0E-02	No	-	No
LU11	Th	0	6.01E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E-02	3.7E-02	1.0E-02	Yes	-	No
LU11	Ti	0	2.25E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E+00	1.4E+00	5.0E+01	No	2.8E+04	No
LU11	Tl	0.102	6.40E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E-03	1.1E-01	5.0E-05	Yes	1.0E+00	No
LU11	U	0.289	8.75E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.4E-02	3.4E-01	5.0E-05	Yes	2.3E+01	No
LU11	V	30.95	1.40E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.7E-01	3.2E+01	5.0E-03	Yes	3.9E+01	No
LU11	W	0	1.99E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E-02	1.2E-02	1.0E-01	No	-	No
LU11	Y	0	1.84E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	1.0E-01	Yes	-	No
LU11	Zn	21.99	1.48E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.2E-01	2.3E+01	5.0E-03	Yes	1.0E+04	No
LU11	Zr	0	7.46E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.6E-01	4.6E-01	5.0E-01	No	1.3E+00	No
LU11	Hg	0	3.56E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.2E-04	2.2E-04	5.0E-05	Yes	6.6E+00	No
Cabin_Max	Ag	0	3.67E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-03	2.3E-03	2.0E-04	Yes	7.7E+01	No
Cabin_Max	Al	8114	3.16E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E+02	8.3E+03	5.0E-02	Yes	1.5E+04	No
Cabin_Max	As	2.179	4.37E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-02	2.2E+00	1.0E-03	Yes	1.2E+01	No
Cabin_Max	Ba	58.41	3.72E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E+00	6.1E+01	5.0E-04	Yes	6.8E+03	No
Cabin_Max	Be	0.29	1.46E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.0E-03	3.0E-01	2.0E-04	Yes	7.5E+01	No
Cabin_Max	Bi	0	1.60E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.9E-04	9.9E-04	1.0E-03	No	-	No
Cabin_Max	Ca	0	2.10E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.3E+02	1.3E+02	5.0E-02	Yes	-	No
Cabin_Max	Cd	0	9.48E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.9E-03	5.9E-03	1.0E-04	Yes	1.4E+00	No
Cabin_Max	Ce	0	3.71E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-01	2.3E-01	1.0E-02	Yes	-	No
Cabin_Max	Co	5.96	1.26E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.8E-02	6.0E+00	1.0E-04	Yes	2.2E+01	No
Cabin_Max	Cr	36.75	1.06E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.6E-01	3.7E+01	1.0E-03	Yes	2.2E+02	No
Cabin_Max	Cs	0	2.31E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.4E-02	1.4E-02	5.0E-02	No	-	No
Cabin_Max	Cu	5.18	4.41E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.7E-01	5.5E+00	5.0E-04	Yes	1.1E+03	No
Cabin_Max	Fe	0	1.37E+03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.4E+02	8.4E+02	5.0E-02	Yes	1.1E+04	No
Cabin_Max	Ga	0	8.52E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.3E-02	5.3E-02	5.0E-02	Yes	-	No
Cabin_Max	Ge	0	1.71E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-03	1.1E-03	5.0E-02	No	-	No
Cabin_Max	Hf	0	1.65E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	1.0E-02	1.0E-01	No	-	No
Cabin_Max	In	0	2.98E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.8E-04	1.8E-04	5.0E-03	No	-	No
Cabin_Max	K	0	1.30E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.0E+01	8.0E+01	2.0E-01	Yes	-	No
Cabin_Max	La	0	1.83E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.1E-01	1.1E-01	5.0E-01	No	7.8E-01	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
Cabin_Max	Li	0	1.36E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.4E-02	8.4E-02	2.0E-01	No	-	No
Cabin_Max	Mg	0	1.70E+02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E+02	1.0E+02	5.0E-02	Yes	-	No
Cabin_Max	Mn	673.2	3.01E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E+01	6.9E+02	1.0E-03	Yes	3.6E+02	Yes
Cabin_Max	Mo	0.917	1.34E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.3E-02	1.0E+00	5.0E-04	Yes	1.1E+02	No
Cabin_Max	Na	0	5.62E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E+01	3.5E+01	5.0E-02	Yes	-	No
Cabin_Max	Nb	0	5.61E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.5E-02	3.5E-02	1.0E-01	No	-	No
Cabin_Max	Ni	15.15	3.77E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.3E-01	1.5E+01	5.0E-04	Yes	2.0E+02	No
Cabin_Max	P	0	6.44E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.0E+00	4.0E+00	5.0E-02	Yes	-	No
Cabin_Max	Pb	5.332	1.14E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.0E-02	5.4E+00	1.0E-03	Yes	1.4E+02	No
Cabin_Max	Rb	0	4.85E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.0E-01	3.0E-01	1.0E-01	Yes	-	No
Cabin_Max	Re	0	6.38E-05	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-05	3.9E-05	2.0E-03	No	-	No
Cabin_Max	S	0	6.78E+01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.2E+01	4.2E+01	1.0E+02	No	-	No
Cabin_Max	Sb	0	3.16E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-03	2.0E-03	2.0E-04	Yes	7.5E+00	No
Cabin_Max	Sc	0	6.01E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.7E-02	3.7E-02	1.0E-01	No	-	No
Cabin_Max	Se	0	1.30E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	8.0E-03	8.0E-03	5.0E-04	Yes	8.0E+01	No
Cabin_Max	Sn	0	1.06E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.5E-03	6.5E-03	1.0E-03	Yes	9.4E+03	No
Cabin_Max	Sr	0	9.72E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	6.0E-01	6.0E-01	1.0E-03	Yes	9.4E+03	No
Cabin_Max	Ta	0	3.24E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	2.0E-03	2.0E-03	5.0E-02	No	-	No
Cabin_Max	Te	0	9.63E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	5.9E-04	5.9E-04	5.0E-02	No	-	No
Cabin_Max	Th	0	5.05E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.1E-02	3.1E-02	1.0E-02	Yes	-	No
Cabin_Max	Ti	0	1.89E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.2E+00	1.2E+00	5.0E+01	No	2.8E+04	No
Cabin_Max	Tl	0.102	5.38E-03	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.3E-03	1.1E-01	5.0E-05	Yes	1.0E+00	No
Cabin_Max	U	0.289	7.36E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	4.5E-02	3.3E-01	5.0E-05	Yes	2.3E+01	No
Cabin_Max	V	30.95	1.18E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.3E-01	3.2E+01	5.0E-03	Yes	3.9E+01	No
Cabin_Max	W	0	1.67E-02	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.0E-02	1.0E-02	1.0E-01	No	-	No
Cabin_Max	Y	0	1.55E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	9.5E-02	9.5E-02	1.0E-01	No	-	No
Cabin_Max	Zn	21.99	1.25E+00	1.5E+03	2.0E-02	2.6E+01	2.8E-02	7.7E-01	2.3E+01	5.0E-03	Yes	1.0E+04	No
Cabin_Max	Zr	0	6.27E-01	1.5E+03	2.0E-02	2.6E+01	2.8E-02	3.9E-01	3.9E-01	5.0E-01	No	1.3E+00	No
Cabin_Max	Hg	0	3.00E-04	1.5E+03	2.0E-02	2.6E+01	2.8E-02	1.9E-04	1.9E-04	5.0E-05	Yes	6.6E+00	No
L1	Naphth	0	1.28E-04	1.50E+03	2.00E-02	2.60E+01	5.27E+00	8.10E-07	8.10E-07	5.00E-03	No	1.80E+03	No
L2	Naphth	0	9.09E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	5.75E-07	5.75E-07	5.00E-03	No	1.80E+03	No
R1	Naphth	0	1.75E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	1.11E-07	1.11E-07	5.00E-03	No	1.80E+03	No
R2	Naphth	0	1.54E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	9.71E-08	9.71E-08	5.00E-03	No	1.80E+03	No
R3	Naphth	0	1.07E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	6.79E-08	6.79E-08	5.00E-03	No	1.80E+03	No
S1	Naphth	0	1.56E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	9.88E-08	9.88E-08	5.00E-03	No	1.80E+03	No
S2	Naphth	0	1.43E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	9.03E-08	9.03E-08	5.00E-03	No	1.80E+03	No
S3	Naphth	0	1.02E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	6.44E-08	6.44E-08	5.00E-03	No	1.80E+03	No
H1	Naphth	0	8.49E-06	1.50E+03	2.00E-02	2.60E+01	5.27E+00	5.37E-08	5.37E-08	5.00E-03	No	1.80E+03	No
LU1	Naphth	0	5.56E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	3.52E-07	3.52E-07	5.00E-03	No	1.80E+03	No
LU2	Naphth	0	5.76E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	3.64E-07	3.64E-07	5.00E-03	No	1.80E+03	No
LU3	Naphth	0	3.02E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	1.91E-07	1.91E-07	5.00E-03	No	1.80E+03	No
LU4	Naphth	0	2.84E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	1.80E-07	1.80E-07	5.00E-03	No	1.80E+03	No
LU5	Naphth	0	1.36E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	8.59E-08	8.59E-08	5.00E-03	No	1.80E+03	No
LU6	Naphth	0	1.55E-04	1.50E+03	2.00E-02	2.60E+01	5.27E+00	9.81E-07	9.81E-07	5.00E-03	No	1.80E+03	No
LU7	Naphth	0	2.00E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	1.26E-07	1.26E-07	5.00E-03	No	1.80E+03	No
LU8	Naphth	0	2.90E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	1.83E-07	1.83E-07	5.00E-03	No	1.80E+03	No
LU9	Naphth	0	1.24E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	7.81E-08	7.81E-08	5.00E-03	No	1.80E+03	No
LU10	Naphth	0	8.94E-06	1.50E+03	2.00E-02	2.60E+01	5.27E+00	5.66E-08	5.66E-08	5.00E-03	No	1.80E+03	No
LU11	Naphth	0	1.07E-04	1.50E+03	2.00E-02	2.60E+01	5.27E+00	6.77E-07	6.77E-07	5.00E-03	No	1.80E+03	No
Cabin_Max	Naphth	0	2.00E-04	1.50E+03	2.00E-02	2.60E+01	5.27E+00	1.26E-06	1.26E-06	5.00E-03	No	1.80E+03	No
L1	BaPTPE	0	6.38E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	4.43E-08	4.43E-08	5.00E-03	No	5.30E+00	No
L2	BaPTPE	0	4.36E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	3.03E-08	3.03E-08	5.00E-03	No	5.30E+00	No
R1	BaPTPE	0	9.56E-08	1.50E+03	2.00E-02	2.60E+01	4.80E-01	6.64E-09	6.64E-09	5.00E-03	No	5.30E+00	No
R2	BaPTPE	0	8.27E-08	1.50E+03	2.00E-02	2.60E+01	4.80E-01	5.75E-09	5.75E-09	5.00E-03	No	5.30E+00	No
R3	BaPTPE	0	1.99E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	1.38E-08	1.38E-08	5.00E-03	No	5.30E+00	No
S1	BaPTPE	0	8.49E-08	1.50E+03	2.00E-02	2.60E+01	4.80E-01	5.90E-09	5.90E-09	5.00E-03	No	5.30E+00	No
S2	BaPTPE	0	7.70E-08	1.50E+03	2.00E-02	2.60E+01	4.80E-01	5.34E-09	5.34E-09	5.00E-03	No	5.30E+00	No
S3	BaPTPE	0	1.74E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	1.20E-08	1.20E-08	5.00E-03	No	5.30E+00	No
H1	BaPTPE	0	5.24E-08	1.50E+03	2.00E-02	2.60E+01	4.80E-01	3.64E-09	3.64E-09	5.00E-03	No	5.30E+00	No
LU1	BaPTPE	0	2.50E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	1.73E-08	1.73E-08	5.00E-03	No	5.30E+00	No
LU2	BaPTPE	0	3.03E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	2.10E-08	2.10E-08	5.00E-03	No	5.30E+00	No
LU3	BaPTPE	0	1.69E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	1.17E-08	1.17E-08	5.00E-03	No	5.30E+00	No
LU4	BaPTPE	0	1.65E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	1.15E-08	1.15E-08	5.00E-03	No	5.30E+00	No
LU5	BaPTPE	0	1.45E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	1.01E-08	1.01E-08	5.00E-03	No	5.30E+00	No
LU6	BaPTPE	0	6.65E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	4.62E-08	4.62E-08	5.00E-03	No	5.30E+00	No
LU7	BaPTPE	0	1.39E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	9.66E-09	9.66E-09	5.00E-03	No	5.30E+00	No
LU8	BaPTPE	0	1.63E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	1.13E-08	1.13E-08	5.00E-03	No	5.30E+00	No
LU9	BaPTPE	0	7.83E-08	1.50E+03	2.00E-02	2.60E+01	4.80E-01	5.44E-09	5.44E-09	5.00E-03	No	5.30E+00	No
LU10	BaPTPE	0	5.80E-08	1.50E+03	2.00E-02	2.60E+01	4.80E-01	4.02E-09	4.02E-09	5.00E-03	No	5.30E+00	No
LU11	BaPTPE	0	5.28E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	3.66E-08	3.66E-08	5.00E-03	No	5.30E+00	No
Cabin_Max	BaPTPE	0	9.08E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	6.31E-08	6.31E-08	5.00E-03	No	5.30E+00	No
LU12	Ag	0	8.74E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.40E-03	5.40E-03	2.00E-04	Yes	7.70E+01	No
LU12	Al	8114	7.54E+02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.65E+02	8.58E+03	5.00E-02	Yes	1.54E+04	No
LU12	As	2.179	1.04E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	6.43E-02	2.24E+00	1.00E-03	Yes	1.20E+01	No
LU12	Ba	58.41	8.87E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.47E+00	6.39E+01	5.00E-04	Yes	6.80E+03	No
LU12	Be	0.29	3.48E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.15E-02	3.11E-01	2.00E-04	Yes	7.50E+01	No
LU12	Bi	0	3.81E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.35E-03	2.35E-03	1.00E-03	Yes	-	No
LU12	Ca	0	5.01E+02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.09E+02	3.09E+02	5.00E-02	Yes	-	No
LU12	Cd	0	2.26E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.39E-02	1.39E-02	1.00E-04	Yes	1.40E+00	No
LU12	Ce	0	8.84E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.46E-01	5.46E-01	1.00E-02	Yes	-	No
LU12	Co	5.96	2.99E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.85E-01	6.14E+00	1.00E-04	Yes	2.20E+01	No
LU12	Cr	36.75	2.53E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.56E+00	3.83E+01	1.00E-03	Yes	2.20E+02	No
LU12	Cs	0	5.51E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.40E-02	3.40E-02	5.00E-02	No	-	No
LU12	Cu	5.18	1.05E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	6.49E-01	5.83E+00	5.00E-04	Yes	1.10E+03	No
LU12	Fe	0	3.26E+03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.01E+03	2.01E+03	5.00E-02	Yes	1.10E+04	No
LU12	Ga	0	2.03E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.25E-01	1.25E-01	5.00E-02	Yes	-	No
LU12	Ge	0	4.07E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.51E-03	2.51E-03	5.00E-02	No	-	No
LU12	Hf	0	3.93E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.43E-02	2.43E-02	1.00E-01	No	-	No
LU12	In	0	7.11E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.39E-04	4.39E-04	5.00E-03	No	-	No
LU12	K	0	3.10E+02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.92E+02	1.92E+02	2.00E-01	Yes	-	No
LU12	La	0	4.37E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.70E-01	2.70E-01	5.00E-01	No	7.80E-01	No
LU12	Li	0	3.24E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.00E-01	2.00E-01	2.00E-01	Yes	-	No
LU12	Mg	0	4.04E+02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.50E+02	2.50E+02	5.00E-02	Yes	-	No
LU12	Mn	673.2	7.17E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.43E+01	7.17E+02	1.00E-03	Yes	3.60E+02	Yes
LU12	Mo	0.917	3.19E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.97E-01	1.11E+00	5.00E-04	Yes	1.10E+02	No
LU12	Na	0	1.34E+02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	8.27E+01	8.27E+01	5.00E-02	Yes	-	No
LU12	Nb	0	1.34E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	8.26E-02	8.26E-02	1.00E-01	No	-	No
LU12	Ni	15.15	8.99E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.55E-01	1.57E+01	5.00E-04	Yes	2.00E+02	No
LU12	P	0	1.53E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	9.47E+00	9.47E+00	5.00E-02	Yes	-	No
LU12	Pb	5.332	2.71E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.67E-01	5.50E+00	1.00E-03	Yes	1.40E+02	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
LU12	Rb	0	1.15E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	7.13E-01	7.13E-01	1.00E-01	Yes	-	No
LU12	Re	0	1.52E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	9.38E-05	9.38E-05	2.00E-03	No	-	No
LU12	S	0	1.62E+02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	9.98E+01	9.98E+01	1.00E+02	No	-	No
LU12	Sb	0	7.53E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.65E-03	4.65E-03	2.00E-04	Yes	7.50E+00	No
LU12	Sc	0	1.43E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	8.84E-02	8.84E-02	1.00E-01	No	-	No
LU12	Se	0	3.10E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.92E-02	1.92E-02	5.00E-04	Yes	8.00E+01	No
LU12	Sn	0	2.52E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.55E-02	1.55E-02	1.00E-03	Yes	9.40E+03	No
LU12	Sr	0	2.32E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.43E+00	1.43E+00	1.00E-03	Yes	9.40E+03	No
LU12	Ta	0	7.72E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.77E-03	4.77E-03	5.00E-02	No	-	No
LU12	Te	0	2.29E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.42E-03	1.42E-03	5.00E-02	No	-	No
LU12	Th	0	1.20E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	7.44E-02	7.44E-02	1.00E-02	Yes	-	No
LU12	Ti	0	4.51E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.79E+00	2.79E+00	5.00E+01	No	2.80E+04	No
LU12	Tl	0.102	1.28E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	7.92E-03	1.10E-01	5.00E-05	Yes	1.00E+00	No
LU12	U	0.289	1.75E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.08E-01	3.97E-01	5.00E-05	Yes	2.30E+01	No
LU12	V	30.95	2.81E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.74E+00	3.27E+01	5.00E-03	Yes	3.90E+01	No
LU12	W	0	3.98E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.46E-02	2.46E-02	1.00E-01	No	-	No
LU12	Y	0	3.68E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.27E-01	2.27E-01	1.00E-01	Yes	-	No
LU12	Zn	21.99	2.97E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.84E+00	2.38E+01	5.00E-03	Yes	1.00E+04	No
LU12	Zr	0	1.49E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	9.23E-01	9.23E-01	5.00E-01	Yes	1.26E+00	No
LU12	Hg	0	7.14E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.41E-04	4.41E-04	5.00E-05	Yes	6.60E+00	No
LU13	Ag	0	6.70E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.14E-04	4.14E-04	2.00E-04	Yes	7.70E+01	No
LU13	Al	8114	5.78E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.57E+01	8.15E+03	5.00E-02	Yes	1.54E+04	No
LU13	As	2.179	7.98E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.93E-03	2.18E+00	1.00E-03	Yes	1.20E+01	No
LU13	Ba	58.41	6.80E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.20E-01	5.88E+01	5.00E-04	Yes	6.80E+03	No
LU13	Be	0.29	2.67E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.65E-03	2.92E-01	2.00E-04	Yes	7.50E+01	No
LU13	Bi	0	2.92E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.80E-04	1.80E-04	1.00E-03	No	-	No
LU13	Ca	0	3.84E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.37E+01	2.37E+01	5.00E-02	Yes	-	No
LU13	Cd	0	1.73E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.07E-03	1.07E-03	1.00E-04	Yes	1.40E+00	No
LU13	Ce	0	6.78E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.19E-02	4.19E-02	1.00E-02	Yes	-	No
LU13	Co	5.96	2.29E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.42E-02	5.97E+00	1.00E-04	Yes	2.20E+01	No
LU13	Cr	36.75	1.94E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.20E-01	3.69E+01	1.00E-03	Yes	2.20E+02	No
LU13	Cs	0	4.23E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.61E-03	2.61E-03	5.00E-02	No	-	No
LU13	Cu	5.18	8.06E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.98E-02	5.23E+00	5.00E-04	Yes	1.10E+03	No
LU13	Fe	0	2.50E+02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.54E+02	1.54E+02	5.00E-02	Yes	1.10E+04	No
LU13	Ga	0	1.56E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	9.62E-03	9.62E-03	5.00E-02	No	-	No
LU13	Ge	0	3.12E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.93E-04	1.93E-04	5.00E-02	No	-	No
LU13	Hf	0	3.02E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.86E-03	1.86E-03	1.00E-01	No	-	No
LU13	In	0	5.45E-05	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.37E-05	3.37E-05	5.00E-03	No	-	No
LU13	K	0	2.38E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.47E+01	1.47E+01	2.00E-01	Yes	-	No
LU13	La	0	3.35E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.07E-02	2.07E-02	5.00E-01	No	7.80E-01	No
LU13	Li	0	2.49E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.54E-02	1.54E-02	2.00E-01	No	-	No
LU13	Mg	0	3.10E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.92E+01	1.92E+01	5.00E-02	Yes	-	No
LU13	Mn	673.2	5.50E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.40E+00	6.77E+02	1.00E-03	Yes	3.60E+02	Yes
LU13	Mo	0.917	2.45E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.51E-02	9.32E-01	5.00E-04	Yes	1.10E+02	No
LU13	Na	0	1.03E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	6.34E+00	6.34E+00	5.00E-02	Yes	-	No
LU13	Nb	0	1.03E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	6.33E-03	6.33E-03	1.00E-01	No	-	No
LU13	Ni	15.15	6.90E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.26E-02	1.52E+01	5.00E-04	Yes	2.00E+02	No
LU13	P	0	1.18E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	7.26E-01	7.26E-01	5.00E-02	Yes	-	No
LU13	Pb	5.332	2.08E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.28E-02	5.34E+00	1.00E-03	Yes	1.40E+02	No
LU13	Rb	0	8.86E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.47E-02	5.47E-02	1.00E-01	No	-	No
LU13	Re	0	1.17E-05	1.50E+03	2.00E-02	2.60E+01	2.77E-02	7.20E-06	7.20E-06	2.00E-03	No	-	No
LU13	S	0	1.24E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	7.66E+00	7.66E+00	1.00E+02	No	-	No
LU13	Sb	0	5.77E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.57E-04	3.57E-04	2.00E-04	Yes	7.50E+00	No
LU13	Sc	0	1.10E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	6.78E-03	6.78E-03	1.00E-01	No	-	No
LU13	Se	0	2.38E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.47E-03	1.47E-03	5.00E-04	Yes	8.00E+01	No
LU13	Sn	0	1.93E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.19E-03	1.19E-03	1.00E-03	Yes	9.40E+03	No
LU13	Sr	0	1.78E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.10E-01	1.10E-01	1.00E-03	Yes	9.40E+03	No
LU13	Ta	0	5.92E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.66E-04	3.66E-04	5.00E-02	No	-	No
LU13	Te	0	1.76E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.09E-04	1.09E-04	5.00E-02	No	-	No
LU13	Th	0	9.24E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.70E-03	5.70E-03	1.00E-02	No	-	No
LU13	Ti	0	3.46E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.14E-01	2.14E-01	5.00E+01	No	2.80E+04	No
LU13	Tl	0.102	9.83E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	6.07E-04	1.03E-01	5.00E-05	Yes	1.00E+00	No
LU13	U	0.289	1.34E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	8.30E-03	2.97E-01	5.00E-05	Yes	2.30E+01	No
LU13	V	30.95	2.16E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.33E-01	3.11E+01	5.00E-03	Yes	3.90E+01	No
LU13	W	0	3.05E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.89E-03	1.89E-03	1.00E-01	No	-	No
LU13	Y	0	2.82E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.74E-02	1.74E-02	1.00E-01	No	-	No
LU13	Zn	21.99	2.28E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.41E-01	2.21E+01	5.00E-03	Yes	1.00E+04	No
LU13	Zr	0	1.15E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	7.08E-02	7.08E-02	5.00E-01	No	1.26E+00	No
LU13	Hg	0	5.48E-05	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.38E-05	3.38E-05	5.00E-05	No	6.60E+00	No
LU14	Ag	0	5.08E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.14E-04	3.14E-04	2.00E-04	Yes	7.70E+01	No
LU14	Al	8114	4.38E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.71E+01	8.14E+03	5.00E-02	Yes	1.54E+04	No
LU14	As	2.179	6.05E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.74E-03	2.18E+00	1.00E-03	Yes	1.20E+01	No
LU14	Ba	58.41	5.16E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.18E-01	5.87E+01	5.00E-04	Yes	6.80E+03	No
LU14	Be	0.29	2.02E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.25E-03	2.91E-01	2.00E-04	Yes	7.50E+01	No
LU14	Bi	0	2.22E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.37E-04	1.37E-04	1.00E-03	No	-	No
LU14	Ca	0	2.91E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.80E+01	1.80E+01	5.00E-02	Yes	-	No
LU14	Cd	0	1.31E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	8.11E-04	8.11E-04	1.00E-04	Yes	1.40E+00	No
LU14	Ce	0	5.14E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.17E-02	3.17E-02	1.00E-02	Yes	-	No
LU14	Co	5.96	1.74E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.07E-02	5.97E+00	1.00E-04	Yes	2.20E+01	No
LU14	Cr	36.75	1.47E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	9.09E-02	3.68E+01	1.00E-03	Yes	2.20E+02	No
LU14	Cs	0	3.21E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.98E-03	1.98E-03	5.00E-02	No	-	No
LU14	Cu	5.18	6.11E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.77E-02	5.22E+00	5.00E-04	Yes	1.10E+03	No
LU14	Fe	0	1.90E+02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.17E+02	1.17E+02	5.00E-02	Yes	1.10E+04	No
LU14	Ga	0	1.18E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	7.29E-03	7.29E-03	5.00E-02	No	-	No
LU14	Ge	0	2.37E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.46E-04	1.46E-04	5.00E-02	No	-	No
LU14	Hf	0	2.29E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.41E-03	1.41E-03	1.00E-01	No	-	No
LU14	In	0	4.14E-05	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.55E-05	2.55E-05	5.00E-03	No	-	No
LU14	K	0	1.81E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.12E+01	1.12E+01	2.00E-01	Yes	-	No
LU14	La	0	2.54E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.57E-02	1.57E-02	5.00E-01	No	7.80E-01	No
LU14	Li	0	1.89E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.16E-02	1.16E-02	2.00E-01	No	-	No
LU14	Mg	0	2.35E+01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.45E+01	1.45E+01	5.00E-02	Yes	-	No
LU14	Mn	673.2	4.17E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.58E+00	6.76E+02	1.00E-03	Yes	3.60E+02	Yes
LU14	Mo	0.917	1.86E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.15E-02	9.28E-01	5.00E-04	Yes	1.10E+02	No
LU14	Na	0	7.79E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.81E+00	4.81E+00	5.00E-02	Yes	-	No
LU14	Nb	0	7.78E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.80E-03	4.80E-03	1.00E-01	No	-	No
LU14	Ni	15.15	5.23E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	3.23E-02	1.52E+01	5.00E-04	Yes	2.00E+02	No
LU14	P	0	8.92E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.51E-01	5.51E-01	5.00E-02	Yes	-	No
LU14	Pb	5.332	1.58E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	9.73E-03	5.34E+00	1.00E-03	Yes	1.40E+02	No
LU14	Rb	0	6.72E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.15E-02	4.15E-02	1.00E-01	No	-	No
LU14	Re	0	8.84E-06	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.46E-06	5.46E-06	2.00E-03	No	-	No

Table C1: Projected Soil Concentrations and COPC Screening

ReceptorID	Chemical	Baseline Soil [mg/kg]	Average Deposition [mg/m2/year]	Bulk Density Soil [kg/m3]	Surface Soil Depth [m]	Period Deposition [Years]	Soil Loss Constant [Year-1]	Deposition to Soil [mg/kg]	Total Soil [mg/kg]	Detection Limit [mg/kg]	Exceeds Detection Limit?	HH Criteria [mg/kg]	Exceeds Criteria?
LU14	S	0	9.40E+00	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.81E+00	5.81E+00	1.00E+02	No	-	No
LU14	Sb	0	4.38E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.70E-04	2.70E-04	2.00E-04	Yes	7.50E+00	No
LU14	Sc	0	8.33E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.14E-03	5.14E-03	1.00E-01	No	-	No
LU14	Se	0	1.80E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.11E-03	1.11E-03	5.00E-04	Yes	8.00E+01	No
LU14	Sn	0	1.46E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	9.04E-04	9.04E-04	1.00E-03	No	9.40E+03	No
LU14	Sr	0	1.35E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	8.32E-02	8.32E-02	1.00E-03	Yes	9.40E+03	No
LU14	Ta	0	4.49E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.77E-04	2.77E-04	5.00E-02	No	-	No
LU14	Te	0	1.33E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	8.24E-05	8.24E-05	5.00E-02	No	-	No
LU14	Th	0	7.01E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.33E-03	4.33E-03	1.00E-02	No	-	No
LU14	Ti	0	2.62E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.62E-01	1.62E-01	5.00E+01	No	2.80E+04	No
LU14	Tl	0.102	7.46E-04	1.50E+03	2.00E-02	2.60E+01	2.77E-02	4.61E-04	1.02E-01	5.00E-05	Yes	1.00E+00	No
LU14	U	0.289	1.02E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	6.30E-03	2.95E-01	5.00E-05	Yes	2.30E+01	No
LU14	V	30.95	1.64E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.01E-01	3.11E+01	5.00E-03	Yes	3.90E+01	No
LU14	W	0	2.32E-03	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.43E-03	1.43E-03	1.00E-01	No	-	No
LU14	Y	0	2.14E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.32E-02	1.32E-02	1.00E-01	No	-	No
LU14	Zn	21.99	1.73E-01	1.50E+03	2.00E-02	2.60E+01	2.77E-02	1.07E-01	2.21E+01	5.00E-03	Yes	1.00E+04	No
LU14	Zr	0	8.70E-02	1.50E+03	2.00E-02	2.60E+01	2.77E-02	5.37E-02	5.37E-02	5.00E-01	No	1.26E+00	No
LU14	Hg	0	4.15E-05	1.50E+03	2.00E-02	2.60E+01	2.77E-02	2.56E-05	2.56E-05	5.00E-05	No	6.60E+00	No
LU12	Naphth	0	2.67E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	1.69E-07	1.69E-07	5.00E-03	No	1.80E+03	No
LU13	Naphth	0	1.22E-05	1.50E+03	2.00E-02	2.60E+01	5.27E+00	7.72E-08	7.72E-08	5.00E-03	No	1.80E+03	No
LU14	Naphth	0	9.67E-06	1.50E+03	2.00E-02	2.60E+01	5.27E+00	6.12E-08	6.12E-08	5.00E-03	No	1.80E+03	No
LU12	BaPTPE	0	1.34E-06	1.50E+03	2.00E-02	2.60E+01	4.80E-01	9.33E-08	9.33E-08	5.00E-03	No	5.30E+00	No
LU13	BaPTPE	0	1.48E-07	1.50E+03	2.00E-02	2.60E+01	4.80E-01	1.03E-08	1.03E-08	5.00E-03	No	5.30E+00	No
LU14	BaPTPE	0	9.52E-08	1.50E+03	2.00E-02	2.60E+01	4.80E-01	6.61E-09	6.61E-09	5.00E-03	No	5.30E+00	No

Table C2: Soil Screening Benchmarks

Chemical	Abbreviation	CCME Tier 1 Agricultural Soil Quality Guideline	CCME HH Soil Quality Guidelines (Agriculture) - Direct Contact	Detection Limit Values [1]	Atlantic RBCA - Human Health-Based Tier II Pathway-Specific Standards (PSS) for Soil - Agricultural Land Use	Minimum HH Direct Contact Criteria Used for Screening [2,3]	Reference / Comment
		[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	
Aluminum	Al	-	-	0.05	15400	15400	Atlantic RBCA
Antimony	Sb	20	-	0.0002	7.5	7.5	Atlantic RBCA
Arsenic	As	17	12	0.001	31	12	CCME
Barium	Ba	750	6800	0.0005	6800	6800	CCME
Beryllium	Be	5	75	0.0002	75	75	CCME
Bismuth	Bi	-	-	0.001	-	-	
Cadmium	Cd	1.4	1.4	0.0001	1.4	1.4	CCME
Calcium	Ca	-	-	0.05	-	-	
Cerium	Ce	-	-	0.01	-	-	
Cesium	Cs	-	-	0.05	-	-	
Chromium	Cr	64	220	0.001	220	220	CCME
Cobalt	Co	20	-	0.0001	22	22	Atlantic RBCA
Copper	Cu	63	1100	0.0005	1100	1100	CCME
Gallium	Ga	-	-	0.05	-	-	
Germanium	Ge	-	-	0.05	-	-	
Hafnium	Hf	-	-	0.1	-	-	
Indium	In	-	-	0.005	-	-	
Iron	Fe	-	-	0.05	11000	11000	Atlantic RBCA
Lanthium	La	-	-	0.5	-	0.78	US EPA RSL
Lead	Pb	70	140	0.001	140	140	CCME
Lithium	Li	-	-	0.2	-	-	
Magnesium	Mg	-	-	0.05	-	-	
Manganese	Mn	-	-	0.001	360	360	Atlantic RBCA
Molybdenum	Mo	4	-	0.0005	110	110	Atlantic RBCA
Nickel	Ni	45	200	0.0005	200	200	CCME
Niobium	Nb	-	-	0.1	-	-	
Phosphorus	P	-	-	0.05	-	-	
Potassium	K	-	-	0.2	-	-	
Scandium	Sc	-	-	0.1	-	-	
Selenium	Se	1	80	0.0005	80	80	CCME
Silver	Ag	20	-	0.0002	77	77	Atlantic RBCA
Sodium	Na	-	-	0.05	-	-	
Strontium	Sr	-	-	0.001	9400	9.40E+03	US EPA RSL
Sulfur	S	500	-	100	-	-	
Rhenium	Re	-	-	0.002	-	-	
Rubidium	Rb	-	-	0.1	-	-	
Tantalum	Ta	-	-	0.05	-	-	
Tellurium	Te	-	-	0.05	-	-	
Tin	Sn	5	-	0.001	9400	9400	Atlantic RBCA
Titanium	Ti	-	-	50	-	28000	US EPA RSL
Thallium	Tl	1	1	0.00005	1	1	CCME
Thorium	Th	-	-	0.01	-	-	
Tungsten	W	-	-	0.1	-	-	
Uranium	U	33	23	0.00005	23	23	CCME
Vanadium	V	23	-	0.005	39	39	Atlantic RBCA
Yttrium	Y	-	-	0.1	-	-	
Zinc	Zn	200	10000	0.005	10000	10000	CCME
Zirconium	Zr	-	-	0.5	-	1.26	US EPA RSL
Mercury	Hg	6.6	6.6	0.00005	6.6	6.6	CCME
Benzo(a)pyrene	BaP	6.2	-	0.005	N/A	-	
Naphthalene	Naphth	0.014	-	0.005	1800	1800	Atlantic RBCA
BaPTPE	BaPTPE	-	5.3	0.005	5.3	5.3	CCME

Notes: - = no value

(1) The lowest detetion limit was selected between soil baseline data set and assay data set.

(2) The most conservative screening criteria between CCME and ARBCA was selected.

(3) US EPA RSL consulted where no HH direct contact guideline was available from CCME or ARBCA.

APPENDIX D

Water Quality Screening

Table D-1: Human Health Drinking Water Criteria

Parameter	Unit	Primary Source		Secondary Sources				Notes
		Health Canada GCDWQ[a]		Alberta EPA Drinking Water[b]	BC ENV Schedule 3.2 - Drinking Water[b]	Ontario MECP - Drinking water[b]	US EPA RSL for Tap water[b]	
General Parameters								
TDS	mg/L	<500	AO	500	-	-	-	Based on taste
Anions and Nutrients								
Chloride	mg/L	≤250	AO	250	250	250	NV	Health Canada: Based on taste and potential for corrosion in the distribution system. A health guideline value is not necessary as health effects are not of concern at levels found in drinking water.
Fluoride	mg/L	1.5	MAC	-	-	-	-	-
Sulphate	mg/L	≤500	AO	500	500	NV	NV	Health Canada: Based on taste; high levels (above 500 mg/L) can cause physiological effects such as diarrhoea or dehydration.
Nitrate	mg/L as N	10	MAC	-	-	-	-	-
Nitrite	mg/L as N	1	MAC	-	-	-	-	-
Total ammonia	mg/L	none required	-	-	-	-	-	Health Canada: A guideline value is not necessary as it is produced in the body and efficiently metabolized in healthy people; no adverse effects at levels found in drinking water.
Metals								
Aluminum	mg/L	2.9	MAC	-	-	-	-	-
Antimony	mg/L	0.006	MAC	-	-	-	-	-
Arsenic	mg/L	0.01	MAC	-	-	-	-	Health Canada: ALARA - as low as reasonably achievable
Barium	mg/L	2.0	MAC	-	-	-	-	-
Beryllium	mg/L	NV	-	NV	0.008	0.004	0.0049	Ontario MECP: based on US EPA National Primary drinking water standard (maximum contaminant level [MCL])
Boron	mg/L	5	MAC	-	-	-	-	-
Cadmium	mg/L	0.007	MAC	-	-	-	-	-
Chromium	mg/L	0.05	MAC	-	-	-	-	Health Canada: MAC protects against both cancer and non-cancer effects from Chromium (VI) and is established for total chromium.
Cobalt	mg/L	NV	-	NV	0.001	0.003	0.0012	BC ENV: adopted from US EPA, which was based on non-cancer endpoint (PPRTV)
Copper	mg/L	2	MAC	-	-	-	-	-
Iron	mg/L	≤0.1	AO	0.3	6.5	NV	2.8	Health Canada: Based on minimizing the occurance of discoloured water and to improve consumer confidence in drinking water quality. A health based guideline is not necessary as health effects are not of concern at levels found in drinking water and at the level at which the AO is set.
Lead	mg/L	0.005	MAC	-	-	-	-	Health Canada: ALARA - as low as reasonably achievable
Lithium	mg/L	NV	-	NV	0.008	NV	0.0080	BC ENV: adopted from US EPA, which was based on non-cancer endpoint (PPRTV)
Mercury	mg/L	0.001	MAC	-	-	-	-	-
Manganese	mg/L	0.12	MAC	-	-	-	-	-
Molybdenum	mg/L	NV	-	NV	0.25	0.015	0.02	Ontario MECP: adopted from US EPA, which was based on non-cancer endpoint (IRIS)
Sodium	mg/L	≤200	AO	200	200	200	NV	Health Canada: Based on taste

Table D-1: Human Health Drinking Water Criteria

Parameter	Unit	Primary Source		Secondary Sources				Notes
		Health Canada GCDWQ[a]		Alberta EPA Drinking Water[b]	BC ENV Schedule 3.2 - Drinking Water[b]	Ontario MECP - Drinking water[b]	US EPA RSL for Tap water[b]	
Nickel	mg/L	NV	-	NV	0.08	0.033	0.079	Ontario MECP endpoint unknown, therefore US EPA critera was selected; based on non-cancer endpoint (IRIS)
Selenium	mg/L	0.05	MAC	-	-	-	-	-
Silver	mg/L	none required	-	-	-	-	-	Health Canada: Guideline value not required as drinking water contributes negligibly to an individual's daily intake.
Strontium	mg/L	7	MAC	-	-	-	-	-
Tin	mg/L	NV	-	NV	2.5	NV	2.4	US EPA: based on non-cancer endpoint (HEAST)
Thallium	mg/L	NV	-	NV	NV	0.00004	0.00004	Ontario MECP: based on US EPA, which was based on non-cancer endpoint (PPRTV)
Uranium	mg/L	0.02	MAC	-	-	-	-	-
Vanadium	mg/L	NV	-	NV	0.02	0.0062	0.017	Ontario MECP endpoint unknown, therefore US EPA critera was selected; based on non-cancer endpoint (adjusted PPRTV)
Tungsten	mg/L	NV	-	NV	0.003	NV	0.0032	BC ENV: adopted from US EPA, which was based on non-cancer endpoint (PPRTV)
Zinc	mg/L	≤5.0	AO	5	3	1.1	1.2	Health Canada: Based on taste Ontario MECP: based on US EPA, which was based on non-cancer endpoint (IRIS)

Notes: NV = no value; AO = aesthetic objective; MAC = maximum acceptable concentration; mg/L = milligram per litre; mg/L as N = milligram per litre as nitrogen; "-" = value not available or not required; GCDWQ = Guidelines for Canadian Drinking Water Quality; RSL = Regional Screening Level; TDS = total dissolved solids; PPRTV = Provisional Peer-Reviewed Toxicity Values; IRIS = Integrated Risk Information System; HEAST = health effects assessment summary tables.

Shaded value = Selected human health Screening Criteria

(a) Health Canada (2025). Guidelines for Canadian Drinking Water Quality (HC GCDWQ). The MAC was selected when available. March 2025

(b) In the absence of a health-based Health Canada screening value (i.e., MAC), the screening value was obtained from the following hierarchy of sources, in accordance with Atlantic RBCA guidance for human health-based guidelines for groundwater:
Alberta Tier 1 Soil and Groundwater Remediation Guidelines (2024): Table C-11 Surface Water Quality Guidelines, drinking water.
British Columbia Ministry of the Environment and Climate Change Strategy (BC ENV). 2025. Contaminated Sites Regulation Schedule 3.2 Generic Numerical Water Standards, Drinking Water.
Ontario MECP: GW-1 Direct Ingestion Component Values. MECP Modified Generic Risk Assessment (MGRA) Approved Model, 2016, with toxicity reference values updated to March 2024.
US EPA RSL for tap water. A target hazard quotient of 0.2 and target cancer risk of 1E-05 were used to be to be consistent with federal guidance.

Table D-2: Surface Water Quality Screening for Human Health

Parameter	Unit	Drinking Water Critera[a]			Baseline and Predicted Surface Water Concentrations															
					Duley Lake				Duley Lake Outlet				Pike Lake				Riordan Lake			
		Health Canada - MAC	Health Canada - AO	Selected Secondary Source Criteria	Baseline	Operations	Closure	Post-Closure	Baseline	Operations	Closure	Post-Closure	Baseline	Operations	Closure	Post-Closure	Baseline	Operations	Closure	Post-Closure
Conventional Parameters																				
Total dissolved solids	mg/L	-	500	-	52	79	75	76	52	54	48	55	52	78	74	66	52	70	70	80
Major Ions																				
Chloride	mg/L	-	250	-	0.500	1.2	1.1	0.609	0.500	0.735	0.583	0.579	0.500	1.1	0.966	0.863	0.500	0.435	0.461	1.2
Fluoride	mg/L	1.5	-	-	0.0500	0.0671	0.0634	0.0503	0.0500	0.0556	0.0518	0.0498	0.0500	0.0644	0.0606	0.0479	0.0500	0.0435	0.0431	0.0669
Sulphate	mg/L	-	500	-	3.9	13	11	5.2	3.9	6.2	3.6	5.1	3.9	12	10	18	3.9	3.9	4.1	9.3
Nutrients																				
Nitrate	mg-N/L	10	-	-	0.0700	0.731	0.322	0.0413	0.0700	0.262	0.0979	0.0546	0.0700	0.605	0.280	0.0630	0.0700	0.0349	0.0342	0.0428
Nitrite	mg-N/L	1.0	-	-	0.00500	0.00904	0.00777	0.0105	0.00500	0.00695	0.00619	0.00753	0.00500	0.00943	0.00913	0.00819	0.00500	0.00986	0.00975	0.0108
Total ammonia	mg-N/L	not required	-	-	0.0436	0.0613	0.0288	0.0242	0.0436	0.0375	0.0255	0.0247	0.0436	0.0580	0.0279	0.0223	0.0436	0.0218	0.0214	0.0248
Total Metals																				
Aluminum	mg/L	2.9	-	-	0.0132	0.0122	0.0122	0.0126	0.0132	0.0599	0.0703	0.0599	0.0132	0.0125	0.0124	0.0114	0.0132	0.0120	0.0119	0.0117
Antimony	mg/L	0.006	-	-	0.000219	0.000557	0.000472	0.000209	0.000219	0.000327	0.000251	0.000269	0.000219	0.000499	0.000431	0.000741	0.000219	0.000183	0.000180	0.000258
Arsenic	mg/L	0.01	-	-	0.000254	0.000547	0.000465	0.000206	0.000254	0.000320	0.000245	0.000264	0.000254	0.000491	0.000425	0.000739	0.000254	0.000179	0.000175	0.000265
Barium	mg/L	2.0	-	-	0.0104	0.0135	0.0135	0.0131	0.0104	0.0104	0.00965	0.0105	0.0104	0.0135	0.0134	0.0127	0.0104	0.0125	0.0123	0.0123
Beryllium	mg/L	-	-	0.004	0.000112	0.000156	0.000139	0.0000898	0.000112	0.000113	0.0000994	0.0000941	0.000112	0.000145	0.000132	0.000130	0.000112	0.0000812	0.0000791	0.0000816
Boron	mg/L	5.0	-	-	0.0134	0.0206	0.0190	0.0143	0.0134	0.0168	0.0155	0.0149	0.0134	0.0195	0.0182	0.0161	0.0134	0.0130	0.0128	0.0158
Cadmium	mg/L	0.007	-	-	0.0000227	0.0000527	0.0000448	0.0000183	0.0000227	0.0000305	0.0000233	0.0000193	0.0000227	0.0000472	0.0000408	0.0000258	0.0000227	0.0000163	0.0000153	0.0000157
Chromium	mg/L	0.05[b]	-	-	0.00136	0.00146	0.00138	0.00109	0.00136	0.00125	0.00119	0.00114	0.00136	0.00140	0.00133	0.00122	0.00136	0.000994	0.000975	0.00112
Cobalt	mg/L	-	-	0.001	0.000156	**0.00210**[(S)]	**0.00170**[(S)]	0.000135	0.000156	0.000812	0.000379	0.000211	0.000156	**0.00180**[(S)]	**0.00150**[(S)]	0.000702	0.000156	0.000121	0.000118	0.000162
Copper	mg/L	2.0	-	-	0.000465	0.00168	0.00140	0.000477	0.000465	0.000959	0.000736	0.000764	0.000465	0.00149	0.00124	0.00242	0.000465	0.000288	0.000322	0.00113
Iron	mg/L	-	-	2.8	0.0395	0.198	0.197	0.117	0.0395	0.149	0.131	0.129	0.0395	0.192	0.187	0.183	0.0395	0.111	0.109	0.113
Lead	mg/L	0.005	-	-	0.000208	0.000195	0.000185	0.000152	0.000208	0.000171	0.000165	0.000158	0.000208	0.000187	0.000177	0.000172	0.000208	0.000118	0.000115	0.000118
Lithium	mg/L	-	-	0.008	0.00158	0.00311	0.00272	0.00147	0.00158	0.00200	0.00162	0.00173	0.00158	0.00285	0.00252	0.00407	0.00158	0.00127	0.00126	0.00192
Manganese	mg/L	0.12	-	-	0.0109	**0.120**[(Hd)]	0.1	0.065	0.0109	0.055	0.029	0.042	0.0109	0.11	0.094	0.076	0.0109	0.06	0.059	0.07
Mercury	mg/L	0.001	-	-	0.0000364	0.0000347	0.0000345	0.0000340	0.0000364	0.0000351	0.0000352	0.0000348	0.0000364	0.0000345	0.0000341	0.0000341	0.0000364	0.0000309	0.0000302	0.0000297
Molybdenum	mg/L	-	-	0.015	0.000389	0.00307	0.00265	0.00132	0.000389	0.00137	0.000754	0.000923	0.000389	0.00280	0.00234	0.00197	0.000389	0.000692	0.000838	0.00354
Nickel	mg/L	-	-	0.079	0.000462	0.0123	0.00990	0.000473	0.000462	0.00458	0.00200	0.00108	0.000462	0.0106	0.00857	0.00481	0.000462	0.000404	0.000402	0.000639
Selenium	mg/L	0.05	-	-	0.000471	0.00118	0.000991	0.000367	0.000471	0.000636	0.000453	0.000583	0.000471	0.00105	0.000895	0.00238	0.000471	0.000313	0.000309	0.000491
Silver	mg/L	not required	-	-	0.0000248	0.0000377	0.0000333	0.0000198	0.0000248	0.0000265	0.0000228	0.0000230	0.0000248	0.0000347	0.0000312	0.0000444	0.0000248	0.0000178	0.0000174	0.0000205
Sodium	mg/L	-	200	-	0.531	1.9	1.7	1.2	0.531	1.1	0.803	0.906	0.531	1.7	1.5	1.1	0.531	0.852	0.908	2.3
Strontium	mg/L	7.0	-	-	0.0129	0.0365	0.0317	0.0205	0.0129	0.0211	0.0153	0.0218	0.0129	0.0336	0.0297	0.0707	0.0129	0.0183	0.0180	0.0243
Thallium	mg/L	-	-	0.00004	0.0000137	**0.0000450**[(S)]	0.0000371	0.0000125	0.0000137	0.0000231	0.0000158	0.0000182	0.0000137	0.0000397	0.0000333	**0.0000670**[(S)]	0.0000137	0.0000104	0.0000104	0.0000173
Tin	mg/L	-	-	2.4	0.00129	0.00157	0.00151	0.00133	0.00129	0.00147	0.00143	0.00146	0.00129	0.00153	0.00147	0.00213	0.00129	0.00124	0.00122	0.00127
Tungsten	mg/L	-	-	0.003	0.000500	0.000529	0.000514	0.000474	0.000500	0.000507	0.000500	0.000491	0.000500	0.000519	0.000505	0.000471	0.000500	0.000435	0.000428	0.000426
Uranium	mg/L	0.02	-	-	0.000105	0.00175	0.00137	0.000182	0.000105	0.000638	0.000261	0.000555	0.000105	0.00149	0.00119	0.00415	0.000105	0.000112	0.000125	0.000382
Vanadium	mg/L	-	-	0.017	0.00117	0.00133	0.00131	0.00125	0.00117	0.00155	0.00160	0.00154	0.00117	0.00132	0.00129	0.00117	0.00117	0.00117	0.00115	0.00115
Zinc	mg/L	-	5.0	1.1	0.00263	0.00722	0.00606	0.00218	0.00263	0.00436	0.00347	0.00325	0.00263	0.00642	0.00548	0.00771	0.00263	0.00193	0.00189	0.00253

Notes:
(a) Surface water concentrations were compared to the HC GCDWQ MACs where available. If the HC GCDWQ was not based on a health end-point (e.g., AO), a health-based value from a secondary source was used as outlined in Table D-1.
(a) The guideline is for chromium VI.
(Hd) = concentration is higher than the Maximum Acceptable Concentration (MAC), Health Canada Guidelines for Canadian Drinking Water Quality (HC GCDWQ, 2025).
(Ha) = concentration is higher than the aesthetic objective (AO), Health Canada Guidelines for Canadian Drinking Water Quality (HC GCDWQ, 2025).
(S) = concentration is higher than the selected secondary source criteria.
Bolded concentrations are higher than water quality guidelines.
Water quality data and guidelines shown in this table were rounded to reflect laboratory or field instrument precision *after* comparisons to guidelines. Therefore, values slightly above guidelines may be displayed as being equal to the guidelines and identified as exceedances. Concentrations equal to the guideline values were not identified as exceedan
mg/L = miligram per litre; mg/L as N = milligram per litre as nitrogen; MAC = maximum acceptable concentration; AO = aesthetic objective.
- = no guideline or no data.

APPENDIX E

Survey Results

1.0 INTRODUCTION

To support the human health risk assessment (HHRA) conducted for the Environmental Impact Statement (EIS) for the Kami Project, a survey on the local land use and consumption habits of cabin owners located in the Local Study Area (LSA) around the Project was conducted March 19-28, 2025. The results of this survey will ensure that the assumptions in the HHRA are representative of the use of the area.

2.0 METHODS

The electronic survey was prepared by Champion Iron Ore Inc. (Champion) using Microsoft Form, with input on the content from WSP's HHRA team.

The survey was a multiple-choice format, with an "other" option for participants to submit a different answer than the options provided. Champion emailed the survey to cabin owners associations within the LSA: Duley Lake Association, Riordan Lake Association, and Mills Lake Association. The survey was left open for approximately two weeks to allow for responses.

The survey focused on understanding land use activities, drinking water sources and country food consumption. The survey inquired about the consumption of large game, small game, game birds, berries and garden produce, with each of the above categories having questions on portion sizes and frequency of consumption. This information was used to reduce uncertainty around the assumptions required to evaluate potential exposure to contaminants that are released from the Project to soil due to aerial deposition and to surface water due water discharges (i.e., the assumptions underlying the multi-pathway assessment of the HHRA).

The survey questions and a summary of responses are presented in Attachment E1.

3.0 RESULTS

There were 85 responses to the survey, with each respondent taking approximately 7 minutes to answer all questions.

Table 1: Summary of Survey Responses

Land Use Information	Summary of Responses
Land Use Activities	
Frequency of cabin use	Most respondents (51%) used their cabin or visited the area on an occasional/seasonal basis, and 31% used their cabins as a permanent residence.
Drinking water sources	Most respondents indicated that they obtain drinking water from groundwater wells (44%), followed by bottled water (24%), or lake water (15%). Respondents who selected "other" (18%) indicated that they brought water from home, relied on municipal water, relied on a neighbour, or used a natural spring.
Recreational activities	Respondents participated in all the recreational activities offered in the survey, with the top activities being snowmobiling (15%), ATV/quad riding (15%), boating (14%), and fishing (14%). Other recreational activities were hunting (10%), trapping (5%), swimming (10%), harvesting (7%) and hiking/running (11%). People also submitted other recreational activities (1%) such as berry picking, camping, skiing, snow shoeing, and kayaking.

Table 1: Summary of Survey Responses

Land Use Information	Summary of Responses
Country Food Consumption	
Large game (mammalian)	Majority of respondents consumed meat from local game or birds (84%). The types of large game consumed by respondents included moose (79%) and caribou (14%). The responses in the "other" category (7%) were small game. The portion size and frequency of large game consumption that had the highest percentage of responses included an average serving size of 2-palms (about 250-300 grams) (59%), 3 to 4 meals per month (42%), year-round (81%).
Small game (mammalian)	The types of small game consumed by respondents included hare (52%), rabbit and porcupine (submitted in the "other" category) (45%) and beaver (3%). The portion size and frequency of small game consumption that had the highest percentage of responses included an average serving size of 2-palm sizes (about 250-300 grams) (44%), 1-2 meals per month (46%), year-round (50%).
Game birds	The types of game birds consumed included grouse (41%), goose (21%), ptarmigan (submitted in the "other" category) (20%), and duck (18%). The portion size and frequency of game bird consumption that had the highest percentage of responses included an average serving size of 2-palms (250-300 grams) (51%), 1-2 meals per month (56%), and year-round (50%).
Fish	Most respondents (84%) consumed locally or self-caught fish, with most fish coming from Duley Lake, the Walsh River, and Riordan Lake. Other waterbodies that were mentioned include Mills Lake, Strawberry Lake, Waldorf River, Beardon Lake, Ossock Lake, Pike Lake, Lobstick Lake, and small, unnamed local ponds. The types of fish consumed by respondents included brook trout (23%), wahnahnish (21%), speckle (21%), and lake trout (18%). Other local fish consumed were white fish, pike, cod, berbut, salmon, laker, and ounananiche. The portion size and frequency of fish consumption that had the highest percentage of responses included an average serving size of 2-palms (250-300 grams) (62%), 1-2 meals per month (54%), year-round (38%).
Berries	Majority of respondents consumed locally picked berries (99%). The types of berries consumed included blueberries (44%), partridge berries (31%) and cloudberries (21%). Other local berries consumed (4%), included squash berries, raspberries, strawberries, crow berries, dog berries, and black berries. The frequency of berry consumption that had the highest percentage of responses included 1 and 9 times per month on average (65%), year-round (43%).
Garden produce	Almost half of respondents reported they had a backyard garden (47%). Those with a backyard garden reported they grew potatoes, carrots, and cabbage were the most frequently grown produce. Other commonly consumed garden produce included onions, garlic, turnip, beans, peas, broccoli, lettuce, cucumber, pumpkin, rhubarb, strawberries, and raspberries.

ATTACHMENT E1

Survey Questions and Responses: Local Land Use and Consumption Habits near the Kami Property

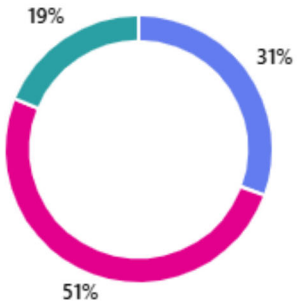
Responses Overview

Active

Responses	Average Score	Average Time
85	0	07:15

1. How frequently do you use your cabin or visit the area? (0 point)

Permanent residence	26
Occasional/seasonal	43
Other	16



2. If you replied "Other", please specify: (0 point)

16
Responses

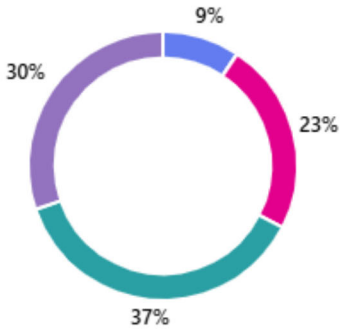
Latest Responses
"Every weekend and holidays"
...

7 respondents (44%) answered week for this question.



3. Please specify how many weeks of the year: (0 point)

Occasionally (less than 10 weeks per year)	4
1/4 of the year (more or less 13 weeks per year)	10
1/2 of the year (more or less 26 weeks per year)	16
3/4 of the year (more or less 40 weeks per year)	13



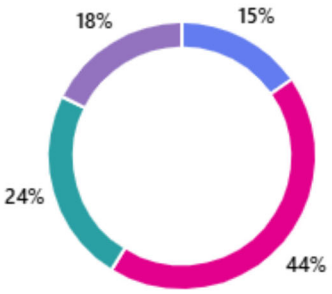
4. Please specify how many days per week: (0 point)

2 days or less per week	24
3-5 days per week	19
5-7 days per week	0



5. While in the area, where do you mainly obtain your drinking water? (0 point)

Lake water	13
Groundwater well	37
Bottled water	20
Other	15



6. If you replied "Other", please specify: (0 point)

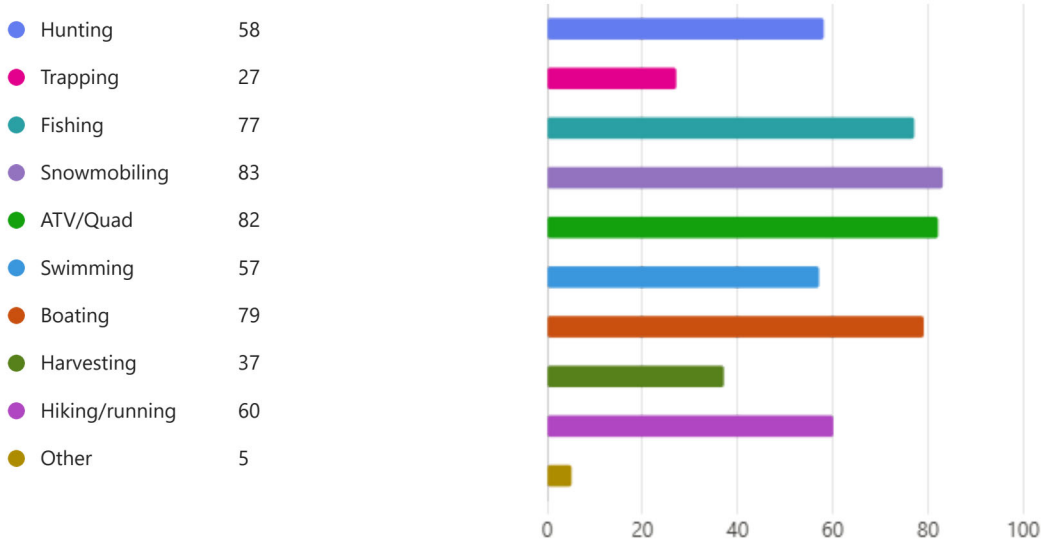
15
Responses

Latest Responses
...

3 respondents (20%) answered Brought from home for this question.

containers jug Water from home Natural spring
Brought from home Wabush
neighbor
Town water Bring it from town

7. What recreational activities do you participate in locally? (0 point)



8. If you replied "Other", please specify: (0 point)

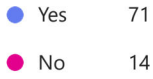
5
Responses

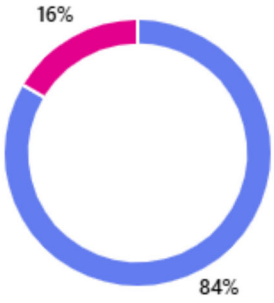
Latest Responses
...

2 respondents (40%) answered Berry picking for this question.

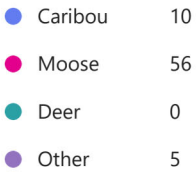


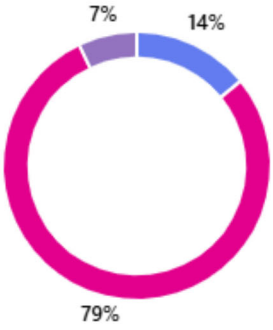
9. Do you consume meat from local game or birds? (0 point)





10. What is your preferred large game? (0 point)





11. What are your other preferred large games? (0 point)

5
Responses

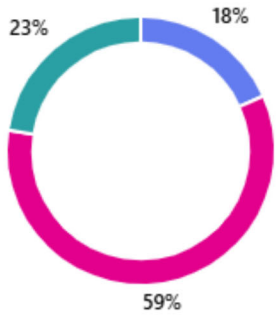
Latest Responses
...

3 respondents (60%) answered Birds for this question.

moose
Birds
area of my cabin
rabbit
Porcupine

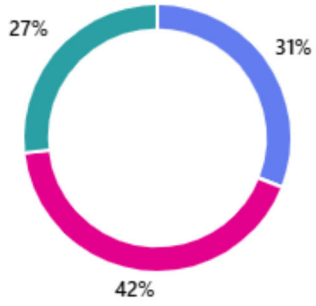
12. When you consume large game, what is the average serving size per meal? (0 point)

1 palm size (about 150 grams)	13
2 palm sizes (about 250-300 grams)	42
Over 2 palm sizes (over 300 grams)	16



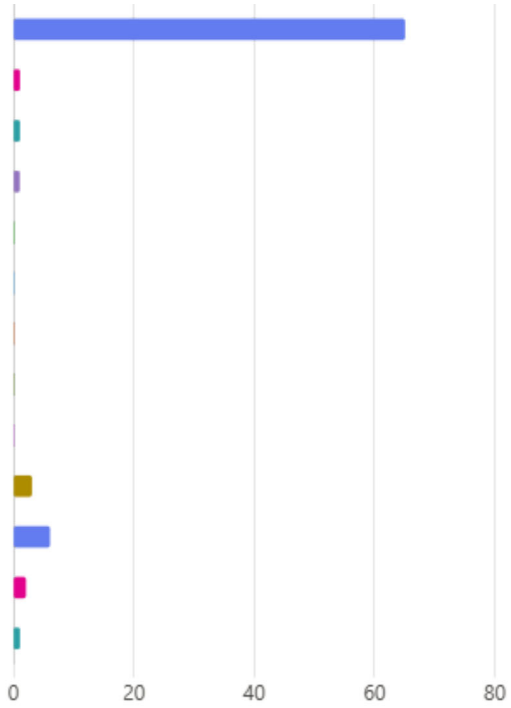
13. How frequently do you consume large game? (0 point)

Rarely (1-2 meals monthly)	22
Sometimes (3-4 meals monthly)	30
Often (more than once a week)	19



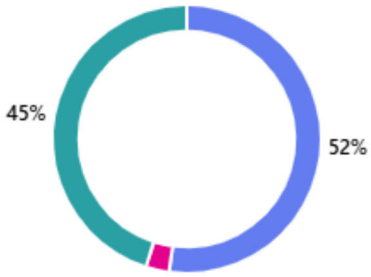
14. When do you mostly consume large game? (0 point)

Year-round	65
January	1
February	1
March	1
April	0
May	0
June	0
July	0
August	0
September	3
October	6
November	2
December	1



15. What is your preferred small game? (0 point)

Hare	37
Beaver	2
Other	32



16. What are your other preferred small games? (0 point)

31
Responses

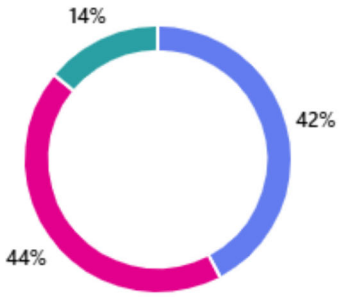
Latest Responses
"Ptarmigan"
...

7 respondents (23%) answered rabbit for this question.



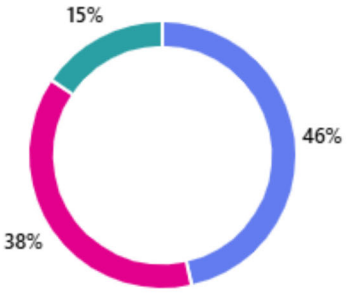
17. When you consume small game, what is the average serving size per meal? (0 point)

1 palm size (about 150 grams)	30
2 palm sizes (about 250-300 grams)	31
Over 2 palm sizes (over 300 grams)	10



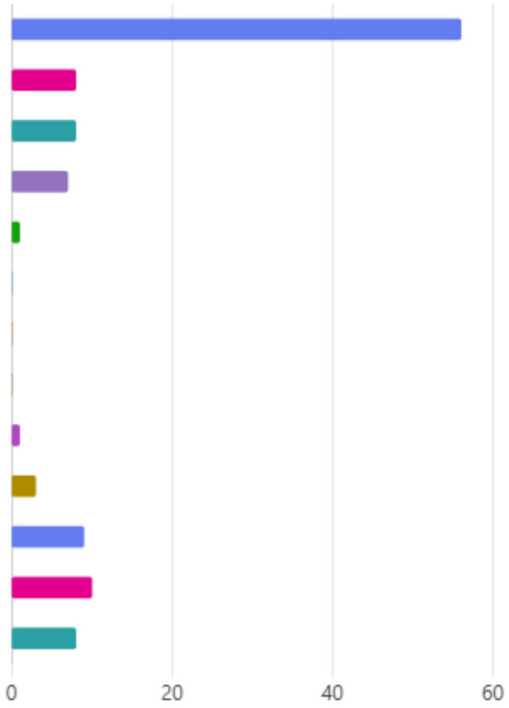
18. How frequently do you consume small game? (0 point)

Rarely (1-2 meals monthly)	33
Sometimes (3-4 meals monthly)	27
Often (more than once a week)	11



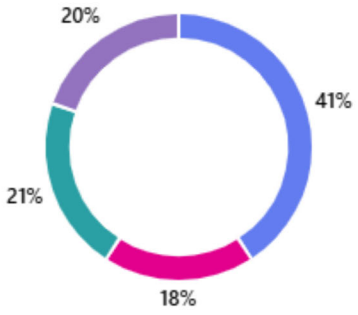
19. When do you mostly consume small game? (0 point)

Year-round	56
January	8
February	8
March	7
April	1
May	0
June	0
July	0
August	1
September	3
October	9
November	10
December	8



20. What is your preferred game birds? (0 point)

Grouse	29
Duck	13
Goose	15
Other	14



21. What are your other preferred game birds? (0 point)

14
Responses

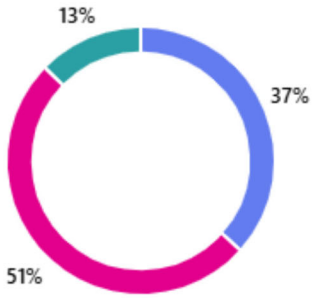
Latest Responses
...

12 respondents (86%) answered Ptarmigan for this question.



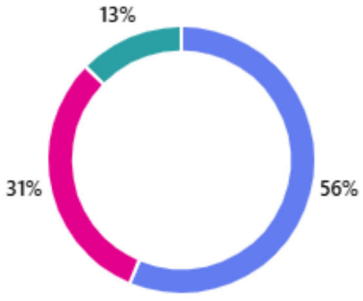
22. When you consume game birds, what is the average serving size per meal? (0 point)

1 palm size (about 150 grams)	26
2 palm sizes (about 250-300 grams)	36
Over 2 palm sizes (over 300 grams)	9

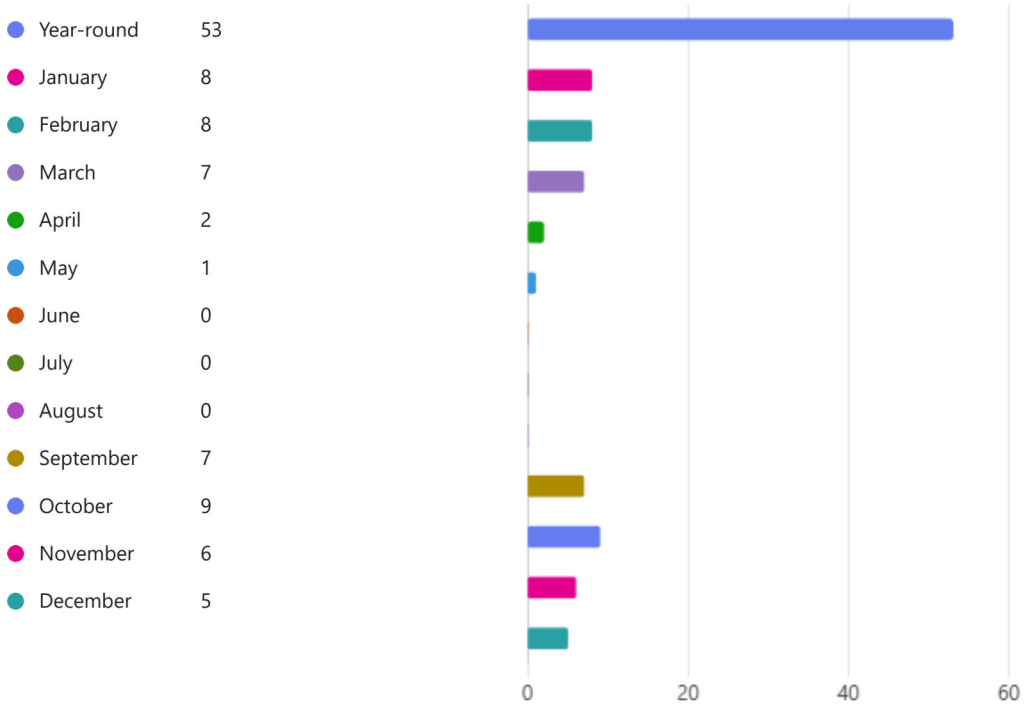


23. How frequently do you consume game birds? (0 point)

Rarely (1-2 meals monthly)	40
Sometimes (3-4 meals monthly)	22
Often (more than once a week)	9



24. When do you mostly consume game birds? (0 point)



25. Do you eat locally caught fish or fish that you catch yourself from a nearby lake or river? (0 point)



26. What lakes or rivers does the local fish you eat come from? (0 point)

71
Responses

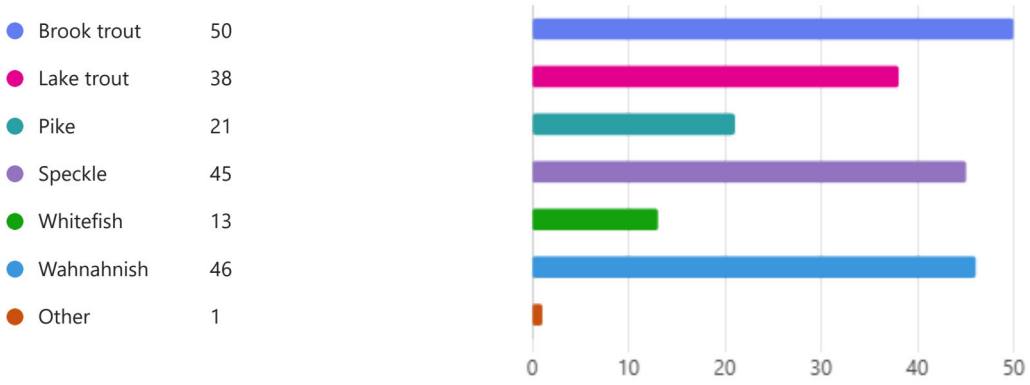
Latest Responses
"I dont know the names"
"Riordan lake"
"Walsh river, canning river"
...

19 respondents (27%) answered Walsh river for this question.

Update



27. What is your preferred local fish? (0 point)



28. What are your other preferred local fish? (0 point)

22
Responses

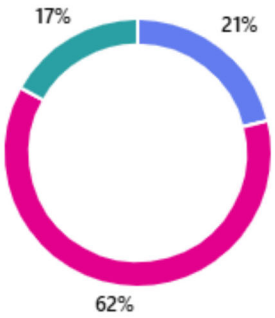
Latest Responses
...

7 respondents (32%) answered Wahnahnish for this question.



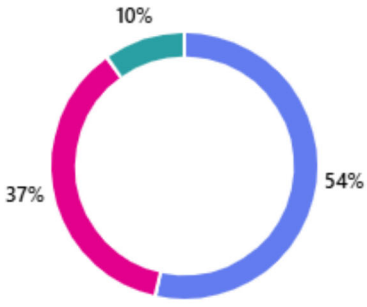
29. When you consume local fish, what is the average serving size per meal? (0 point)

1 palm size (about 150 grams)	15
2 palm sizes (about 250-300 grams)	44
Over 2 palm sizes (over 300 grams)	12



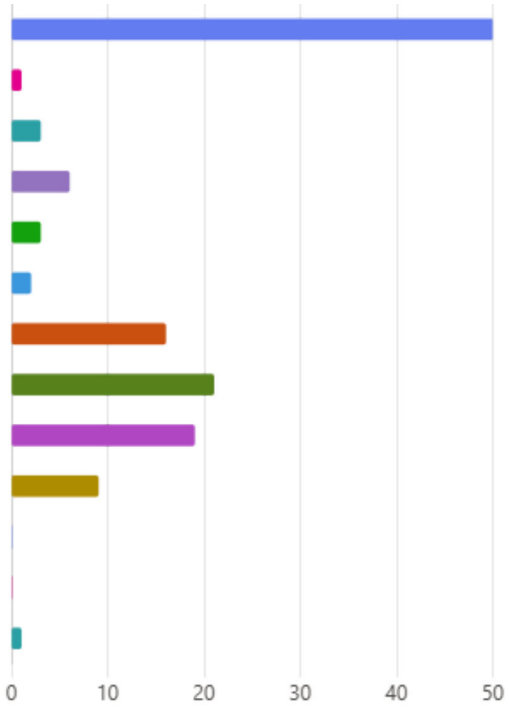
30. How frequently do you consume local fish? (0 point)

Rarely (1-2 meals monthly)	38
Sometimes (3-4 meals monthly)	26
Often (more than once a week)	7



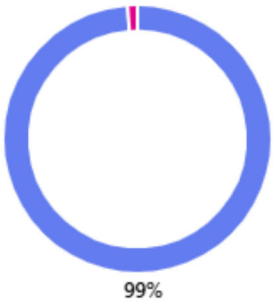
31. When do you mostly consume local fish? (0 point)

Year-round	50
January	1
February	3
March	6
April	3
May	2
June	16
July	21
August	19
September	9
October	0
November	0
December	1



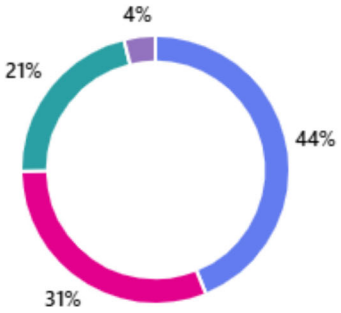
32. Do you eat locally picked berries? (0 point)

Yes	84
No	1



33. Which types of berries do you eat? (0 point)

Blueberries	82
Partridge berries	58
Cloudberries	40
Other	7



34. What are your other preferred berries? (0 point)

31
Responses

Latest Responses
"Raspberries bake apples"
"Strawberry and raspberry"
• • •

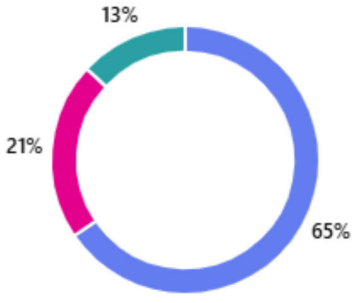
15 respondents (50%) answered Raspberries for this question.

↻ Update



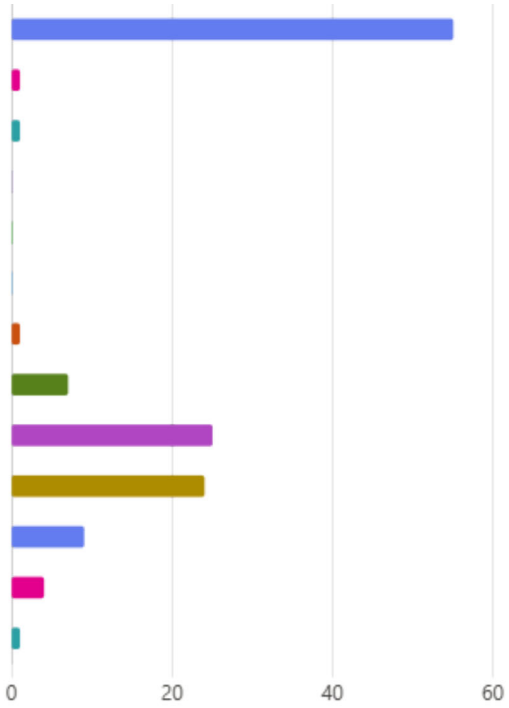
35. How frequently do you consume local berries? (0 point)

Sometimes (1 to 9 times per month)	55
Often (10 to 19 times per month)	18
Almost every day (20 or more times per month)	11



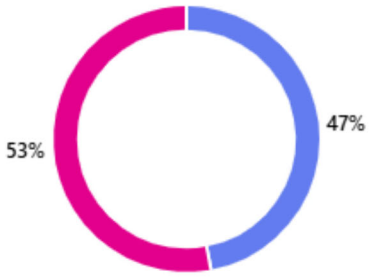
36. When do you mostly consume local berries? (0 point)

Year-round	55
January	1
February	1
March	0
April	0
May	0
June	1
July	7
August	25
September	24
October	9
November	4
December	1



37. Do you have a backyard garden for produce? (0 point)

Yes	40
No	45



38. What types of vegetables or fruit do you grow to eat? (0 point)

40
Responses

Latest Responses

"Potatos lettuce carrots strawberries"

"Potatoes"

"Potatoes carrots"

• • •

9 respondents (23%) answered Cabbage for this question.

Update



APPENDIX F

Multi-Pathway Model

1.0 HUMAN HEALTH MULTI-PATHWAY MODEL

The human health risk assessment (HHRA) is focused on evaluating potential health risks associated with the Kamistiatusset (Kami) Iron Ore Mine Project (the “Project”). The Project will emit contaminants of potential concern (COPC) directly into air and surface water from various sources. Individuals that reside in or visit the area surrounding the Project may be exposed to COPCs through primary contact pathways, such as drinking water ingestion and dermal contact with soil, and secondary pathways, such as food ingestion.

Some COPCs emitted to the atmosphere via air emissions may be deposited onto the soils and plants surrounding the Project area. Effluent from the Project may also discharge COPCs into surface water. Depending on the fate, transport and persistence of the COPCs in the environment, atmospheric deposition and changes in surface water quality could affect the COPC concentrations in local country foods (i.e., plants, wild game and fish) within the local study area (LSA).

Human health risks from the Project were characterized for the following exposure pathways (herein referred to as the “multi-pathway assessment”):

- Direct contact with COPCs in soil (incidental ingestion, dermal contact, soil inhalation) due to aerial deposition
- Ingestion of berries that have bioaccumulated COPCs from soil and aerial deposition
- Ingestion of traditional plants (i.e., labrador tea) that have bioaccumulated COPCs from soil and aerial deposition
- Ingestion of garden produce (aboveground plants) that have bioaccumulated COPCs from soil and aerial deposition
- Ingestion of garden produce (belowground plants) that have accumulated COPCs from soil
- Ingestion of COPCs in untreated drinking water due to effluent discharge to surface water
- Incidental ingestion of and dermal contact with COPCs in surface water while swimming due to effluent discharge
- Ingestion of fish that have bioaccumulated COPCs from surface water due to effluent discharge
- Ingestion of wild game that have bioaccumulated COPCs from soil, surface water and dietary items

This appendix presents the models, equations and assumptions for the multi-pathway assessment, which estimates the concentrations of the COPCs in environmental media and the subsequent total daily dose received by humans (i.e., amount taken in per day) from exposure to these media. Chronic risks were then estimated with chronic oral COPC exposure limits protective of human health and sensitive individuals (e.g., children, elderly, and people with compromised health), herein referred to as toxicity reference values (TRVs). Two models were developed by WSP in Microsoft Excel to calculate exposure concentrations, exposure doses, and risk estimates:

- Human health exposure and risk model (Attachment F1), which estimates the potential COPC concentrations in soil, berries, labrador tea, garden produce and fish due to aerial deposition and effluent discharges from the Project and estimates the oral exposure doses and risks associated with the multi-pathways listed above.
- Wildlife exposure model (Attachment F2), which estimates the potential COPC concentrations in wild game tissue.

The approach used to estimate concentrations in various environmental media were provided by the United States Environmental Protection Agency (US EPA 2005) and Health Canada (2024).

Sample calculations are also provided in this appendix. The worked example is presented for the toddler life stage of a Permanent Cabin Resident exposed to arsenic from the Base + Operations assessment case. Toddlers typically represent the most sensitive life stage due to their exposure rates relative to body weight.

2.0 HUMAN HEALTH EXPOSURE POINT CONCENTRATIONS

Exposure point concentrations (EPCs) are an estimate of the concentrations of COPCs that people may be exposed to in each relevant exposure media. EPCs were characterized for the following assessment scenarios[1]:

- Base Case - representing COPC concentrations in the existing environment (i.e., measured soil concentrations and water concentrations prior to implementation of the Project). Appendix A describes the baseline environmental quality data set for each exposure media.
- Project Alone Case - representing predicted incremental changes to COPC concentrations in the environment associated with the Operations, Closure and Post-Closure phases of the Project (i.e., concentrations that do not consider the contribution that Base Case concentrations make to overall exposure).
- Base + Project Case - representing COPC concentrations in the existing environment in addition to predicted incremental changes to COPC concentrations in the environment associated with the Project.

The methods for deriving Base Case and Project Alone Case EPCs are summarised in Table 1 for the multi-pathway assessment.

Table 1: Methods for Deriving Base Case and Project Alone Case EPCs for Human Health

Environmental Media	Base Case EPC (before Project)	Project Alone Case EPC (from Project)
Soil	A baseline soil quality program was conducted in 2024 to characterize the existing metal concentrations within the LSA. The 95% UCLM of data was selected as the Base Case EPC. See Appendix A for details.	Predicted changes to soil quality from the Project (i.e., due to aerial deposition of dust) were modelled as part of the HHRA at each human health receptor location based on air to soil deposition rates modelled by the air quality discipline (see Section 2.1).
Dust	Base Case concentrations of dust in ambient air were predicted based on measured baseline soil concentrations and default assumptions on concentrations of particulates in air from Health Canada (2024)	Project Alone Case concentrations of dust in ambient air were predicted based on predicted soil concentrations because of the Project and default assumptions on concentrations of particulates in air from Health Canada (2024)

[1] In the HHRA model the assessment cases are represented by the following terms:
Base = Base Case
Project = Base Case + Incremental Concentrations from Operations
Closure = Base Case + Incremental Concentrations from Closure
Post Closure = Base Case + Incremental Concentrations from Post Closure
Project-Base = Incremental Concentrations from Operations alone
Closure-Base = Incremental Concentrations from Closure alone
Post Closure-Base = Incremental Concentrations from Post Closure alone

Table 1: Methods for Deriving Base Case and Project Alone Case EPCs for Human Health

Environmental Media	Base Case EPC (before Project)	Project Alone Case EPC (from Project)
Surface Water	A baseline water quality program was conducted in 2024 to characterize the existing surface water quality in the watersheds within the LSA, immediately downstream of the Project. The surface water quality data from Duley Lake was used to represent baseline conditions in the HHRA as this lake will receive direct discharge of effluent. The average concentration was selected as the Base Case EPC See Appendix A for details.	Predicted changes to water quality from the Project (i.e., due to water discharges) were modelled by the water quality discipline for several lakes and rivers in the LSA expected to be influenced by the Project. The maximum annual average concentration from Duley Lake was selected to assess Project-related exposures for human health (See Section 2.3).
Human Dietary Items		
Berries Labrador Tea	A baseline country foods program was conducted in 2024 to characterize the existing metal concentrations within berries and Labrador tea in the LSA. The paired soil and vegetation tissue data was used to develop site-specific BAFs[a]. Base Case berry and labrador tea concentrations were derived as the BAF x measured baseline soil concentrations.	Project Alone Case concentrations in berries and labrador tea were derived based on the predicted changes to soil quality and dust deposition from the Project. Plant tissue concentrations from dust deposition to plant surfaces were predicted based on models from US EPA (2005) (see Section 2.4). Plant tissue concentrations from soil bioaccumulation were predicted based on the site-specific BAFs[a] x predicted Project Alone concentration in soil (see Section 2.5). Tissue concentrations from soil bioaccumulation and deposition were then summed to get a total concentration (See Section 2.6)
Garden Produce	Base Case concentrations of garden produce were predicted based on measured baseline soil concentrations and literature based BAFs (US EPA 2005).	Project Alone concentrations in garden produce were derived based on the predicted changes to soil quality and dust deposition from the Project. Above ground produce concentrations from dust deposition to plant surfaces were predicted based models from US EPA (2005) (see Section 2.4). Above and below ground produce concentration from soil bioaccumulation were predicted based on the literature BAFs from US EPA (2005) x predicted Project Alone concentration in soil (see Section 2.5). Above ground produce concentrations from soil bioaccumulation and deposition were then summed to get a total concentration (See Section 2.6).
Fish	A baseline country foods program was conducted in 2024 to characterize the existing metal concentrations within fish fillets in Duley Lake. The paired surface water and tissue data were used to develop site-specific BAFs[a]. Base Case fish concentrations were derived as the BAF x measured baseline surface water concentrations.	Project Alone concentrations in fish were predicted based on the site-specific BAFs[a] x predicted Project Alone concentration in surface water (see Section 2.7).
Wild Game Meat *(Moose, Hare, Grouse, Mallard)*	Base Case concentrations in wild game tissue were derived from the wildlife exposure model (see Section 3.0) that considered baseline concentrations in soil, surface water and dietary items.	Project Alone concentrations in wild game meat were derived from the wildlife exposure model (see Section 3.0) that considered predicted changes in concentrations of COPCs in soil, surface water, and dietary items from the Project.

Table 1: Methods for Deriving Base Case and Project Alone Case EPCs for Human Health

Environmental Media	Base Case EPC (before Project)	Project Alone Case EPC (from Project)
	Baseline concentrations in dietary items (e.g., browse, aquatic invertebrates, terrestrial invertebrates) were derived from measured baseline soil and surface water concentrations and literature-based BAFs. Site-specific BTFs[b] were used to project Base Case concentrations in wild game tissue from the modelled baseline daily intake of COPCs from incidental soil ingestion, water ingestion, and food ingestion.	Project Alone concentrations in dietary items (e.g., browse, aquatic invertebrates, terrestrial invertebrates) were derived from Project Alone concentrations predicted in soil and surface water and literature-based BAFs. Site-specific BTFs[b] were used to project Project Alone concentrations in wild game tissue from the modelled Project Alone Case daily intake of COPCs from incidental soil ingestion, water ingestion, and food ingestion.

Notes: EPC = exposure point concentration; BAF = bioaccumulation factor, BTF = biotransfer factor; LSA = local study area, HHRA = human health risk assessment; UCLM = upper confidence limit of the mean.

[a] The derivation of site-specific BAFs for berries, fish and traditional plants is provided in Appendix A, which considered concentrations in plant tissues, soil, and surface water within the LSA. Literature based BAFs were used when sample data were highly censored with non-detect data.

[b] The derivation of site-specific BTFs for wild game is provided in Section 3.4.1, which considered wild game meat concentrations from baseline data collected by Chan et al. (2021) in the Taiga Shield ecozone (where the Project is in). In absence of baseline wild game concentrations for barium and beryllium, literature based BTFs from Baes et al (1984) were considered.

Further details on the derivation of EPCs are provided below, along with sample calculations for arsenic at receptor location L1. All EPCs for the HHRA multi-media model are provided in Table 1-1 (Attachment 1).

2.1 Soil

Incremental changes to soil quality from the Project (i.e., due to aerial deposition of dust) were modelled as part of the HHRA, discussed in detail below.

2.1.1 Deposition Modelling

Incremental changes to soil concentrations because of Project Operations was calculated from annual deposition rates (i.e., wet and dry deposition) provided by the Air Quality discipline for each COPC and human receptor location within the LSA. Following deposition over Project Operations, it was assumed that the incremental soil changes would remain constant for the remaining Project phases (Operations, Closure and Post-Closure). Deposition during the initial Construction phase was assumed to be negligible.

Atmospheric chemical deposition to soil was calculated using a procedure published by the U.S. EPA Office of Solid Waste (OSW) (US EPA 2005), where the concentration in soil from deposition (i.e., the Project Alone Case) was calculated using the following equation:

$$Soil_{dep} = \frac{Q}{Z \times BD} \times \frac{1 - e^{(-ks \times t)}}{ks}$$

Where:

$Soil_{dep}$ = Estimated concentration of COPC in soil attributed to particulate deposition from air (mg/kg)
Q = Rate of airborne particle deposition (mg/m^2/year)
Z = Soil depth (m)
BD = Bulk density of soil (kg/m^3)
ks = Soil loss constant (year^{-1})
t = Time period of deposition (years)

The bulk density was assumed to be 1,500 kg/m³ and soil concentrations were predicted for two mixing depths (i.e., 2 cm and 20 cm) to calculate surface soil concentrations for direct human contact and sub-surface soil concentrations for vegetation uptake, respectively. The time of deposition was assumed to be the length of Project Operations (26 years).

EPCs for deposition were calculated based on the highest airborne particle deposition rate of each location relevant to each receptor type. A summary of the locations determined to be having the highest airborne particle deposition rates for each receptor type can be found in Table 2. Deposition rates were based on the average concentration of COPCs measured in the mine rock and ore assays. The proportion of each COPC found in the ore was applied to the maximum annual total particulate matter deposition rate, predicted from 2018 to 2021, at each receptor location.

Table 22: Locations with the Highest Deposition Rate for Each Receptor Type

Receptor Type	Applicable Receptor Locations	Receptor ID with Highest Deposition	Receptor Description
Permanent Cabin Resident	Cabins, Land Use Areas	L1	Previous receptor location evaluated by Alderon (2012) Southwest shore of Duley Lake South, proximal to the Project conveyors, process plant and load out facilities.
Recreational Cabin Resident			
Commercial User	Schools, Hospitals	S3/H2	Closest school Fermont - Horizon-Blanc High School Centre de Sante de l'Hematite (Hospital).
Urban Resident	Residential Communities	R3	Closest urban residence Fermont - easternmost house on Rue Des Batisseurs.

Inputs for calculating soil deposition concentrations can be found in Attachment F1: Table 1-1 (air deposition rates), 1-7 (project and soil characteristics) and 1-10 (soil loss constants), and soil EPCs from deposition can be found in Table 1-1.

Example 2-1: Deposition of Arsenic to Soil at Receptor Location L1

Surface Soil (i.e., top 2 cm)

$$Soil_{dep} = \frac{0.07116\ mg/m^2/year}{0.02\ m \times 1500\ kg/m^3} \times \frac{1 - e^{-0.0277\ years^{-1} \times 26\ years}}{0.0277\ years^{-1}}$$

$$Soil_{dep} = 0.044\ mg/kg$$

Sub-Surface Soil (i.e., top 20 cm)

$$Soil_{dep} = \frac{0.07116\ mg/m^2/year}{0.2\ m \times 1500\ kg/m^3} \times \frac{1 - e^{-0.0277\ years^{-1} \times 26\ years}}{0.0277\ years^{-1}}$$

$$Soil_{dep} = 0.0044\ mg/kg$$

2.1.2 Total Concentrations

The total concentration of COPCs in soil following deposition (i.e., Base + Project Case) was calculated using the following equation:

$$Soil_{total} = Soil_{dep} + Soil_{base}$$

Where:

$Soil_{total}$ = Total soil concentration of a COPC
$Soil_{dep}$ = Estimated concentration a COPC in soil attributed to particulate deposition from air (mg/kg)
$Soil_{base}$ = Measured baseline soil concentration of a COPC

Soil EPCs can be found in Table 1-1 (Attachment 1). Soil baseline was generally based on the 95% Upper Confidence Limit of the Mean (UCLM) of soil concentrations measured within the LSA as discussed in Appendix A. The total soil concentration for arsenic (representing the Base + Operations assessment case; referred to as "Project" in the model) is used in the remaining sample calculations, where total surface (i.e., top 2 cm) concentrations were used to project exposure through human health direct contact pathways and total subsurface concentrations (i.e., top 20 cm) were used to project uptake into plants consumed by humans.

Example 2-2: Total Concentration of Arsenic in Soil at Receptor Location L1

Surface Soil (i.e., top 2 cm)

$$Soil_{tot} = 0.0439\ mg/kg + 1.56\ mg/kg$$

$$Soil_{tot} = 1.60\ mg/kg$$

Sub-Surface Soil (i.e., top 20 cm)

$$Soil_{tot} = 0.00439\ mg/kg + 1.56\ mg/kg$$

$$Soil_{tot} = 1.56\ mg/kg$$

2.2 Dust

Potential concentrations of COPCs in dust were estimated based on surface soil concentrations and particulate concentrations in air from Health Canada (2024), as follows:

$$C_D = \frac{C_s\ x\ Pair}{CF}$$

Where:

C_D = COPC concentration in dust (mg/m^3)
C_s = COPC concentration in surface soil (mg/kg)
P_{air} = Default airborne concentration of respirable particulate matter, 0.76 µg/m^3
CF = conversion factor from µg/m^3 to kg/m^3; 10^9

Example 2-3: Concentration of Arsenic in Soil Dust

$$C_D = \frac{1.60\ \text{mg/kg}\ x\ 0.76\ \mu g/m3}{10^9\ \mu\text{g/m3 per kg/m3}}$$

$$C_D = 1.22E^{-9}\ \text{mg/m}^3$$

2.3 Surface Water

Duley Lake was selected to represent worst-case water concentrations in the HHRA model as effluent from the Project will be discharged directly into this water body. The EPCs for surface water were as follows:

- Average baseline concentration measured in Duley Lake, representing the Base Case
- Predicted concentrations in Duley Lake provided by the Water Quality Discipline that considered baseline concentrations and the changes to surface water quality from each Project phase (Operations, Closure, Post-Closure), representing the Base + Project Case[2]. Predicted concentrations were represented by the maximum annual average among all the years within a Project phase.

Surface water EPCs can be found in Table 1-1 (Attachment 1).

2.4 Plant Surface Deposition Modelling

Atmospheric chemical deposition to plant surfaces was calculated using a procedure published by the US EPA (2005). The US EPA method for calculating plant surface deposition tabulates outputs in mg/kg dry weight; a conversion to wet weight was added using moisture content. Moisture content for berries and traditional plants was site specific while above ground plants was taken from US EPA (2005). The concentration in plants from deposition (i.e., the Project Alone Case) was calculated using the following equation:

$$Plant_{dep} = \frac{Q \times Rp \times (1 - e^{-kp \times tp})}{Yp \times kp} \times (1 - MC)$$

Where:

$Plant_{dep}$ = Concentration of COPC in plant tissue attributed to deposition from air (mg/kg wet weight 'ww')
Q = Rate of airborne particle deposition (mg/m^2/year)
Rp = Intercept fraction of the edible portion of the plant (unitless)
kp = Plant surface loss coefficient (year^{-1})
tp = Length of plant exposure to deposition per harvest of edible portion of plant (years)
Yp = Yield or standing crop biomass of the edible portion of the plant (kg-dry weight (dw)/m^2)
MC = Moisture content (kg water/ kg tissue ww')

As a conservative assumption, the current assessment did not adjust concentrations in plants for human consumption with a washing and peeling factor to account for potential reduction in exposures where washing or peeling occurs.

Inputs for calculating plant deposition are provided in Table 1-1, 1-7, 1-10 and 1-11 (Attachment 1). Plant EPCs from deposition are provided in Table 1-1. Sample calculations are provided below for berries, above ground garden produce, and traditional plants at receptor location L1.

[2] In the HHRA model Base + Project Case is represented by the terms "Project (for Operations), "Closure" and "Post Closure"

Example 2-4: Deposition of Arsenic to Berries Surface

$$Berries_{dep} = \frac{7.12E^{-2}\text{mg/m}^2\text{/year} \times 0.053 \times (1 - e^{-18\ years^{-1} \times 0.164\ years})}{0.252\ kg - DW/m^2 \times 18\ years^{-1}} \times (1 - 0.85\ kg/kg)$$

$$Berries_{dep} = 1.18E^{-4} mg/kg\ ww$$

Example 2-5: Deposition of Arsenic to Above Ground Produce Surface

$$AG - Plant_{dep} = \frac{7.12E^{-2}\text{mg/m}^2\text{/year} \times 0.39 \times (1 - e^{-18\ years^{-1} \times 0.16\ years})}{2.24\ kg - DW/m^2 \times 18\ years^{-1}} \times (1 - 0.87\ kg/kg)$$

$$AG - Plant_{dep} = 8.45E^{-5} mg/kg\ ww$$

Example 2-6: Deposition of Arsenic to Traditional Plants Surface

$$Trad - Plant_{dep} = \frac{7.12E^{-2}\text{mg/m}^2\text{/year} \times 0.982 \times (1 - e^{-18\ years^{-1} \times 0.164\ years})}{5.66\ kg - DW/m^2 \times 18\ years^{-1}} \times (1 - 0.51\ kg/kg)$$

$$Trad - Plant_{dep} = 3.19E^{-4} mg/kg\ ww$$

2.5 Soil Bioaccumulation Modelling

Bioaccumulation factors (BAF) were used to model uptake of COPCs from total sub-surface soil (0.2m depth) into plants as follows:

$$Plant_{soil} = C_s \times BAF$$

Where:

$Plant_{soil}$ = Concentration of COPC in plant tissue attributed to soil uptake (mg/kg wet weight 'ww)
C_s = Concentration of COPC in soil (mg/kg dry weight 'dw')
BAF = Bioaccumulation factor (mg COPC/kg ww tissue) / (mg/kg dw media)

As discussed in Appendix A, site-specific BAFs were derived for berries and traditional plants from measured baseline data collected within the LSA. However, literature based BAFs from US EPA (2005) were used when sample data were highly censored with non-detect data. Literature-based BAFs from US EPA (2005) were also used for garden produce in absence of site-specific data. The BAFs can be found in Table 1-12 (Attachment F1). The plant EPCs from soil uptake can be found in Table 1-1(Attachment F1).. Sample calculations are provided below for berries, above ground garden produce, below ground garden produce and traditional plants at receptor location L1.

Example 2-7: Soil Bioaccumulation of Arsenic to Berries

$$Berries_{soil} = 1.56\ mg/kg \times 8.23E^{-4}$$

$$Berries_{soil} = 1.29E^{-3}\ mg/kg\ ww$$

Example 2-8: Soil Bioaccumulation of Arsenic to Above Ground Garden Produce

$$AG - Plant_{soil} = 1.56\ mg/kg \times 8.23E^{-4}$$

$$AG - Plant_{soil} = 1.29E^{-3}\ mg/kg\ ww$$

Example 2-9: Soil Bioaccumulation of Arsenic to Below Ground Garden Produce

$$BG - Plant_{soil} = 1.56\ mg/kg \times 1.04E^{-3}$$

$$BG - Plant_{soil} = 1.63E^{-3}\ mg/kg\ \text{ww}$$

Example 2-10: Soil Bioaccumulation of Arsenic to Traditional Plants

$$Trad - Plant_{soil} = 1.56\ mg/kg \times 8.23E^{-4}$$

$$Trad - Plant_{soil} = 1.29E^{-3}\ mg/kg\ ww$$

2.6 Total Plant Concentrations

The total concentration of COPCs in berries, above-ground produce, and traditional plants were calculated as follows:

$$Plant_{total} = Plant_{soil} + Plant_{dep}$$

Where:
$Plant_{total}$ = Total concentration of COPC in plant tissue (mg/kg wet weight 'ww')
$Plant_{soil}$ = Concentration of COPC in plant tissue attributed to soil uptake (mg/kg ww)
$Plant_{dep}$ = Concentration of COPC in plant tissue attributed to deposition from air (mg/kg ww)

The total plant EPCs be found in Table 1-1 (Attachment F1). Sample calculations are provided below for berries, above ground garden produce, and traditional plants.

Example 2-11: Total Concentration of Arsenic in Berries at Receptor Location L1

$$Berries_{tot} = 1.29E^{-3}\ mg/kg + 1.18E^{-4} mg/kg$$

$$Berries_{tot} = 1.41E^{-3}\ mg/kg\ ww$$

Example 2-12: Total Concentration of Arsenic in Above Ground Garden Produce at Receptor Location L1

$$AG - Plant_{tot} = 1.29E^{-3}\ mg/kg + 8.45E^{-5}\ mg/kg$$

$$AG - Plant_{tot} = 1.37E^{-3}\ mg/kg\ ww$$

Example 2-13: Total Concentration of Arsenic in Traditional Plants at Receptor Location L1

$$Trad - Plant_{tot} = 1.29E^{-3}\ mg/kg + 3.19E^{-4} mg/kg$$

$$Trad - Plant_{tot} = 1.61E^{-3}\ mg/kg\ ww$$

2.7 Surface Water Bioaccumulation Modelling

2.7.1 Fish

Site-specific BAFs or literature-based bioconcentration factors (BCF) were used to model uptake of COPCs from surface water into fish as follows:

$$Fish = C_w \times BCF \ or \ BAF$$

Where:

Fish = Concentration of COPC in fish tissue (mg/kg wet weight 'ww')
C_w = Concentration of COPC in surface water (mg/L)
BCF = Bioconcentration factor (L/kg ww)
BAF = Bioaccumulation factor (L/kg ww)

As discussed in Appendix A, site-specific BAFs were derived for fish from measured baseline data collected within Duley Lake. However, literature based BCFs from US EPA (2005) were used when sample data were highly censored with non-detect data. The BAFs/BCFs can be found in Table 1-12 (Attachment F1). The fish EPCs can be found in Table 1-1.

Example 2-14: Bioaccumulation of Total Arsenic to Fish Tissue in Duley Lake

$$Fish = 0.000456 \ mg/L \ \times 114 \ L/kg$$

$$Fish = 5.19E^{-2} \ mg/kg$$

2.8 Wild Game

Wild game tissue concentrations (mg/kg ww) consumed by humans were derived using the wildlife exposure model for both the Base Case and the Project Alone Case. The wildlife exposure model is presented in Attachment F2 and discussed in detail in Section 3.0, along with sample calculations.

The wild game tissue concentrations for moose, hare, grouse and mallard derived from the wildlife exposure model were inputted into the human health model, as presented in Table 1-1 (Attachment F1).

3.0 WILDLIFE EXPOSURE MODEL

Wildlife tissue concentrations were determined to estimate risk to human health from the consumption of wild game in the LSA. Tissue concentrations were calculated following the US EPA (2005) methodology. To estimate tissue concentrations, wildlife species were assumed to be exposed to COPCs through incidental soil ingestion, inhalation of dust, ingestion of surface water and ingestion of food. The following sections describe the calculations used to determine the EPCs for wild game (Moose, Hare, Grouse, Mallard), along with sample calculations for Mallard exposed to arsenic during the Base + Operations Case (referred to as Project in the model). The wildlife exposure model is presented in Attachment F2.

3.1 Wildlife Exposure Point Concentrations

EPCs for wildlife were characterized for the same assessment scenarios as human health[3]: Base Case, Project Alone Case and Base + Project Case (as described in Section 2.0).

The methods for deriving EPCs used to estimate wildlife tissue concentrations are summarised in Table 3.

Table 3: Methods for Deriving Base and Project Alone EPCs for Wildlife

Environmental Media	Base Case Concentrations (before Project)	Project Alone Case Concentrations (after Project)
Soil	A baseline soil quality program was conducted in 2024 to characterize the existing metal concentrations within the LSA. The 95TH percentile of data was selected as the Base Case EPC for wildlife. See Appendix A.	Projected changes to soil quality from the Project (i.e., due to aerial deposition of dust) were modelled as part of the HHRA using the highest air to soil deposition rates modelled by the air quality discipline within the LSA (see Section 3.1.1).
Dust	Base Case concentrations of dust in ambient air were predicted based on measured baseline soil concentrations and default assumptions on concentrations of particulates in air from Health Canada (2024)	Project Alone concentrations of dust in ambient air were predicted based on predicted soil concentrations because of the Project and default assumptions on concentrations of particulates in air from Health Canada (2024) (see Section3.1.2)
Surface Water	A baseline water quality program was conducted in 2024 to characterize the existing surface water quality in the watersheds within the LSA, immediately downstream of the Project. The Base Case EPC was represented by the maximum measured average concentration among all surface water bodies (i.e., Duley Lake, Duley Lake Outlet, Pike Lake, and Riordan Lake). Based on the assumption that wildlife could access all surface water bodies in the LSA. See Appendix A.	Predicted changes to water quality from the Project (i.e., due to water discharges) were modelled by the water quality discipline for several lakes and rivers in the LSA expected to be influenced by the Project. The Project Alone EPC was represented by the maximum predicted annual average concentration among all surface water bodies (i.e., Duley Lake, Duley Lake Outlet, Pike Lake, and Riordan Lake). (See Section 3.1.3).
Browse *(Moose, Hare, Grouse, Mallard)*	Base Case browse concentrations were predicted from literature-based BAFs and measured baseline soil concentrations (see Section3.1.4.)	Project Alone concentrations in browse were derived based on the predicted changes to soil quality and dust deposition from the Project. Browse tissue concentrations from dust deposition to plant surfaces were predicted based models from US EPA (2005). Browse tissue concentrations from soil bioaccumulation were predicted from literature-based BAFs x predicted Project Alone concentration in soil. Tissue concentrations from soil bioaccumulation and deposition were then summed to get a total concentration (See Section 3.1.4)

[3] In the wildlife exposure model the assessment cases are represented by the following terms:

Base = Base Case

Project = Base Case + Incremental Concentrations from Operations

Closure = Base Case + Incremental Concentrations from Closure

Post Closure = Base Case + Incremental Concentrations from Post Closure

Project-Base = Incremental Concentrations from Operations alone

Closure-Base = Incremental Concentrations from Closure alone

Post Closure-Base = Incremental Concentrations from Post Closure alone

Table 3: Methods for Deriving Base and Project Alone EPCs for Wildlife

Environmental Media	Base Case Concentrations (before Project)	Project Alone Case Concentrations (after Project)
Terrestrial Invertebrates *(Grouse, Mallard)*	Base Case terrestrial invertebrate concentrations were predicted from literature-based BAFs and measured baseline soil concentrations (see Section3.1.5).	Project Alone concentrations in terrestrial invertebrates were derived from literature-based BAFs x predicted Project Alone concentrations in soil (see Section 3.1.5).
Aquatic Plants *(Moose, Mallard)*	Base Case aquatic plant concentrations were predicted from literature-based BAFs and measured baseline surface water concentrations (see Section 3.1.6).	Project Alone concentrations in aquatic plants were derived from literature-based BAFs x predicted Project Alone concentrations in surface water (see Section 3.1.6).
Aquatic Invertebrates *(Mallard)*	Base Case aquatic invertebrate concentrations were predicted from literature-based BAFs (and measured baseline surface water concentrations (see Section 3.1.6).	Base Case aquatic invertebrate concentrations were predicted from literature-based BAFs and measured baseline surface water concentrations (see Section 3.1.6).

Notes: BAF = bioaccumulation factor, LSA = local study area, HHRA = human health risk assessment

All literature-based BAFs and regression models were presented on a dry weight basis. If a literature-based BAF was presented in wet weight, it was converted to dry weight using the following equation:

$$BAF_{dw} = \frac{BAF_{ww}}{(1 - MC)}$$

Where:

BAF_{dw} = Bioaccumulation factor in dry weight (mg COPC / kg dw) / (mg COPC / L)
BAF_{ww} = Bioaccumulation factor in wet weight (mg COPC / kg ww) / (mg COPC / L)
MC = Moisture content (unitless)

For media where this conversion was done, the moisture contents were 83.3% for benthic invertebrates; 65.7% for aquatic plants; and 83.3% for terrestrial invertebrates based on US EPA (1999). See Table 2-8 (Attachment F2).

Further details on the derivation of EPCs are provided below, along with sample calculations for arsenic. All EPCs considered in the wildlife exposure model are provided in Table 2-1 (Attachment F2).

3.1.1 Soil

Soil exposure concentrations for wildlife were calculated with the same method described in Section 2.1; however, since wildlife could potentially reside or travel anywhere in the LSA, the highest deposition rate predicted for Project Operations was selected for the calculation of the EPC.

Inputs for calculating soil deposition concentrations can be found in Attachment 2: Table 2-1 (air deposition rates), Table 2-5 (soil characteristics) and Table 2-6 (soil loss constants). Soil EPCs can be found in Table 2-1.

Example 3-1: Deposition of Arsenic to Soil for Wildlife Exposure

$$Soil_{dep} = \frac{Q}{Z \times BD} \times \frac{1 - e^{(-ks \times t)}}{ks}$$

Surface Soil (i.e., top 2 cm)

$$Soil_{dep} = \frac{2.56\ mg/m^2/year}{0.02\ m \times 1500\ kg/m^3} \times \frac{1 - e^{-0.0277\ years^{-1} \times 26\ years}}{0.0277\ years^{-1}}$$

$$Soil_{dep} = 1.60\ mg/kg$$

Sub-Surface Soil (i.e., top 20 cm)

$$Soil_{dep} = \frac{2.56\ mg/m^2/year}{0.2\ m \times 1500\ kg/m^3} \times \frac{1 - e^{-0.0277\ years^{-1} \times 26\ years}}{0.0277\ years^{-1}}$$

$$Soil_{dep} = 0.16\ mg/kg$$

Example 3-2: Total Concentration of Arsenic in Soil for Wildlife Exposure

$$Soil_{tot} = Soil_{dep} + Soil_{base}$$

Surface Soil (i.e., top 2 cm)

$$Soil_{tot} = 1.6\ mg/kg + 2.18 mg/kg$$

$$Soil_{tot} = 3.78\ mg/kg$$

Sub-Surface Soil (i.e., top 20 cm)

$$Soil_{tot} = 0.16\ mg/kg + 2.18 mg/kg$$

$$Soil_{tot} = 2.34\ mg/kg$$

The total soil concentration for arsenic (representing the Base + Operations assessment case; referred to as "Project" in the model) is used in the remaining sample calculations, where the total surface (i.e., top 2 cm) concentrations were used to project exposure through soil ingestion and total subsurface concentrations (i.e., top 20 cm) were used to project uptake into food items consumed by wildlife.

3.1.2 Dust

Potential concentrations of COPCs in dust were estimated based on surface soil concentrations and particulate concentrations in air from Health Canada (2024), as follows:

$$C_D = \frac{C_s\ x\ P_{air}}{CF}$$

Where:

C_D = COPC concentration in dust (mg/m^3)
C_s = COPC concentration in surface soil (mg/kg)
P_{air} = Default airborne concentration of respirable particulate matter, 0.76 µg/m^3
CF = Conversion factor from µg/m^3 to kg/m^3; 10^9

Example 3-3: Concentration of Arsenic in Soil Dust

$$C_D = \frac{3.78\ \text{mg/kg}\ x\ 0.76\ \mu g/m^3}{10^9\ \mu g/m^3\ \text{per kg}/m^3}$$

$$C_D = 2.87E^{-9}\ \text{mg/m}^3$$

3.1.3 Surface Water

The surface water consumption of wildlife is not restricted to certain area, and therefore the EPCs for surface water considered for the wildlife were as follows:

- Maximum average baseline concentration measured among all assessed lakes in the LSA, representing the Base Case
- Maximum annual average predicted concentrations among all assessed lakes in the LSA, provided by the Water Quality Discipline. The predicted concentrations from Water Quality Discipline considered baseline concentrations and the changes to surface water quality from each Project phase (Operations, Closure, Post-Closure), representing the Base + Project Case[4].

Surface water EPCs can be found in Table 2-1 (Attachment F2).

3.1.4 Browse

The total concentration of COPCs in browse was calculated as follows:

$$Plant_{total} = Plant_{soil} + Plant_{dep}$$

Where:

$Plant_{total}$ = Total concentration of COPC in plant tissue (mg/kg wet weight)
$Plant_{soil}$ = Concentration of COPC in plant tissue attributed to sub-surface soil uptake (mg/kg wet weight)
$Plant_{dep}$ = Concentration of COPC in plant tissue attributed to deposition from air (mg/kg wet weight)

Atmospheric chemical deposition to plant surfaces was calculated using a procedure published by the US EPA (2005), as presented in Section 2.4. Inputs for calculating plant deposition are provided in Attachment F2: Table 2-1 (air deposition rates) Table 2-12 (plant-specific variables).

The model used to determine uptake from soil to browse depends on the chemical. A BAF or regression was used, as shown below.

$$Plant_{soil} = C_s \times BAF$$

$$Plant_{soil} = e^{m \times (\ln C_s) + b}$$

Where:

$Plant_{soil}$ = Concentration of COPC in plant tissue attributed to uptake from soil (mg/kg dw)
C_s = Concentration of COPC in soil (mg/kg)
BAF = Bioaccumulation factor (mg COPC /kg dw tissue) /(mg COPC/kg dw)
m = COPC uptake slope factor (mg COPC/kg dw tissue) / (mg/kg dw soil)
b = COPC uptake model intercept (unitless)

[4] In the wildlife model Base + Project Case is represented by the terms “Project” (for Operations), “Closure” and “Post Closure”

Literature-based BAFs or regression models were used for browse in absence of site-specific data. Literature BAFs were pulled from the following sources (in order of preference): BJC 1998, US EPA 1999, then Baes et al 1984.

The bioaccumulation models for each COPC can be found in Table 2-7 (Attachment F2). Plant EPCs can be found in Table 2-1.

Example 3-4: Deposition of Arsenic to Browse Surface

$$Plant_{dep} = \frac{Q \times Rp \times (1 - e^{-kp \times tp})}{Yp \times kp}$$

$$Browse_{dep} = \frac{2.56\ \mathrm{mg/m^2/year} \times 0.053 \times (1 - e^{-18\ years^{-1} \times 0.16\ years})}{0.252\ kg/m^2 \times 18\ years^{-1}}$$

$$Browse_{dep} = 0.028\ mg/kg$$

Example 3-5: Soil Bioaccumulation of Arsenic to Browse

$$Browse_{soil} = e^{0.564 \times \mathrm{Ln}[2.34\ mg/kg] + (-1.992)}$$

$$Browse_{soil} = 0.22\ mg/kg$$

Example 3-6: Total Concentration of Arsenic in Browse

$$Browse_{total} = 0.220\ mg/kg + 0.0282\ mg/kg$$

$$Browse_{total} = 0.25\ mg/kg$$

3.1.5 Terrestrial Invertebrates

Uptake of COPCs from soil to terrestrial invertebrates were derived from a BAF or regression model., as shown in Section 3.1.5 for terrestrial plants. Literature-based BAFs or regression models were used for terrestrial invertebrates in absence of site-specific data. Literature BAFs were pulled from the following sources (in order of preference): Sample et al 1998, then US EPA 1999. The BAFs can be found in Table 2-7 (Attachment F2). Soil invertebrate EPCs can be found in Table 2-1.

The model used to determine uptake from soil to terrestrial invertebrates depends on the chemical. A BAF or regression was used, as shown below.

$$T - Invert_{soil} = C_s \times BAF$$

$$T - Invert_{soil} = e^{mLn(Cs)+b}$$

Where:

$T\text{-}Invert_{soil}$	= Concentration of COPC in terrestrial invertebrate tissue attributed to uptake from soil (mg/kg dw)
C_s	= Concentration of COPC in soil (mg/kg)
BAF	= Bioaccumulation factor (mg COPC /kg dw tissue) /(mg COPC/kg dw)
m	= COPC uptake slope factor (mg COPC/kg dw tissue) / (mg/kg dw soil)
b	= COPC uptake model intercept (unitless)

Example 3-7: Soil Bioaccumulation of Arsenic to Terrestrial Invertebrates

$$T - Invert_{soil} = e^{0.71 \times \mathrm{Ln}[2.34\ mg/kg] + (-1.42)}$$

$$T - Invert_{soil} = 0.44\ mg/kg\ dw$$

3.1.6 Aquatic Plants and Invertebrates

Literature-based BCFs were used to model uptake of COPCs from surface water into aquatic plants and invertebrates as follows:

$$Aquatic\ Tissue = C_w \times BCF$$

Where:

Aquatic Tissue = Concentration of COPC in either aquatic plant or invertebrate tissue (mg/kg dry weight)
C_w = Concentration of COPC in surface water (mg/L)
BCF = Bioconcentration factor (L/kg dw)

Literature-based BCFs from US EPA (1999) were used for aquatic plants and invertebrates in absence of site-specific data. In cases where a BCF was not listed for a parameter the BCF for nickel was used as a surrogate for cobalt or the BCF for chromium was used as a surrogate for iron, manganese and molybdenum. Surrogates were selected based on the proximity of elements in the periodic table, assuming similar properties. The BCFs can be found in Table 2-7 (Attachment F2). Aquatic plant and aquatic invertebrate EPCs can be found in Table 2-1.

Example 3-8: Surface Water Bioaccumulation of Arsenic to Aquatic Plants

$$A - Plant_{sw} = 0.000456\ mg/L \times 854\ L/kg$$

$$A - Plant_{sw} = 0.39\ mg/kg\ dw$$

Example 3-9: Surface Water Bioaccumulation of Arsenic to Aquatic Invertebrates

$$A - Invert_{sw} = 0.000456\ mg/L \times 437\ L/kg$$

$$A - Invert\ _{sw} = 0.20\ mg/kg\ dw$$

3.2 Wildlife Characterization

The ecological receptors modeled in this ERA included moose, hare, grouse, and mallard. Receptor characteristics and dietary composition for each species was used to estimate wildlife exposures as summarized in Table 4 and Table 5. The wildlife characteristics and dietary assumptions are also provided in Table 2-8 and Table 2-9 (Attachment F2) of the model.

Table 4: Wildlife Characteristics

Receptor Characteristics	Grouse	Mallard	Hare	Moose	Source
Body Weight (BW; kg)	0.55	1.2	1.3	400	FCSAP 2012
Food Ingestion Rate (IR_F; kg dry food/day)	$3.31E^{-2}$	0.06	$7.80E^{-2}$	8	FCSAP 2012
Air Inhalation/Dust Ingestion Rate (IR_A; m^3/day)	0.26	0.47	0.67	66	US EPA 1993[a]
Water Ingestion Rate (IR_W; L/day)	0.04	0.07	0.13	20	FCSAP 2012
Percent Soil Ingestion Rate (P_IR_S; %)	2%	3%	6%	2%	FCSAP 2012
Soil Ingestion Rate (IR_S; kg dry soil/day)	$6.62E^{-4}$	$1.98E^{-3}$	$4.91E^{-3}$	0.16	Calculated [b]

Notes:
a. Calculated based on allometric equation 3-20 for mammals
b. Calculated by multiplying percent soil ingestion (P_SIR) and food ingestion rate (FIR).

Table 5: Dietary Composition of Wildlife Species

Wildlife Species	Diet
Grouse	Browse (85%)[a,b]; terrestrial invertebrates (15%)
Mallard	Browse (5%)[c]; aquatic plants (50%); aquatic invertebrates (40%); terrestrial invertebrates (5%).
Hare	Browse (100%) [d]
Moose	Browse (80%); aquatic plants (20%).

Notes:
a. Browse is defined as edible vegetation - such as twigs, branches, shoots and leaves.
b. Berry consumption (30% of diet) incorporated as browse
c. Berry consumption (5% of diet) incorporated as browse
d. Berry consumption (10% of diet) incorporated as browse

3.3 Wildlife Daily Intake

Wildlife exposure considered incidental soil ingestion, surface water ingestion, air inhalation, and food ingestion to estimate the daily intake of COPCs (mg/day) calculated based on receptor-specific parameters such as ingestion rates, dietary preferences, and the concentration of COPCs in the environmental media (e.g., surface water, soil, browse, terrestrial invertebrates, aquatic plants and aquatic invertebrates).

Further details on the derivation of wildlife exposure estimates are provided below and are based on CCME (2020). Sample calculations for Mallard exposure to arsenic based on the Base+Operations Case (referred to as Project in the model) is also presented.

Wildlife exposure estimates expressed as daily intakes are provided in Table 2-2 (Attachment F2). EPCs and receptor characteristics for estimating wildlife exposures are provided in Table 2-1 and Table 2-9.

3.3.1 Soil ingestion

Potential soil ingestion exposures were estimated by incidental soil ingestion rates and soil concentrations. Wildlife were assumed to be directly exposed to surface soil (0.02 m depth).

$$DI_{soil} = C_S \times IR_S$$

Where:

DI_{soil} = Estimated daily intake from incidental ingestion of constituent of potential concern (COPC) in soil (mg/day)
C_S = COPC concentration in soil (mg/kg)
IR_S = Soil ingestion rate (kg soil/day)

Example 3-10: Intake of Arsenic to Mallard via Soil Ingestion

$$DI_{soil} = 3.78\ mg/kg \times 0.0020\ kg\ soil/day$$

$$DI_{soil} = 7.48E^{-3}\ mg/day$$

3.3.2 Dust Inhalation

Potential exposures from dust inhalation were estimated using inhalation rates and predicted airborne dust concentrations.

$$DI_{Dust} = C_D \times IR_A$$

Where:

DI_{Dust} = Estimated daily intake from incidental ingestion of COPC from dust inhalation (mg/day)
C_D = COPC concentration in dust (mg/m^3)
IR_A = Air inhalation rate (m^3/day)

Example 3-11: Intake of Arsenic to Mallard via Dust Inhalation

$$DI_{Dust} = 2.87E^{-9} mg/m^3 \times 0.47 m^3/day$$

$$DI_{dust} = 1.35E^{-9}\ mg/day$$

3.3.3 Water ingestion

Potential exposures from drinking water ingestion were estimated by drinking water ingestion rates and surface water concentrations.

$$DI_{water} = C_w \times IR_W$$

Where:

DI_{water} = Estimated daily intake from incidental ingestion of COPC in water (mg/day)
C_w = COPC concentration in surface water (mg/L)
IR_S = Water ingestion rate (L/day)

Example 3-12: Intake of Arsenic to Mallard via Surface Water Ingestion

$$DI_{water} = 4.56E^{-4} mg/L \times 0.07\ L/day$$

$$DI_{water} = 3.28E^{-5} mg/day$$

3.3.4 Food ingestion

Potential food ingestion exposures were estimated by ingestion rates, dietary proportions of each food item and tissue concentrations of each food item:

$$DI_{Food\ i} = C_{f\ i} \times Pi \times FIR$$

The results of these were then summed:

$$DI_{Food} = \sum DI_{Food\ i}$$

Where:

DI_{Food} = Estimated daily intake from ingestion of COPC all food items (mg dw/day)
$DI_{Food\ i}$ = Estimated daily intake from ingestion of COPC in (i) food item (mg dw/day)
C_f = Concentration of a COPC found in food item (mg dw /kg)
P_i = Proportion of food item comprising of the wildlife species diet (unitless)
FIR = Food ingestion rate of wildlife species (kg dw food/day)

Example 3-13: Intake of Arsenic to Mallard via Browse Ingestion (DI_B)

$$DI_B = 0.25 mg/kg \times 0.05 \times 0.06\ kg\ food/day$$

$$DI_B = 7.45E^{-4} mg/day$$

Example 3-14: Intake of Arsenic to Mallard via Terrestrial Invertebrate Ingestion (DI_{TI})

$$DI_{TI} = 0.44\ mg/kg \times 0.05 \times 0.06\ kg\ food/day$$

$$DI_{TI} = 1.31E^{-3} mg/day$$

Example 3-15: Intake of Arsenic to Mallard via Aquatic Plants Ingestion (DI_{AP})

$$DI_{AP} = 0.39 mg/kg \times 0.5 \times 0.06\ kg\ food/day$$

$$DI_{AP} = 1.17E^{-3}\ mg/day$$

Example 3-16: Intake of Arsenic to Mallard via Aquatic Invertebrates Ingestion (DI_{AI})

$$DI_{AI} = 0.20 mg/kg \times 0.40 \times 0.06\ kg\ food/day$$

$$DI_{AI} = 4.78E^{-3}\ mg/day$$

Example 3-17: Total Food Intake

$$DI_{Food} = 7.45E^{-4} mg/day + 1.31E^{-3} mg/day + 1.17E^{-3} mg/day + 4.78E^{-3} mg/day$$

$$DI_{Food} = 1.85E^{-2}\ mg/day$$

3.3.5 Total Wildlife Daily Intake

Total daily intake was calculated by summing the exposures for each type of exposure media (i.e., soil, water, food, air).

$$DI_{total} = DI_{soil} + DI_{dust} + DI_{water} + DI_{food}$$

Where:

DI_{Total} = Estimated total daily intake from ingestion of COPC (mg/day)
DI_{soil} = Estimated daily intake from incidental ingestion of COPC in soil (mg/day)
DI_{dust} = Estimated daily intake from incidental ingestion of COPC through dust inhalation (mg/day)
DI_{food} = Estimated daily intake from ingestion of COPC in food (mg/day)
DI_{water} = Estimated daily intake from incidental ingestion of COPC in water (mg/day)

Example 3-18: Total Daily Intake of Arsenic to Mallard

$$DI_{total} = 7.48E^{-3}mg/day + 1.35E^{-9}mg/day + 1.85E^{-2}mg/day + 3.28E^{-5}mg/day$$

$$DI_{total} = 2.60E^{-2}mg/day$$

3.4 Wildlife Concentrations

Biotransfer factors (BTFs) are used to translate an estimated intake of a chemical (mg/day) to a tissue concentration (mg/kg of wet weight) based on guidance from US EPA (2005). Where possible site-specific BTFs were derived as discussed below.

3.4.1 Site-Specific Biotransfer Factors

To calculate predicted game meat tissue concentrations, a biotransfer factor (BTF) was calculated for the site. The site specific BTF was calculated by dividing the measured baseline tissue concentrations from Chan et al. (2021) in the Taiga Shield ecozone (where the project is located) by the calculated base case exposure concentrations. In absence of baseline game tissue concentrations for barium and beryllium, literature-based BTFs from Baes et al. (1984) were used.

$$BTF_{ss} = C_{tissue} \,/\, DI_{Total}$$

Where:

BTF_{ss} = Site specific Biotransfer Factor ([mg/kg ww tissue]/[mg/day])
C_{tissue} = Measured concentration of COPC in wild game tissue (mg/kg ww tissue)
DI_{Total} = Total daily intake, base case (mg/day)

Example 3-19: Site Specific BTF

$$BTF_{ss} = \frac{8.00E^{-2}mg/kg\ ww}{1.35E^{-2}mg/day}$$

$$BTF_{ss} = 5.94\ [\text{mg/kg ww tissue}]/[\text{mg/day}]$$

The baseline game meat concentrations and baseline exposure intakes used to calculate site-specific BTFs are provided in Table 2-11 (Attachment F2). For reference, literature-based BTFs are shown alongside site-specific values to demonstrate that the latter are more conservative.

3.4.2 Tissue Concentrations

Chemical concentrations in game meat tissue were predicted based on the following equation (US EPA 2005):

$$C_{tissue} = DI_{total} \times BTF$$

Where:

C_{tissue} = Concentration of COPC in wild game tissue (mg/kg ww tissue)
DI_{total} = Estimated total daily intake from ingestion of COPC (mg/day)
BTF = Biotransfer Factor ([mg/kg ww tissue]/[mg/day])

Concentration of COPCs in wildlife tissue can be found in Table 2-4 (Attachment F2).

Example 3-20: Tissue Concentration of Arsenic in Mallard

$$C_{tissue} = 2.60E^{-2} mg/day \times 5.94 \text{ [mg/kg ww tissue]/[mg/d]}$$

$$C_{tissue} = 1.54E^{-1} mg/kg$$

4.0 HUMAN HEALTH RECEPTOR CHARACTERIZATION

The following types of receptors were evaluated to characterize exposures in the multi-media assessment[5]:

- **Commercial User:** The commercial user includes individuals who attend institutional facilities (i.e., schools and hospitals) within the LSA, and are exposed to COPCs through direct soil contact. These receptors are assumed to be exposed to Project-related impacts for 10 hours per day, 5 days per week for 48 weeks per year as per Health Canada (2024) commercial land use assumptions.
- **Urban Resident:** The urban resident includes individuals who permanently reside in the communities within the LSA and are exposed to COPCs through direct soil contact and the consumption of garden produce. These receptors are assumed to be exposed to Project-related impacts everyday.
- **Cabin Resident – Permanent and Seasonal:** The cabin resident includes individuals who reside in the cabins within the LSA, and are exposed to COPCs through direct soil contact, consumption of country foods (fish, wild game, berries, traditional plants and backyard garden produce), ingestion of drinking water from lakes, and direct surface water contact while swimming or bathing. Both a permanent and seasonal cabin resident were evaluated to understand a potential upper and lower limit of exposure based on varying food consumption rates and exposure durations. The permanent cabin resident is assumed to be exposed to Project-related impacts everyday and have a high reliance on country foods as part of their diet, whereas the seasonal cabin resident is assumed to be present in the LSA on a seasonal basis (i.e., three months per year) and have a moderate reliance on country foods.

[5] In the HHRA model the receptors are represented by the following terms:
COMM = Commercial User
URBN = Urban Resident
RESI = Permanent Cabin Resident
RECR = Seasonal Cabin Resident

Receptor-specific parameters such as body weight, ingestion rate and dietary preferences, and the amount of time a person spends at a location is required to estimate exposure doses.

4.1 General Characteristics

Consistent with HHRA guidance (Health Canada 2024), the toddler was evaluated for the assessment of non-carcinogenic COPCs, and the composite receptor was evaluated for the assessment of carcinogenic COCPs.

The composite receptor considers an exposure over the 80-year lifespan of an individual, comprising 5 months as an infant, 4.5 years as a toddler, 7 years as a child, 8 years as a teen, and 60 years as an adult as per Health Canada (2024) guidance.

The general receptor characteristics used in the HHRA are provided in Table 6 for each life stage. Receptor characteristics were preferentially based on Health Canada (2024), except the incidental surface water ingestion rates while swimming was obtained from US EPA (2019) in absence of Health Canada values. Receptor characteristics are also provided in Table 1-13 (Attachment 1) of the multi-medial model.

Table 6: General Receptor Characteristics

Receptor Characteristics [a]	Units	Infant	Toddler	Child	Teen	Adult
Age	years	<6 mo.	6 mo to <5	5 to <12	12 to <20	≥20
Body weight (BW)	kg	8.2	16.5	32.9	59.7	70.7
Soil ingestion rate (SIR)	mg/day	20	80	20	20	20
Inhalation rate (AIR)	m^3/day	2.2	8.3	14.5	15.6	16.6
Water ingestion rate for drinking (WIR)	L/day	0.3	0.6	0.8	1	1.5
Incidental water ingestion rate (swimming) [b]	L/hour	n/a [c]	0.044	0.044	0.033	0.028
Skin surface area [d]						
Hands (SAH)	cm^2	320	430	590	800	890
Arms (upper and lower) (SAO)	cm^2	550	890	1,480	2,230	2,500
Legs (upper and lower) (SAO)	cm^2	910	1,690	3,070	4,970	5,720
Total body (SAT)	cm^2	3,620	6,130	10,140	15,470	17,640
Soil loading to exposed skin						
Hands (SLH)	kg/cm^2/ event	$1x10^{-7}$	$1x10^{-7}$	$1x10^{-7}$	$1x10^{-7}$	$1x10^{-7}$
Surfaces other than hands (SLO)	kg/cm^2/ event	$1x10^{-8}$	$1x10^{-8}$	$1x10^{-8}$	$1x10^{-8}$	$1x10^{-8}$

Notes: ≥ = greater than or equal to; cm^2 = square centimetre; kg = kilogram; L = litre; mg = milligram; mo = month.

(a) Unless noted otherwise, general receptor characteristics were obtained from Health Canada (2024).

(b) Based on water ingestion rates (mean) during swimming from a swimming pool study by Dufour (2017) and cited by US EPA (2019). Study authors report that swimming behaviour of recreational pool swimmers may be similar to freshwater swimmers. The water ingestion rate for the more conservative 11 to <16 years age group was used for was used for the toddler and child, the 16 to <21 years age group was used to represent a teen, and the 21+ years age group was used for the adult. Swimming was assumed to occur for 2 hours per day.

(c) Infants were assumed to not participate in in-water activities such as swimming.

(d) Hands, arms and legs were assumed to be potentially exposed through soil dermal contact. Total body was assessment to be potentially exposed through surface water dermal contact while swimming.

4.2 Country Food Assumptions

HHRA guidance from Health Canada (2024) does not provide food consumption rates, but states that these should be selected or derived on a site-specific basis. Food consumption rates were primarily obtained from Health Canada (1994 and 2007). Where Health Canada did not provide values for a particular food item, other literature sources summarizing food consumption rates for Canadian populations were consulted (Richardson 1997 and Chan et al. 2022).

The food consumption rates and dietary proportions applied in the HHRA for each food item and life stage are summarized in Table 7. The assumptions for country food consumption are also provided in Table 1-13 (Attachment 1) of the multi-medial model.

Table 7: Assumptions for Country Food Consumption

Assumption	Units	Life Stage [a]				Source	Notes
		Toddler	Child	Teen	Adult		
Permanent Cabin Resident							
Moose consumption rate	g/day	30.16	40.94	67.99	68.93	HC 1994	Consumption rates for total beef/veal/lamb
Hare consumption rate	g/day	6.49	12.21	23.27	27	HC 1994	Assumed consumption rates for roast and stewing beef
Grouse consumption rate	g/day	6.62	8.36	10.16	10.60	HC 1994	Assume poultry, chicken and turkey rates divided between grouse and mallard
Mallard consumption rate	g/day	6.62	8.36	10.16	10.60		
Dietary proportion of meats from wild game	-	1.00	1.00	1.00	1.00	Assumption	Assume all meat consumed by the permanent cabin resident is local
Fish consumption rate	g/day	20	33	40	40	HC 2007	Based on heavy fish consumers (subsistence or recreational fishing culture)
Berry consumption rate	g/day	7.23	15.32	16.53	15.88	HC 1994	Sum of all berries (strawberries, blueberries, jam)
Dietary proportion of berries harvested from LSA	-	0.50	0.50	0.50	0.50	CCME 2006	Assumed 50% derived from LSA
Traditional plant consumption rate	g/day	2.01	2.93	3.59	4.1	FNFNES 2021	Adult consumption rates from FNFNES, used Richardson 1997 "other vegetables" ratios to get toddler and child rates.
Produce - root vegetables consumption rate	g/day	105	161	227	188	Richardson, 1997	
Produce - other vegetables consumption rate	g/day	67	98	120	137	Richardson, 1997	
Dietary proportion of produce from backyard gardens	-	0.50	0.50	0.50	0.50	CCME 2006	CCME SQG protocol assumption for agricultural land use = 50% of produce ingested from backyard gardens
Seasonal Cabin Resident							
Moose consumption rate	g/day	30.16	40.94	67.99	68.93	HC 1994	Consumption rates for total beef/veal/lamb
Hare consumption rate	g/day	6.49	12.21	23.27	27	HC 1994	Assumed consumption rates for roast and stewing beef
Grouse consumption rate	g/day	6.62	8.36	10.16	10.60	HC 1994	Assume poultry, chicken and turkey rates divided between grouse and mallard
Mallard consumption rate	g/day	6.62	8.36	10.16	10.60		
Dietary proportion of meats from wild game	-	0.20	0.20	0.20	0.20	Assumption	
Fish consumption rate	g/day	10	14	22	22	HC 2007	Based on average daily finfish intake

Table 7: Assumptions for Country Food Consumption

Assumption	Units	Life Stage [a]				Source	Notes
		Toddler	Child	Teen	Adult		
Berry consumption rate	g/day	7.23	15.32	16.53	15.88	HC 1994	Sum of all berries (strawberries, blueberries, jam)
Dietary proportion of berries harvested from LSA	-	0.10	0.10	0.10	0.10	Assumed	
Traditional plant consumption rate	g/day	0.40	0.59	0.72	0.82	FNFNES 2021	Assumed consuming 20% of permanent cabin resident consumption rates for traditional plants
Produce - root vegetables consumption rate	g/day	105	161	227	188	Richardson, 1997	
Produce - other vegetables	g/day	67	98	120	137	Richardson, 1997	
Dietary proportion of produce from backyard gardens	-	0.10	0.10	0.10	0.10	CCME 2006	CCME SQG protocol assumption for residential land use = 10% of produce ingested from backyard gardens
Urban Resident							
Produce - other vegetables	g/day	67	98	120	137	Richardson, 1997	
Produce - root vegetables consumption rate	g/day	105	161	227	188	Richardson, 1997	
Dietary proportion of produce from backyard gardens	-	0.10	0.10	0.10	0.10	CCME 2006	CCME SQG protocol assumption for residential land use = 10% of produce ingested from backyard gardens

Notes: g/day = grams per day; HC = Health Canada; FNFNES = First Nations Food, Nutrition, and Environment Study; CCME = Canadian Council of Ministers of the Environment; SQG = soil quality guideline; - = not applicable; LSA = local study area

a Potential exposure to the infant life stage were assumed to be negligible for the assessment of country foods,

5.0 LESS THAN CHRONIC EXPOSURES

Health Canada (2013; 2023) has proposed an approach for the evaluation of cancer and non-cancer health risks from exposure to chemicals where health effects in an assessment are predicted to be related to chronic (or lifetime) and/or less-than-chronic (less-than-lifetime or short-duration) exposures. A lifetime of exposure is defined as exposure occurring for 24 hours/day; 365 days/year and an 80-year lifetime. Less than chronic exposure scenarios, which are defined to occur between 1 to 3 months are considered sub-chronic (Health Canada 2023) and present a unique pattern of exposure and risk where the chemical may not be eliminated entirely before the next exposure event. Health Canada (2023) states that in these circumstances the HHRA should avoid use of dose averaging with chronic TRVs. Health Canada (2023) suggests that if elimination mechanisms are not saturated, approximately 97% of the chemical present in the body would be eliminated via depuration after a period of five half-lives, as such, 5 half-lives are a minimum expectation between exposures to allow dose averaging with a chronic TRV for a COPC. It is important to note that sub-chronic TRVs are not readily available from Health Canada and other regulatory agencies. No dose averaging should be considered when developmental effects are of particular concern, which may occur at a susceptible life stage and during a short-term exposure period.

Typically, less than chronic exposures are assessed for COPCs with non-carcinogenic (i.e., threshold) effects by initially comparing an unadjusted daily exposure to the chronic TRV (i.e., exposures are expressed with an exposure term of 1).

As a conservative evaluation, an exposure term of 1 was assumed for all receptors and exposure pathways in terms of the days exposed per year and the total years exposed per lifetime. Recreational swimming by the cabin resident was assumed to occur for only 2 hours per day, as incidental surface water ingestion rates are reported in mg/L/day.

6.0 BIOAVAILABILITY

Relative absorption factors (RAFs) represent the fraction of the contaminant that is absorbed relative to the fraction absorbed in the study used to derive the TRV. The dermal RAFs used in the HHRA were based on Health Canada (2021) and are presented in Table 1-15 (Attachment F1). A RAF of 1 was considered for the oral and inhalation pathways as per Health Canada guidance.

7.0 CHEMICAL SPECIATION

7.1 Mercury

The toxicity of mercury differs vastly based on speciation and mercury is present in the environment as organic or inorganic forms. The most common form of organic mercury is methylmercury. The rate of mercury speciation in environmental media was determined after an exhaustive literature review.

The proportion of methylmercury found in soil, sediment and terrestrial plants was minimal. US EPA (1997) found that the fraction of methylmercury to total mercury ranges from 0.5 to 1.5% in soils from Washington state. Mailman and Bodaly (2005) reported a methylmercury content of 1.9% in Labrador tea and 3.6% in wild blueberry plants collected in northwestern Ontario. In surface water, Health Canada (1986) suggests that methylmercury is estimated to constitute only 1% of the total mercury content of water. However, CCME (2003) states that methylmercury typically represents up to 10% of total mercury in surface waters. The more conservative CCME (2003) value was selected in the HHRA model.

Methylmercury in fish tissue is often assumed to be nearly 100% of total mercury (Health Canada 2007). However recent studies by Foster and Mathieu (2023) found that the proportion of methylmercury in freshwater fish, sampled in Washington State, was 66 ±16%. Moreover, a study by Canuel et al. (2006) used an assumption that 85% of mercury in fish was methylmercury. The proportion presented in Canuel et al. (2006) was selected as a conservative estimate.

An assessment conducted as part of the Northern Contaminants Program (AANDC 2012) on mercury in the Canadian Arctic terrestrial environment reported that the fraction of methylmercury to total mercury in caribou muscle and moose muscle are approximately 75% and 90%, respectively.

A summary of mercury speciation assumptions used in the HHRA can be found in Table 8. The chemical speciation assumptions for organic mercury are also provided in Table 1-8 (Attachment F1) of the model.

Table 8: Organic Mercury Speciation

Media	Organic Mercury (% of Total Mercury)	Reference
Soil	1.5%	US EPA 1997
Surface Water	10%	CCME 2003
Berries	3.6%	Mailman and Bodaly 2005
Traditional Plants	1.9%	Mailman and Bodaly 2005
Above-Ground Produce	1.9%	Assumed same as traditional plants
Below-Ground Produce	1.9%	Assumed same as traditional plants
Moose	90%	AANDC 2012
Grouse	75 %	AANDC 2012; assumed same as caribou muscle
Mallard	75 %	AANDC 2012; assumed same as caribou muscle
Hare	75 %	AANDC 2012; assumed same as caribou muscle
Fish	85%	Canuel et al. 2006

7.2 Arsenic

Arsenic speciation in the environment is critical when projecting human exposures and health risks. Environmental arsenic exists in two forms (i.e., inorganic and organic) that have a large determination on toxicity. Inorganic arsenic is much more toxic to humans than organic forms. In estimating the average daily intake of inorganic arsenic for Canadians, Health Canada (1995) assumed that 37% of arsenic in food is in the inorganic form. More recently, Health Canada (2006) recommended that 25% of arsenic in food can be considered inorganic and 75% organic. The Agency for Toxic Substances and Disease Registry (ASTRD 2016) noted that the consensus in the literature is that 10% or less of total arsenic in food is in the inorganic form.

Schoof et al. (1999) conducted a market basket survey of inorganic arsenic in food and determined that supermarket foods provide varying amounts of inorganic arsenic. At least two recent studies have used the results of Schoof et al. (1999) together with more comprehensive total diet study data for total arsenic to estimate typical background intakes of inorganic arsenic for Canadians and Americans (Yost et al. 2004; Tsuji et al. 2007). The

proportion of inorganic arsenic was very low in meat, poultry and fish (< 1%) but was relatively high in fruit, vegetables and grains. Inorganic arsenic was not detected in skim or whole milk.

For the purposes of the HHRA, the results of the market basket study by Schoof et al. (1999) were used to estimate the inorganic arsenic content in vegetables, fruit, meat, and fish. When sufficient data was available, a 95 UCLM or a maximum of the data presented in the Schoof et al. 1999 study was used as the chemical speciation proportion. Arsenic speciation data from Tanamal et al. (2020) was used for fish. This is because Tanamal et al. (2020) uses wild caught lake species that are more similar to those found in the LSA than those used in Schoof et al. (1999).

A summary of inorganic arsenic speciation assumptions used in the HHRA can be found in Table 9. The chemical speciation assumptions for inorganic arsenic are also provided in Table 1-9 (Attachment F1) of the model.

Table 9: Inorganic Arsenic Speciation

Food Type	Inorganic Arsenic (% of Total Arsenic)	Reference
Water and Soil	100%	Assumed
Above-Ground Produce	94%	Schoof et al. 1999 95UCLM (ProUCL) of data provided for above-ground plants
Below-Ground Produce	53%	Schoof et al. 1999 Maximum value provided for below-ground plants (n=3; carrots, onions, and potatoes)
Berries	57%	Schoof et al. 1999 95UCLM (ProUCL) of data provided for berries
Traditional Plants	100%	Schoof et al. 1999 Based on data for lettuce and spinach
Wild Game Meat	5.4%	Schoof et al. 1999 95UCLM (ProUCL) of data provided for meats
Fish	8.5%	Tanamal et al. 2020 95UCLM of data based on 180 fish samples including lake whitefish, northern pike and burbot

Notes: 95% upper confidence level of the mean, calculated using US EPA ProUCL software.

8.0 HUMAN EXPOSURE ESTIMATES

Human exposure from all relevant pathways was evaluated in a multi-pathway evaluation that considered the ingestion of dietary items, ingestion of soil and surface water, and dermal contact with soil and surface water. The estimated daily intake (EDI; mg/day) was calculated based on receptor-specific parameters such as ingestion rates, dietary preferences, the amount of time a person spends at a location, and the concentration of COPCs in the environmental media (e.g., surface water, soil, vegetation, fish and wild game).

Further details on the derivation of human exposure estimates are provided below, along with sample calculations for arsenic for the toddler life stage of the Permanent Cabin Resident based on the Base+Operations Case (referred to as Project in the model). Human health exposure estimates expressed as daily intakes are provided in Table 1-2 (Attachment F1). EPCs and receptor characteristics for estimating human exposures is provided in Table 1-1 and Table 1-13.

8.1 Soil Contact

Potential exposure from direct contact with soil was determined from the sum of incidental ingestion, dermal contact and dust inhalation pathways as outlined below.

8.1.1 Soil Ingestion

Potential soil ingestion exposures were estimated by incidental soil ingestion rates and soil concentrations. Humans were assumed to be directly exposed to surface soil (0.02 m depth). The following equation was used based on Health Canada (2023).

$$EDI_{soil-ing} = C_S \times IR_S \times RAF_{oral} \times CA$$

Where:

$EDI_{soil-ing}$ = Estimated daily intake of COPC from soil ingestion (mg/day)[6]
C_S = COPC concentration in soil (mg/kg)
IR_S = Soil ingestion rate (kg/day)
RAF_{Oral} = Relative absorption factor from the gastrointestinal tract (unitless; assumed to be 1)
CA = Chemical apportionment (unitless, applicable to arsenic and mercury)

Example 8-1: Arsenic Exposure via Soil Ingestion to a Permanent Cabin Resident Toddler

$$EDI_{soil-ing} = 1.60\ mg/kg \times\ 8.0E^{-5}\ kg/day \times 1 \times 1$$

$$EDI_{soil-ing} = 1.28 \times 10^{-4} mg/day$$

8.1.2 Soil Dermal Contact

Potential soil dermal exposures were estimated by soil loading rates to exposed skin, skin surface areas, dermal absorption factors and soil concentrations. Dermal exposures were estimated separately for hands only and for surfaces other than hands (arms and legs). Humans were assumed to be directly exposed to surface soil (0.02 m depth) and Table 2-15 presents the dermal relative absorption factors (RAFs) that were used to calculate dermal exposure. The following equation was used based on Health Canada (2023).

$$EDI_{soil-dem} = C_s \times [(SA_H \times SL_H) + (\{SA_L + SA_A\} \times SL_O)] \times RAF_{derm} \times nEv \times CA$$

Where:

$EDI_{soil-derm}$ = Estimated daily intake from dermal contact with COPC in soil (mg/day)
C_S = COPC concentration in soil (mg/kg)
SA_H = Surface area of hands exposed for dermal contact (cm^2)
SL_H = Soil loading rate to exposed hands and forearms (kg/cm^2/event)
SA_L = Surface area of lower legs exposed for dermal contact (i.e., other than hands) (cm^2)
SA_A = Surface area of forearms exposed for dermal contact (cm^2)
SL_O = Soil loading rate to exposed skin (other than hands, i.e., lower legs and/or feet) (kg/m^2/event)
RAF_{derm} = Relative absorption factor via dermal contact (unitless, COPC-specific)
nEv = Number of dermal exposure events (event/day; assumed to be 1)
CA = Chemical apportionment (unitless, applicable to arsenic and mercury)

[6] In the HHRA model human exposure from soil ingestion is represented by SIR

Example 8-2: Arsenic Exposure via Soil Dermal Contact to a Permanent Cabin Resident Toddler

$$EDI_{soil-dem} = = 1.60 mg/kg \times [(430 cm^2 \times 1E^{-7} kg/cm^2/event) + (\{1690 cm^2 + 890 cm^2\} \times 1E^{-8} g/cm^2/even)] \times 0.03 \times 1\ event/day \times 1$$

$$EDI_{soil-dem} = = 3.31 \times 10^{-6}\ mg/day$$

8.1.3 Dust Inhalation

Potential dust inhalation exposures were estimated by the predicted dust concentrations in air (See section 2.2) and inhalation rates. Particulate concentrations are published in Health Canada (2024). Humans were assumed to be directly exposed to surface soil (0.02 m depth). The following equation was used based on Health Canada (2023).

$$EDI_{dust} = C_{dust} \times IR_A \times RAF_{inh} \times CA$$

Where:

EDI_{dust} = Estimated daily intake from inhalation of COPC on airborne particles (mg/day)
C_{dust} = COPC concentration in dust (mg/ m^3)
IR_A = Receptor inhalation rate (m^3/day)
RAF_{inh} = Relative absorption factor via inhalation (unitless; assumed to be 1)
CA= = Chemical apportionment (unitless, applicable to arsenic and mercury)

Example 8-3: Arsenic Exposure via Dust Inhalation to a Permanent Cabin Resident Toddler

$$EDI_{dust} = 1.60\ mg/kg \times 7.6E^{-10}\ kg/m^3 \times 8.3\ m^3/day \times 1 \times 1$$

$$EDI_{dust} = 1.01 \times 10^{-8}\ mg/day$$

8.1.4 Total Daily Intake from Soil Contact

$$EDI_{soil} = EDI_{soil-ing} + EDI_{soil-derm} + EDI_{dust}$$

Where:

EDI_{soil} = Exposure daily intake from all soil contact pathways
$EDI_{soil-ing}$ = Exposure daily intake from incidental soil ingestion
$EDI_{soil-derm}$ = Exposure daily intake from soil dermal contact
EDI_{dust} = Exposure daily intake from dust inhalation

Example 8-4: Total Arsenic Daily Intake via Soil Contact

$$EDI_{soil} = 1.28 \times 10^{-4} mg/day + 3.31 \times 10^{-6}\ mg/day + 1.01 \times 10^{-8}\ mg/day$$

$$EDI_{soil} = 1.32 \times 10^{-4}\ mg/day$$

8.2 Surface Water Contact

Potential exposure from direct contact with surface water was determined from the sum of exposure through drinking water and swimming as outlined below.

8.2.1 Drinking Water Ingestion

Potential exposures from drinking water ingestion were estimated by drinking water ingestion rates and surface water concentrations. The following equation was used based on Health Canada (2023).

$$EDI_{DW} = C_W \times IR_W \times RAF_{oral} \times CA$$

Where:

EDI_{DW} = Estimated daily intake from drinking water ingestion of COPCs in surface water (mg/day)[7]
C_W = COPC concentration in surface water (mg/L)
IR_W = Water ingestion rate (L/day)
RAF_{Oral} = Relative absorption factor from the gastrointestinal tract (unitless, assumed to be 1)
CA = Chemical apportionment (unitless, applicable to arsenic and mercury)

Example 8-5: Arsenic Exposure via Ingestion of Drinking Water to a Permanent Cabin Resident Toddler

$$EDI_{DW} = 0.000456\ mg/L \times 0.6\ L/day \times 1 \times 1$$

$$EDI_{DW} = 2.73 \times 10^{-4}\ mg/day$$

8.2.2 Swimming

Potential exposure from direct contact with surface water while swimming was determined from the sum of incidental ingestion and dermal contact as outlined below.

8.2.2.1 Incidental Ingestion

Potential exposures from incidental water ingestion from swimming were estimated by incidental water ingestion rates, surface water concentrations and the number of hours spent swimming per day. The following equation was used based on Health Canada (2023).

$$EDI_{swim-ing} = C_W \times IR_W \times RAF_{oral} \times CA \times ED$$

Where:

$EDI_{swim-ing}$ = Estimated daily intake from ingestion of COPC in surface water (mg/day)
C_W = COPC concentration in surface water (mg/L)
IR_W = Incidental water ingestion rate (L/hour)
RAF_{Oral} = Relative absorption factor from the gastrointestinal tract (unitless; assumed to be 1)
CA = Chemical apportionment (unitless, applicable to arsenic and mercury)
ED = Exposure duration (hours/day)

Example 8-6: Arsenic Exposure via Ingestion of Water to a Permanent Cabin Resident Toddler

$$EDI_{swim-ing} = 0.000456\ mg/L \times 0.044\ L/hour \times 1 \times 1 \times 2\ hours$$

$$EDI_{swim-ing} = 4.01 \times 10^{-5}\ mg/day$$

[7] In the HHRA model human exposure from drinking water is represented by WIR

8.2.2.2 Dermal Contact

Potential dermal exposures with water were estimated by dermal absorption rates, skin surface areas and surface water concentrations. The following equation was used to estimate dermal exposure from swimming based on US EPA (2004).

$$EDI_{swim-derm} = C_w \times CF\ x\ DA \times SA \times ED \times EF \times CA$$

Where:

$EDI_{swim-derm}$ = Estimated daily intake from dermal contact with COPC in surface water (mg/day)
C_w = COPC concentration in surface water (mg/L)
CF = Conversion factor of 0.001 L/cm^3
DA = Dermal absorption rate of COPC (cm/h; see Table 1-16 – Attachment F1)
SA = Skin surface area for dermal contact (cm^2)
ED = Exposure duration (hours/day)
EF = Exposure Frequency (unitless; assumed to be 1)
CA = Chemical apportionment (unitless, applicable to arsenic and mercury)

Example 8-8: Arsenic Exposure via Dermal Contact with Water to a Permanent Cabin Resident Toddler

$$EDI_{swim-derm} = 0.000456\ mg/L \times 0.001\ L/cm^3 \times 0.001\ cm/h \times 6130\ cm^2 \times 2\ h/day \times 1 \times 1$$

$$EDI_{swim-derm} = 5.59 \times 10^{-6}\ mg/day$$

8.2.2.3 Total Swimming Exposure

$$EDI_{swim} = EDI_{swim-ing} + EDI_{swim-derm}$$

Where:

EDI_{swim} = Estimated daily intake of COPC in surface water via swimming (mg/day)
$EDI_{swim-ing}$ = Estimated daily intake from ingestion of COPC in surface water (mg/day)
$EDI_{swim-derm}$ = Estimated daily intake from dermal contact with COPC in surface water (mg/day)

Example 8-9: Total Arsenic Exposure via Swimming to a Permanent Cabin Resident Toddler

$$EDI_{swim} = 4.01 \times 10^{-5}\ mg/day + 5.59 \times 10^{-6}\ mg/day$$

$$EDI_{swim} = 4.57 \times 10^{-5}$$

8.2.3 Total Daily Intake from Surface Water Contact

$$EDI_{water} = EDI_{dw} + EDI_{swim}$$

Where:

EDI_{water} = Estimated daily intake of COPC in surface water from all pathways (mg/day)
EDI_{dw} = Estimated daily intake from ingestion of COPC in surface water (mg/day)
EDI_{swim} = Estimated daily intake of COPC in surface water via swimming (mg/day)

Example 8-10: Total Arsenic Daily Intake via Surface Water Contact to a Permanent Cabin Resident Toddler

$$EDI_{water} = 2.37 \times 10^{-4} + 4.57 \times 10^{-5}$$

$$EDI_{water} = 3.19 \times 10^{-4}$$

8.3 Food Ingestion

Potential food ingestion exposures were estimated by ingestion rates and tissue concentrations of each food item. The following equation was used based on Health Canada (2023).

$$EDI_{food\ i} = C_{food\ i} \times IR_{food\ i} \times RAF_{oral} \times CA$$

Where:

$EDI_{food\ i}$ = Estimated daily intake from ingestion of COPC in food item *i* (mg/day)
$C_{food\ i}$ = COPC concentration in food *i* (mg/kg wet weight 'ww')
$IR_{food\ i}$ = Food *i* ingestion rate (kg ww/day)
RAF_{Oral} = Relative absorption factor from the gastrointestinal tract (i.e., unitless, assumed to be 1)
CA = Chemical apportionment (unitless, applicable to arsenic and mercury)

Sample calculations are provided below for each type of food item consumed by a Permanent Cabin Resident for the toddler life stage.

Example 8-11: Arsenic Exposure via Berry Ingestion

$$EDI_{berries} = 1.41E^{-3}mg/kg \times 3.62E^{-3}kg/day \times 1 \times 0.57$$

$$EDI_{berries} = 2.90E^{-6}mg/day$$

Example 8-12: Arsenic Exposure via Above Ground Produce Ingestion

$$EDI_{ag-plant} = 1.37E^{-3}mg/kg \times 3.35E^{-2}kg/day \times 1 \times 0.94$$

$$EDI_{ag-plant} = 4.32E^{-5}mg/day$$

Example 8-13: Arsenic Exposure via Below Ground Produce Ingestion

$$EDI_{bg-plant} = 1.63E^{-3}mg/kg \times 5.25E^{-2}kg/day \times 1 \times 0.53$$

$$EDI_{bg-plant} = 4.53E^{-5}mg/day$$

Example 8-14: Arsenic Exposure via Traditional Plant Ingestion

$$EDI_{trad-plant} = 1.61E^{-3}mg/kg \times 2.01E^{-3}kg/day \times 1 \times 1$$

$$EDI_{trad-plant} = 3.22E^{-6}mg/day$$

Example 8-15: Arsenic Exposure via Fish Ingestion (

$$EDI_{fish} = 5.19E^{-2}mg/kg \times 2.00E^{-2}kg/day \times 1 \times 0.085$$
$$EDI_{fish} = 8.83E^{-5}mg/kg$$

Example 8-16: Arsenic Exposure via Grouse Ingestion

$$EDI_{grouse} = 4.94E^{-3}mg/kg \times 6.62E^{-3}kg/day \times 1 \times 0.054$$
$$EDI_{grouse} = 1.77E^{-6}mg/day$$

Example 8-17: Arsenic Exposure via Mallard Ingestion

$$EDI_{mallard} = 1.54E^{-1}mg/kg \times 6.62E^{-3}kg/day \times 1 \times 0.054$$
$$EDI_{mallard} = 5.51E^{-5}mg/day$$

Example 8-18: Arsenic Exposure via Hare Ingestion

$$EDI_{hare} = 5.60E^{-3}mg/kg \times 6.49E^{-3}kg/day \times 1 \times 0.054$$
$$EDI_{hare} = 1.96E^{-6}mg/day$$

Example 8-19: Arsenic Exposure via Moose Ingestion

$$EDI_{moose} = 4.28E^{-3}mg/kg \times 3.02E^{-2}kg/day \times 1 \times 0.054$$
$$EDI_{moose} = 7.03E^{-6}mg/day$$

Example 8-20: Total Arsenic Daily Intake from Food Ingestion

$$EDI_{food} = 2.90E^{-6}mg/day + 4.32E^{-5}mg/day + 4.53E^{-5}mg/day + 3.22E^{-6}mg/day + 8.83E^{-5}mg/kg + 1.77E^{-6}mg/day + 5.51E^{-5}mg/day + 1.96E^{-6}mg/day + 7.03E^{-6}mg/day$$
$$EDI_{food} = 2.49E^{-4}mg/day$$

8.4 Total Human Daily Intake

Total daily intake was calculated by summing the exposures from each media (i.e., soil, water, food).

$$EDI_{total} = EDI_{soil} + EDI_{water} + EDI_{food}$$

Where:

EDI_{total} = Total estimated daily intake of COPC for all media (mg/day)
EDI_{soil} = Estimated daily intake from soil contact (mg/day) (see Section 8.1)
EDI_{water} = Estimated daily intake from surface water contact (mg/day) (see Section 8.2)
EDI_{food} = Estimated daily intake from food ingestion (mg/day) (see Section 8.3)

Example 8-21: Total Arsenic Estimated Daily Intake to a Permanent Cabin Resident Toddler

$$EDI_{total} = 1.32E^{-4}mg/day + 3.19E^{-4}mg/day + 2.49E^{-4}mg/day$$

$$EDI_{total} = 6.99E^{-4}mg/day$$

9.0 RISK CHARACTERIZATION

To characterize risk exposure must be normalized to body weight for comparison to TRVs (expressed in mg/kg BW/day). The estimated daily intake (EDI, in mg/kg) was converted to an exposure dose (in mg/kg BW/day) based on the life stage body weight (BW) as follows:

$$Dose_{total} = \frac{EDI_{total}}{BW}$$

Where:

$Dose_{total}$ = Total exposure dose
EDI_{total} = Total estimated daily intake of COPC for all media (mg/day)
BW = Body weight

Example 9-1: Total Arsenic Exposure Dose to a Permanent Cabin Resident Toddler

$$Dose_{total} = \frac{6.99E^{-4}mg/day}{16.5\ kg}$$

$$Dose_{total} = 4.24E^{-5}mg/kg/day$$

Risk estimates were the calculated depending on if health effects of the COPC is based on a threshold (non-carcinogenic) or non-threshold (carcinogenic) mode of action as discussed in detail below, along with sample calculations for arsenic for the Permanent Cabin Resident

Human health exposure doses and risk estimates are provided in Table 1-4 (Attachment F1). TRVs are provided in Table 1-14.

9.1 Threshold (Non-Carcinogenic) COPC

Hazard quotients for threshold COPC were calculated by dividing the exposure dose by the reference dose (i.e., RfD or tolerable daily intake) as follows:

$$HQ = \frac{Dose}{RfD}$$

Where:

HQ = Hazard quotient (unitless)
Dose = Estimated dose (mg/kg-bw/day)
RfD = Reference dose (mg/kg-bw/day)

Example 9-2: Total Arsenic Hazard Quotient to a Permanent Cabin Resident Toddler[8]

$$HQ = \frac{4.29E^{-5} mg/kg/day}{6.00 \times 10^{-5} mg/kg/day}$$

$$HQ = 0.71$$

9.2 Non-threshold (Carcinogenic) COPC

The lifetime cancer risk (LCR) and incremental lifetime cancer risk (ILCR) were calculated as recommended by Health Canada (2024). Calculated LCR values in the HHRA are specifically related to chemical exposures from existing environmental conditions (i.e., Base Case) where the ILCR values are related to incremental chemical exposures because of the Project (i.e., Project Alone Case)[9].

ILCR values were compared to an acceptable threshold of 1 in 100,000 (Health Canada 2024). There are no acceptable benchmark levels for LCR available from regulatory agencies and based on cancer incidence data from 1997 to 2020 obtained from the Canadian Cancer Registry (Statistics Canada 2023) the following LCR risks are reported in the Canadian population:

- Lifetime probability of developing (LPdev) cancer for all causes was 44.3% (i.e., 0.443 risk); and
- Lifetime probability of mortality (LPdying) from cancer was 22.5% (i.e., 0.225 risk) in Canada.

The lifetime adjustment factor (LAF) is an adjustment coefficient to relate the exposure concentrations to the number of years considered to be a part of that life stage. It is calculated with the following equation:

$$LAF_i = \frac{t_i}{t_{total}}$$

Where:

LAF_i = Lifetime adjustment factor for lifestage *i* (unitless)
T_i = Length of time of lifestage *i* (years)
T_{total} = Total life expectancy (years)

Example 9-3: Lifetime Adjustment Factor for a Toddler

$$LAF_{toddler} = \frac{4.5\ years}{80\ years}$$

$$LAF_{toddler} = 5.63E^{-2}$$

Cancer risks in toxicological studies are typically reported as an oral slope factor (SF). The SF and LAFs were used in the following equation in the HHRA to calculate a total ILCR across all life stages from infant to adult (representing a composite receptor):

[8] Based on the Base + Operations Case (referred to as Project in the model).

[9] In the HHRA model the Project Alone Case used to derive ILCRs are represented by the following terms:
Project-Base = Incremental Concentrations from Operations alone
Closure-Base = Incremental Concentrations from Closure alone
Post Closure-Base = Incremental Concentrations from Post Closure alone

$$ILCR = \sum Dose_{total\ i} \times LAF_i \times ADAF_i \times SF$$

Where:

ILCR = Incremental lifetime cancer risk (unitless) for all life stages related to incremental chemical exposures because of the Project (i.e., Project Alone Case)
$Dose_{total\ i}$ = Total dose for life stage *i* (mg/kg BW/day)
LAF_i =Lifetime adjustment factor for life stage *i* (unitless)
SF =Cancer risk slope factor $(mg/kg\ BW/day)^{-1}$
$ADAF_i$ =Age-dependant adjustment factor for carcinogens and life stage *i* (unitless)

ADAF (Health Canada 2024) are applied to non-threshold carcinogens COPCs that act though a mutagenic mode of action. For this HHRA, none of the carcinogenic COPC (i.e., arsenic) are assumed to be mutagenic, so the ADAFs were set as 1 for each life stage.

Example 9-4: ILCR for Arsenic for a Permanent Cabin Resident (Toddler Life Stage) in the Project Alone Case for Operations (referred to as 'Project' in the model)

$$ILCR = 4.29E^{-5} mg/kg/day \times 5.63E^{-2} \times 1 \times 1.8\ mg/kg/day^{-1}$$

$$ILCR = 4.29E^{-6}$$

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ATTACHMENT F1

Human Health Exposure and Risk Model

ATTACHMENT F1: HUMAN HEALTH EXPOSURE AND RISK MODEL

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In the HHRA model the assessment cases are represented by the following terms:

Base = Base Case
Project = Base Case + Incremental Concentrations from Operations
Closure = Base Case + Incremental Concentrations from Closure
Post Closure = Base Case + Incremental Concentrations from Post Closure
Project-Base = Incremental Concentrations from Operations alone
Closure-Base = Incremental Concentrations from Closure alone
Post Closure-Base = Incremental Concentrations from Post Closure alone

In the HHRA model the receptors are represented by the following terms:

COMM = Commercial User
URBN = Urban Resident
RESI = Permanent Cabin Resident
RECR = Seasonal Cabin Resident

Abbreviations:

BW= Body weight
COPC= Constiuent of potential concern
DW = Dry weight
ED= Exposure duration
EF= Exposure frequency
EPC= Exposure point concentration
HQ= Hazard quotient
ILCR= Incremental lifetime cancer risk
LAF= Lifetime adjustment factor
LCR= Lifetime cancer risk
NA= Not applicable or not available
RfD= Refernce dose
RsD= Cancer slope factor
SAH= Surface area, hands
SAO= Surface area, other
SIR= Soil ingestion rate
SLH= Skin loading, hands
SLO= Skin loading, other
WIR= Water ingestion rate
WW= Wet weight

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
RESI	Base	Arsenic	0.00E+00	1.56E+00	0.00E+00	1.56E+00	1.56E+00	0.00E+00	1.56E+00	1.19E-09	2.54E-04	1.28E-03	0.00E+00	1.28E-03	1.28E-03	0.00E+00	1.28E-03	1.62E-03	1.28E-03	0.00E+00	1.28E-03	2.90E-02	4.00E-03	8.00E-02	4.00E-03	3.00E-03
RESI	Base	Barium	0.00E+00	7.92E+01	0.00E+00	7.92E+01	7.92E+01	0.00E+00	7.92E+01	6.02E-08	1.04E-02	3.32E-01	0.00E+00	3.32E-01	3.32E-01	0.00E+00	3.32E-01	1.54E-01	3.32E-01	0.00E+00	3.32E-01	3.00E-01	2.12E-04	2.49E-04	3.13E-04	2.44E-02
RESI	Base	Beryllium	0.00E+00	2.90E-01	0.00E+00	2.90E-01	2.90E-01	0.00E+00	2.90E-01	2.20E-10	1.12E-04	9.73E-05	0.00E+00	9.73E-05	9.73E-05	0.00E+00	9.73E-05	5.66E-05	9.73E-05	0.00E+00	9.73E-05	6.94E-03	8.73E-06	4.17E-06	1.98E-05	1.62E-03
RESI	Base	Chromium	0.00E+00	5.10E+01	0.00E+00	5.10E+01	5.10E+01	0.00E+00	5.10E+01	3.87E-08	1.36E-03	3.23E-02	0.00E+00	3.23E-02	3.23E-02	0.00E+00	3.23E-02	2.98E-02	3.23E-02	0.00E+00	3.23E-02	2.58E-02	1.10E-01	6.00E-02	1.30E-01	7.00E-02
RESI	Base	Cobalt	0.00E+00	6.57E+00	0.00E+00	6.57E+00	6.57E+00	0.00E+00	6.57E+00	5.00E-09	1.56E-04	1.10E-02	0.00E+00	1.10E-02	1.71E-02	0.00E+00	1.71E-02	5.98E-03	1.10E-02	0.00E+00	1.10E-02	5.00E-03	3.18E-03	4.67E-02	1.28E-02	1.08E-02
RESI	Base	Iron	0.00E+00	5.13E+04	0.00E+00	5.13E+04	5.13E+04	0.00E+00	5.13E+04	3.90E-05	3.95E-02	2.35E+01	0.00E+00	2.35E+01	2.67E+01	0.00E+00	2.67E+01	6.66E+00	2.35E+01	0.00E+00	2.35E+01	8.00E+00	4.37E+01	9.28E+01	4.17E+01	3.48E+01
RESI	Base	Lead	0.00E+00	5.43E+00	0.00E+00	5.43E+00	5.43E+00	0.00E+00	5.43E+00	4.12E-09	2.08E-04	9.59E-03	0.00E+00	9.59E-03	9.59E-03	0.00E+00	9.59E-03	6.35E-03	9.59E-03	0.00E+00	9.59E-03	1.87E-05	1.49E-05	8.00E-02	2.00E-02	3.00E-02
RESI	Base	Manganese	0.00E+00	1.02E+03	0.00E+00	1.02E+03	1.02E+03	0.00E+00	1.02E+03	7.75E-07	1.09E-02	8.33E+01	0.00E+00	8.33E+01	3.32E+01	0.00E+00	3.32E+01	6.63E+00	8.33E+01	0.00E+00	8.33E+01	4.45E-01	1.50E+00	1.14E+00	2.84E+00	4.30E-01
RESI	Base	Mercury	0.00E+00	5.00E-02	0.00E+00	5.00E-02	5.00E-02	0.00E+00	5.00E-02	3.80E-11	3.64E-05	1.00E-02	0.00E+00	1.00E-02	5.85E-03	0.00E+00	5.85E-03	1.30E-03	1.00E-02	0.00E+00	1.00E-02	5.71E-01	2.00E-03	1.50E-01	1.00E-02	1.00E-02
RESI	Base	Molybdenum	0.00E+00	7.53E-01	0.00E+00	7.53E-01	7.53E-01	0.00E+00	7.53E-01	5.72E-10	3.89E-04	5.00E-02	0.00E+00	5.00E-02	2.45E-02	0.00E+00	2.45E-02	5.87E-03	5.00E-02	0.00E+00	5.00E-02	5.00E-02	2.00E-02	5.00E-02	2.00E-02	1.00E-02
RESI	Base	Selenium	0.00E+00	5.00E-01	0.00E+00	5.00E-01	5.00E-01	0.00E+00	5.00E-01	3.80E-10	4.71E-04	1.27E-03	0.00E+00	1.27E-03	1.27E-03	0.00E+00	1.27E-03	1.43E-03	1.27E-03	0.00E+00	1.27E-03	6.08E-02	2.50E-01	1.35E+00	2.30E-01	1.50E-01
RESI	Project	Arsenic	7.12E-02	1.56E+00	4.39E-03	1.56E+00	1.56E+00	4.39E-02	1.60E+00	1.22E-09	4.56E-04	1.29E-03	1.18E-04	1.41E-03	1.29E-03	8.45E-05	1.37E-03	1.63E-03	1.29E-03	3.19E-04	1.61E-03	5.19E-02	4.94E-03	1.54E-01	5.60E-03	4.28E-03
RESI	Project	Barium	6.06E+00	7.92E+01	3.74E-01	7.96E+01	7.92E+01	3.74E+00	8.30E+01	6.31E-08	1.34E-02	3.33E-01	1.01E-02	3.43E-01	3.33E-01	7.19E-03	3.40E-01	1.55E-01	3.33E-01	2.71E-02	3.60E-01	3.86E-01	2.43E-04	2.55E-04	4.17E-04	2.88E-02
RESI	Project	Beryllium	2.38E-02	2.90E-01	1.47E-03	2.91E-01	2.90E-01	1.47E-02	3.05E-01	2.32E-10	1.38E-04	9.78E-05	3.95E-05	1.37E-04	9.78E-05	2.82E-05	1.26E-04	5.68E-05	9.78E-05	1.07E-04	2.04E-04	8.56E-03	9.90E-06	5.91E-06	2.35E-05	1.87E-03
RESI	Project	Chromium	1.73E+00	5.10E+01	1.07E-01	5.11E+01	5.10E+01	1.07E+00	5.20E+01	3.95E-08	1.36E-03	3.24E-02	2.87E-03	3.53E-02	3.24E-02	2.05E-03	3.45E-02	2.99E-02	3.24E-02	7.74E-03	4.01E-02	2.59E-02	1.28E-01	7.24E-02	1.64E-01	8.50E-02
RESI	Project	Cobalt	2.04E-01	6.57E+00	1.26E-02	6.59E+00	6.57E+00	1.26E-01	6.70E+00	5.09E-09	1.63E-03	1.10E-02	3.40E-04	1.14E-02	1.71E-02	2.43E-04	1.74E-02	5.99E-03	1.10E-02	9.15E-04	1.19E-02	5.21E-02	3.97E-03	7.47E-02	1.71E-02	1.61E-02
RESI	Project	Iron	2.23E+03	5.13E+04	1.38E+02	5.14E+04	5.13E+04	1.38E+03	5.26E+04	4.00E-05	1.87E-01	2.35E+01	3.70E+00	2.72E+01	2.67E+01	2.64E+00	2.94E+01	6.68E+00	2.35E+01	9.97E+00	3.35E+01	3.79E+01	6.65E+01	1.38E+02	6.29E+01	5.63E+01
RESI	Project	Lead	1.85E-01	5.43E+00	1.14E-02	5.44E+00	5.43E+00	1.14E-01	5.54E+00	4.21E-09	1.84E-04	9.61E-03	3.07E-04	9.92E-03	9.61E-03	2.20E-04	9.83E-03	6.36E-03	9.61E-03	8.29E-04	1.04E-02	1.66E-05	1.65E-05	2.33E-02	2.46E-02	2.19E-02
RESI	Project	Manganese	4.90E+01	1.02E+03	3.03E+00	1.02E+03	1.02E+03	3.03E+01	1.05E+03	7.98E-07	9.76E-02	8.35E+01	8.14E-02	8.36E+01	3.32E+01	5.82E-02	3.33E+01	6.65E+00	8.35E+01	2.19E-01	8.37E+01	3.98E+00	2.09E+00	2.36E-01	4.39E+00	1.30E-01
RESI	Project	Mercury	4.88E-04	5.00E-02	3.01E-05	5.00E-02	5.00E-02	3.01E-04	5.03E-02	3.82E-11	3.43E-05	1.00E-02	8.11E-07	1.00E-02	5.85E-03	5.79E-07	5.85E-03	1.30E-03	1.00E-02	2.18E-06	1.00E-02	5.39E-01	2.01E-03	1.49E-01	1.01E-02	9.93E-03
RESI	Project	Molybdenum	2.18E-01	7.53E-01	1.35E-02	7.66E-01	7.53E-01	1.35E-01	8.88E-01	6.75E-10	2.44E-03	5.09E-02	3.63E-04	5.13E-02	2.49E-02	2.59E-04	2.52E-02	5.98E-03	5.09E-02	9.77E-04	5.19E-02	3.14E-01	5.01E-02	1.67E-01	7.39E-02	3.29E-02
RESI	Project	Selenium	2.12E-02	5.00E-01	1.31E-03	5.01E-01	5.00E-01	1.31E-02	5.13E-01	3.90E-10	9.69E-04	1.27E-03	3.52E-05	1.31E-03	1.27E-03	2.52E-05	1.30E-03	1.43E-03	1.27E-03	9.49E-05	1.37E-03	1.25E-01	2.89E-01	3.61E+00	2.85E-01	3.29E-01
RESI	Closure	Arsenic	7.12E-02	1.56E+00	4.39E-03	1.56E+00	1.56E+00	4.39E-02	1.60E+00	1.22E-09	3.55E-04	1.29E-03	1.18E-04	1.41E-03	1.29E-03	8.45E-05	1.37E-03	1.63E-03	1.29E-03	3.19E-04	1.61E-03	4.05E-02	4.94E-03	1.32E-01	5.59E-03	4.07E-03
RESI	Closure	Barium	6.06E+00	7.92E+01	3.74E-01	7.96E+01	7.92E+01	3.74E+00	8.30E+01	6.31E-08	1.33E-02	3.33E-01	1.01E-02	3.43E-01	3.33E-01	7.19E-03	3.40E-01	1.55E-01	3.33E-01	2.71E-02	3.60E-01	3.84E-01	2.43E-04	2.54E-04	4.17E-04	2.88E-02
RESI	Closure	Beryllium	2.38E-02	2.90E-01	1.47E-03	2.91E-01	2.90E-01	1.47E-02	3.05E-01	2.32E-10	1.19E-04	9.78E-05	3.95E-05	1.37E-04	9.78E-05	2.82E-05	1.26E-04	5.68E-05	9.78E-05	1.07E-04	2.04E-04	7.39E-03	9.90E-06	5.55E-06	2.35E-05	1.85E-03
RESI	Closure	Chromium	1.73E+00	5.10E+01	1.07E-01	5.11E+01	5.10E+01	1.07E+00	5.20E+01	3.95E-08	1.26E-03	3.24E-02	2.87E-03	3.53E-02	3.24E-02	2.05E-03	3.45E-02	2.99E-02	3.24E-02	7.74E-03	4.01E-02	2.39E-02	1.28E-01	6.78E-02	1.64E-01	8.22E-02
RESI	Closure	Cobalt	2.04E-01	6.57E+00	1.26E-02	6.59E+00	6.57E+00	1.26E-01	6.70E+00	5.09E-09	1.04E-03	1.10E-02	3.40E-04	1.14E-02	1.71E-02	2.43E-04	1.74E-02	5.99E-03	1.10E-02	9.15E-04	1.19E-02	3.33E-02	3.97E-03	6.82E-02	1.71E-02	1.57E-02
RESI	Closure	Iron	2.23E+03	5.13E+04	1.38E+02	5.14E+04	5.13E+04	1.38E+03	5.26E+04	4.00E-05	1.53E-01	2.35E+01	3.70E+00	2.72E+01	2.67E+01	2.64E+00	2.94E+01	6.68E+00	2.35E+01	9.97E+00	3.35E+01	3.10E+01	6.65E+01	1.28E+02	6.29E+01	5.49E+01
RESI	Closure	Lead	1.85E-01	5.43E+00	1.14E-02	5.44E+00	5.43E+00	1.14E-01	5.54E+00	4.21E-09	1.73E-04	9.61E-03	3.07E-04	9.92E-03	9.61E-03	2.20E-04	9.83E-03	6.36E-03	9.61E-03	8.29E-04	1.04E-02	1.56E-05	1.65E-05	2.22E-02	2.46E-02	2.17E-02
RESI	Closure	Manganese	4.90E+01	1.02E+03	3.03E+00	1.02E+03	1.02E+03	3.03E+01	1.05E+03	7.98E-07	7.13E-02	8.35E+01	8.14E-02	8.36E+01	3.32E+01	5.82E-02	3.33E+01	6.65E+00	8.35E+01	2.19E-01	8.37E+01	2.91E+00	2.09E+00	1.83E-01	4.39E+00	1.11E-01
RESI	Closure	Mercury	4.88E-04	5.00E-02	3.01E-05	5.00E-02	5.00E-02	3.01E-04	5.03E-02	3.82E-11	3.44E-05	1.00E-02	8.11E-07	1.00E-02	5.85E-03	5.79E-07	5.85E-03	1.30E-03	1.00E-02	2.18E-06	1.00E-02	5.40E-01	2.01E-03	1.49E-01	1.01E-02	9.94E-03
RESI	Closure	Molybdenum	2.18E-01	7.53E-01	1.35E-02	7.66E-01	7.53E-01	1.35E-01	8.88E-01	6.75E-10	1.78E-03	5.09E-02	3.63E-04	5.13E-02	2.49E-02	2.59E-04	2.52E-02	5.98E-03	5.09E-02	9.77E-04	5.19E-02	2.29E-01	5.00E-02	1.22E-01	7.38E-02	2.48E-02
RESI	Closure	Selenium	2.12E-02	5.00E-01	1.31E-03	5.01E-01	5.00E-01	1.31E-02	5.13E-01	3.90E-10	7.28E-04	1.27E-03	3.52E-05	1.31E-03	1.27E-03	2.52E-05	1.30E-03	1.43E-03	1.27E-03	9.49E-05	1.37E-03	9.39E-02	2.88E-01	2.73E+00	2.85E-01	2.62E-01
RESI	Post Closure	Arsenic	7.12E-02	1.56E+00	4.39E-03	1.56E+00	1.56E+00	4.39E-02	1.60E+00	1.22E-09	2.02E-04	1.29E-03	1.18E-04	1.41E-03	1.29E-03	8.45E-05	1.37E-03	1.63E-03	1.29E-03	3.19E-04	1.61E-03	2.30E-02	4.94E-03	1.72E-01	5.60E-03	4.46E-03
RESI	Post Closure	Barium	6.06E+00	7.92E+01	3.74E-01	7.96E+01	7.92E+01	3.74E+00	8.30E+01	6.31E-08	1.31E-02	3.33E-01	1.01E-02	3.43E-01	3.33E-01	7.19E-03	3.40E-01	1.55E-01	3.33E-01	2.71E-02	3.60E-01	3.78E-01	2.43E-04	2.53E-04	4.17E-04	2.88E-02
RESI	Post Closure	Beryllium	2.38E-02	2.90E-01	1.47E-03	2.91E-01	2.90E-01	1.47E-02	3.05E-01	2.32E-10	8.75E-05	9.78E-05	3.95E-05	1.37E-04	9.78E-05	2.82E-05	1.26E-04	5.68E-05	9.78E-05	1.07E-04	2.04E-04	5.42E-03	9.90E-06	5.43E-06	2.35E-05	1.85E-03
RESI	Post Closure	Chromium	1.73E+00	5.10E+01	1.07E-01	5.11E+01	5.10E+01	1.07E+00	5.20E+01	3.95E-08	1.07E-03	3.24E-02	2.87E-03	3.53E-02	3.24E-02	2.05E-03	3.45E-02	2.99E-02	3.24E-02	7.74E-03	4.01E-02	2.04E-02	1.28E-01	6.32E-02	1.64E-01	7.94E-02
RESI	Post Closure	Cobalt	2.04E-01	6.57E+00	1.26E-02	6.59E+00	6.57E+00	1.26E-01	6.70E+00	5.09E-09	1.33E-04	1.10E-02	3.40E-04	1.14E-02	1.71E-02	2.43E-04	1.74E-02	5.99E-03	1.10E-02	9.15E-04	1.19E-02	4.26E-03	3.97E-03	6.31E-02	1.71E-02	1.53E-02
RESI	Post Closure	Iron	2.23E+03	5.13E+04	1.38E+02	5.14E+04	5.13E+04	1.38E+03	5.26E+04	4.00E-05	1.17E-01	2.35E+01	3.70E+00	2.72E+01	2.67E+01	2.64E+00	2.94E+01	6.68E+00	2.35E+01	9.97E+00	3.35E+01	2.36E+01	6.65E+01	1.35E+02	6.29E+01	5.60E+01
RESI	Post Closure	Lead	1.85E-01	5.43E+00	1.14E-02	5.44E+00	5.43E+00	1.14E-01	5.54E+00	4.21E-09	1.40E-04	9.61E-03	3.07E-04	9.92E-03	9.61E-03	2.20E-04	9.83E-03	6.36E-03	9.61E-03	8.29E-04	1.04E-02	1.26E-05	1.65E-05	2.05E-02	2.46E-02	2.14E-02
RESI	Post Closure	Manganese	4.90E+01	1.02E+03	3.03E+00	1.02E+03	1.02E+03	3.03E+01	1.05E+03	7.98E-07	6.47E-02	8.35E+01	8.14E-02	8.36E+01	3.32E+01	5.82E-02	3.33E+01	6.65E+00	8.35E+01	2.19E-01	8.37E+01	2.64E+00	2.09E+00	1.71E-01	4.39E+00	1.07E-01
RESI	Post Closure	Mercury	4.88E-04	5.00E-02	3.01E-05	5.00E-02	5.00E-02	3.01E-04	5.03E-02	3.82E-11	3.31E-05	1.00E-02	8.11E-07	1.00E-02	5.85E-03	5.79E-07	5.85E-03	1.30E-03	1.00E-02	2.18E-06	1.00E-02	5.19E-01	2.01E-03	1.47E-01	1.01E-02	9.84E-03
RESI	Post Closure	Molybdenum	2.18E-01	7.53E-01	1.35E-02	7.66E-01	7.53E-01	1.35E-01	8.88E-01	6.75E-10	1.20E-03	5.09E-02	3.63E-04	5.13E-02	2.49E-02	2.59E-04	2.52E-02	5.98E-03	5.09E-02	9.77E-04	5.19E-02	1.55E-01	5.01E-02	1.97E-01	7.40E-02	3.85E-02
RESI	Post Closure	Selenium	2.12E-02	5.00E-01	1.31E-03	5.01E-01	5.00E-01	1.31E-02	5.13E-01	3.90E-10	3.59E-04	1.27E-03	3.52E-05	1.31E-03	1.27E-03	2.52E-05	1.30E-03	1.43E-03	1.27E-03	9.49E-05	1.37E-03	4.63E-02	2.89E-01	6.02E+00	2.86E-01	5.10E-01

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
RECR	Base	Arsenic	0.00E+00	1.56E+00	0.00E+00	1.56E+00	1.56E+00	0.00E+00	1.56E+00	1.19E-09	2.54E-04	1.28E-03	0.00E+00	1.28E-03	1.28E-03	0.00E+00	1.28E-03	1.62E-03	1.28E-03	0.00E+00	1.28E-03	2.90E-02	4.00E-03	8.00E-02	4.00E-03	3.00E-03
RECR	Base	Barium	0.00E+00	7.92E+01	0.00E+00	7.92E+01	7.92E+01	0.00E+00	7.92E+01	6.02E-08	1.04E-02	3.32E-01	0.00E+00	3.32E-01	3.32E-01	0.00E+00	3.32E-01	1.54E-01	3.32E-01	0.00E+00	3.32E-01	3.00E-01	2.12E-04	2.49E-04	3.13E-04	2.44E-02
RECR	Base	Beryllium	0.00E+00	2.90E-01	0.00E+00	2.90E-01	2.90E-01	0.00E+00	2.90E-01	2.20E-10	1.12E-04	9.73E-05	0.00E+00	9.73E-05	9.73E-05	0.00E+00	9.73E-05	5.66E-05	9.73E-05	0.00E+00	9.73E-05	6.94E-03	8.73E-06	4.17E-06	1.98E-05	1.62E-03
RECR	Base	Chromium	0.00E+00	5.10E+01	0.00E+00	5.10E+01	5.10E+01	0.00E+00	5.10E+01	3.87E-08	1.36E-03	3.23E-02	0.00E+00	3.23E-02	3.23E-02	0.00E+00	3.23E-02	2.98E-02	3.23E-02	0.00E+00	3.23E-02	2.58E-02	1.10E-01	6.00E-02	1.30E-01	7.00E-02
RECR	Base	Cobalt	0.00E+00	6.57E+00	0.00E+00	6.57E+00	6.57E+00	0.00E+00	6.57E+00	5.00E-09	1.56E-04	1.10E-02	0.00E+00	1.10E-02	1.71E-02	0.00E+00	1.71E-02	5.98E-03	1.10E-02	0.00E+00	1.10E-02	5.00E-03	3.18E-03	4.67E-02	1.28E-02	1.08E-02
RECR	Base	Iron	0.00E+00	5.13E+04	0.00E+00	5.13E+04	5.13E+04	0.00E+00	5.13E+04	3.90E-05	3.95E-02	2.35E+01	0.00E+00	2.35E+01	2.67E+01	0.00E+00	2.67E+01	6.66E+00	2.35E+01	0.00E+00	2.35E+01	8.00E+00	4.37E+01	9.28E+01	4.17E+01	3.48E+01
RECR	Base	Lead	0.00E+00	5.43E+00	0.00E+00	5.43E+00	5.43E+00	0.00E+00	5.43E+00	4.12E-09	2.08E-04	9.59E-03	0.00E+00	9.59E-03	9.59E-03	0.00E+00	9.59E-03	6.35E-03	9.59E-03	0.00E+00	9.59E-03	1.87E-05	1.49E-05	8.00E-02	2.00E-02	3.00E-02
RECR	Base	Manganese	0.00E+00	1.02E+03	0.00E+00	1.02E+03	1.02E+03	0.00E+00	1.02E+03	7.75E-07	1.09E-02	8.33E+01	0.00E+00	8.33E+01	3.32E+01	0.00E+00	3.32E+01	6.63E+00	8.33E+01	0.00E+00	8.33E+01	4.45E-01	1.50E+00	1.14E+00	2.84E+00	4.30E-01
RECR	Base	Mercury	0.00E+00	5.00E-02	0.00E+00	5.00E-02	5.00E-02	0.00E+00	5.00E-02	3.80E-11	3.64E-05	1.00E-02	0.00E+00	1.00E-02	5.85E-03	0.00E+00	5.85E-03	1.30E-03	1.00E-02	0.00E+00	1.00E-02	5.71E-01	2.00E-03	1.50E-01	1.00E-02	1.00E-02
RECR	Base	Molybdenum	0.00E+00	7.53E-01	0.00E+00	7.53E-01	7.53E-01	0.00E+00	7.53E-01	5.72E-10	3.89E-04	5.00E-02	0.00E+00	5.00E-02	2.45E-02	0.00E+00	2.45E-02	5.87E-03	5.00E-02	0.00E+00	5.00E-02	5.00E-02	2.00E-02	5.00E-02	2.00E-02	1.00E-02
RECR	Base	Selenium	0.00E+00	5.00E-01	0.00E+00	5.00E-01	5.00E-01	0.00E+00	5.00E-01	3.80E-10	4.71E-04	1.27E-03	0.00E+00	1.27E-03	1.27E-03	0.00E+00	1.27E-03	1.43E-03	1.27E-03	0.00E+00	1.27E-03	6.08E-02	2.50E-01	1.35E+00	2.30E-01	1.50E-01
RECR	Project	Arsenic	7.12E-02	1.56E+00	4.39E-03	1.56E+00	1.56E+00	4.39E-02	1.60E+00	1.22E-09	4.56E-04	1.29E-03	1.18E-04	1.41E-03	1.29E-03	8.45E-05	1.37E-03	1.63E-03	1.29E-03	3.19E-04	1.61E-03	5.19E-02	4.94E-03	1.54E-01	5.60E-03	4.28E-03
RECR	Project	Barium	6.06E+00	7.92E+01	3.74E-01	7.96E+01	7.92E+01	3.74E+00	8.30E+01	6.31E-08	1.34E-02	3.33E-01	1.01E-02	3.43E-01	3.33E-01	7.19E-03	3.40E-01	1.55E-01	3.33E-01	2.71E-02	3.60E-01	3.86E-01	2.43E-04	2.55E-04	4.17E-04	2.88E-02
RECR	Project	Beryllium	2.38E-02	2.90E-01	1.47E-03	2.91E-01	2.90E-01	1.47E-02	3.05E-01	2.32E-10	1.38E-04	9.78E-05	3.95E-05	1.37E-04	9.78E-05	2.82E-05	1.26E-04	5.68E-05	9.78E-05	1.07E-04	2.04E-04	8.56E-03	9.90E-06	5.91E-06	2.35E-05	1.87E-03
RECR	Project	Chromium	1.73E+00	5.10E+01	1.07E-01	5.11E+01	5.10E+01	1.07E+00	5.20E+01	3.95E-08	1.36E-03	3.24E-02	2.87E-03	3.53E-02	3.24E-02	2.05E-03	3.45E-02	2.99E-02	3.24E-02	7.74E-03	4.01E-02	2.59E-02	1.28E-01	7.24E-02	1.64E-01	8.50E-02
RECR	Project	Cobalt	2.04E-01	6.57E+00	1.26E-02	6.59E+00	6.57E+00	1.26E-01	6.70E+00	5.09E-09	1.63E-03	1.10E-02	3.40E-04	1.14E-02	1.71E-02	2.43E-04	1.74E-02	5.99E-03	1.10E-02	9.15E-04	1.19E-02	5.21E-02	3.97E-03	7.47E-02	1.71E-02	1.61E-02
RECR	Project	Iron	2.23E+03	5.13E+04	1.38E+02	5.14E+04	5.13E+04	1.38E+03	5.26E+04	4.00E-05	1.87E-01	2.35E+01	3.70E+00	2.72E+01	2.67E+01	2.64E+00	2.94E+01	6.68E+00	2.35E+01	9.97E+00	3.35E+01	3.79E+01	6.65E+01	1.38E+02	6.29E+01	5.63E+01
RECR	Project	Lead	1.85E-01	5.43E+00	1.14E-02	5.44E+00	5.43E+00	1.14E-01	5.54E+00	4.21E-09	1.84E-04	9.61E-03	3.07E-04	9.92E-03	9.61E-03	2.20E-04	9.83E-03	6.36E-03	9.61E-03	8.29E-04	1.04E-02	1.66E-05	1.65E-05	2.33E-02	2.46E-02	2.19E-02
RECR	Project	Manganese	4.90E+01	1.02E+03	3.03E+00	1.02E+03	1.02E+03	3.03E+01	1.05E+03	7.98E-07	9.76E-02	8.35E+01	8.14E-02	8.36E+01	3.32E+01	5.82E-02	3.33E+01	6.65E+00	8.35E+01	2.19E-01	8.37E+01	3.98E+00	2.09E+00	2.36E-01	4.39E+00	1.30E-01
RECR	Project	Mercury	4.88E-04	5.00E-02	3.01E-05	5.00E-02	5.00E-02	3.01E-04	5.03E-02	3.82E-11	3.43E-05	1.00E-02	8.11E-07	1.00E-02	5.85E-03	5.79E-07	5.85E-03	1.30E-03	1.00E-02	2.18E-06	1.00E-02	5.39E-01	2.01E-03	1.49E-01	1.01E-02	9.93E-03
RECR	Project	Molybdenum	2.18E-01	7.53E-01	1.35E-02	7.66E-01	7.53E-01	1.35E-01	8.88E-01	6.75E-10	2.44E-03	5.09E-02	3.63E-04	5.13E-02	2.49E-02	2.59E-04	2.52E-02	5.98E-03	5.09E-02	9.77E-04	5.19E-02	3.14E-01	5.01E-02	1.67E-01	7.39E-02	3.29E-02
RECR	Project	Selenium	2.12E-02	5.00E-01	1.31E-03	5.01E-01	5.00E-01	1.31E-02	5.13E-01	3.90E-10	9.69E-04	1.27E-03	3.52E-05	1.31E-03	1.27E-03	2.52E-05	1.30E-03	1.43E-03	1.27E-03	9.49E-05	1.37E-03	1.25E-01	2.89E-01	3.61E+00	2.85E-01	3.29E-01
RECR	Closure	Arsenic	7.12E-02	1.56E+00	4.39E-03	1.56E+00	1.56E+00	4.39E-02	1.60E+00	1.22E-09	3.55E-04	1.29E-03	1.18E-04	1.41E-03	1.29E-03	8.45E-05	1.37E-03	1.63E-03	1.29E-03	3.19E-04	1.61E-03	4.05E-02	4.94E-03	1.32E-01	5.59E-03	4.07E-03
RECR	Closure	Barium	6.06E+00	7.92E+01	3.74E-01	7.96E+01	7.92E+01	3.74E+00	8.30E+01	6.31E-08	1.33E-02	3.33E-01	1.01E-02	3.43E-01	3.33E-01	7.19E-03	3.40E-01	1.55E-01	3.33E-01	2.71E-02	3.60E-01	3.84E-01	2.43E-04	2.54E-04	4.17E-04	2.88E-02
RECR	Closure	Beryllium	2.38E-02	2.90E-01	1.47E-03	2.91E-01	2.90E-01	1.47E-02	3.05E-01	2.32E-10	1.19E-04	9.78E-05	3.95E-05	1.37E-04	9.78E-05	2.82E-05	1.26E-04	5.68E-05	9.78E-05	1.07E-04	2.04E-04	7.39E-03	9.90E-06	5.55E-06	2.35E-05	1.85E-03
RECR	Closure	Chromium	1.73E+00	5.10E+01	1.07E-01	5.11E+01	5.10E+01	1.07E+00	5.20E+01	3.95E-08	1.26E-03	3.24E-02	2.87E-03	3.53E-02	3.24E-02	2.05E-03	3.45E-02	2.99E-02	3.24E-02	7.74E-03	4.01E-02	2.39E-02	1.28E-01	6.78E-02	1.64E-01	8.22E-02
RECR	Closure	Cobalt	2.04E-01	6.57E+00	1.26E-02	6.59E+00	6.57E+00	1.26E-01	6.70E+00	5.09E-09	1.04E-03	1.10E-02	3.40E-04	1.14E-02	1.71E-02	2.43E-04	1.74E-02	5.99E-03	1.10E-02	9.15E-04	1.19E-02	3.33E-02	3.97E-03	6.82E-02	1.71E-02	1.57E-02
RECR	Closure	Iron	2.23E+03	5.13E+04	1.38E+02	5.14E+04	5.13E+04	1.38E+03	5.26E+04	4.00E-05	1.53E-01	2.35E+01	3.70E+00	2.72E+01	2.67E+01	2.64E+00	2.94E+01	6.68E+00	2.35E+01	9.97E+00	3.35E+01	3.10E+01	6.65E+01	1.28E+02	6.29E+01	5.49E+01
RECR	Closure	Lead	1.85E-01	5.43E+00	1.14E-02	5.44E+00	5.43E+00	1.14E-01	5.54E+00	4.21E-09	1.73E-04	9.61E-03	3.07E-04	9.92E-03	9.61E-03	2.20E-04	9.83E-03	6.36E-03	9.61E-03	8.29E-04	1.04E-02	1.56E-05	1.65E-05	2.22E-02	2.46E-02	2.17E-02
RECR	Closure	Manganese	4.90E+01	1.02E+03	3.03E+00	1.02E+03	1.02E+03	3.03E+01	1.05E+03	7.98E-07	7.13E-02	8.35E+01	8.14E-02	8.36E+01	3.32E+01	5.82E-02	3.33E+01	6.65E+00	8.35E+01	2.19E-01	8.37E+01	2.91E+00	2.09E+00	1.83E-01	4.39E+00	1.11E-01
RECR	Closure	Mercury	4.88E-04	5.00E-02	3.01E-05	5.00E-02	5.00E-02	3.01E-04	5.03E-02	3.82E-11	3.44E-05	1.00E-02	8.11E-07	1.00E-02	5.85E-03	5.79E-07	5.85E-03	1.30E-03	1.00E-02	2.18E-06	1.00E-02	5.40E-01	2.01E-03	1.49E-01	1.01E-02	9.94E-03
RECR	Closure	Molybdenum	2.18E-01	7.53E-01	1.35E-02	7.66E-01	7.53E-01	1.35E-01	8.88E-01	6.75E-10	1.78E-03	5.09E-02	3.63E-04	5.13E-02	2.49E-02	2.59E-04	2.52E-02	5.98E-03	5.09E-02	9.77E-04	5.19E-02	2.29E-01	5.00E-02	1.22E-01	7.38E-02	2.48E-02
RECR	Closure	Selenium	2.12E-02	5.00E-01	1.31E-03	5.01E-01	5.00E-01	1.31E-02	5.13E-01	3.90E-10	7.28E-04	1.27E-03	3.52E-05	1.31E-03	1.27E-03	2.52E-05	1.30E-03	1.43E-03	1.27E-03	9.49E-05	1.37E-03	9.39E-02	2.88E-01	2.73E+00	2.85E-01	2.62E-01
RECR	Post Closure	Arsenic	7.12E-02	1.56E+00	4.39E-03	1.56E+00	1.56E+00	4.39E-02	1.60E+00	1.22E-09	2.02E-04	1.29E-03	1.18E-04	1.41E-03	1.29E-03	8.45E-05	1.37E-03	1.63E-03	1.29E-03	3.19E-04	1.61E-03	2.30E-02	4.94E-03	1.72E-01	5.60E-03	4.46E-03
RECR	Post Closure	Barium	6.06E+00	7.92E+01	3.74E-01	7.96E+01	7.92E+01	3.74E+00	8.30E+01	6.31E-08	1.31E-02	3.33E-01	1.01E-02	3.43E-01	3.33E-01	7.19E-03	3.40E-01	1.55E-01	3.33E-01	2.71E-02	3.60E-01	3.78E-01	2.43E-04	2.53E-04	4.17E-04	2.88E-02
RECR	Post Closure	Beryllium	2.38E-02	2.90E-01	1.47E-03	2.91E-01	2.90E-01	1.47E-02	3.05E-01	2.32E-10	8.75E-05	9.78E-05	3.95E-05	1.37E-04	9.78E-05	2.82E-05	1.26E-04	5.68E-05	9.78E-05	1.07E-04	2.04E-04	5.42E-03	9.90E-06	5.43E-06	2.35E-05	1.85E-03
RECR	Post Closure	Chromium	1.73E+00	5.10E+01	1.07E-01	5.11E+01	5.10E+01	1.07E+00	5.20E+01	3.95E-08	1.07E-03	3.24E-02	2.87E-03	3.53E-02	3.24E-02	2.05E-03	3.45E-02	2.99E-02	3.24E-02	7.74E-03	4.01E-02	2.04E-02	1.28E-01	6.32E-02	1.64E-01	7.94E-02
RECR	Post Closure	Cobalt	2.04E-01	6.57E+00	1.26E-02	6.59E+00	6.57E+00	1.26E-01	6.70E+00	5.09E-09	1.33E-04	1.10E-02	3.40E-04	1.14E-02	1.71E-02	2.43E-04	1.74E-02	5.99E-03	1.10E-02	9.15E-04	1.19E-02	4.26E-03	3.97E-03	6.31E-02	1.71E-02	1.53E-02
RECR	Post Closure	Iron	2.23E+03	5.13E+04	1.38E+02	5.14E+04	5.13E+04	1.38E+03	5.26E+04	4.00E-05	1.17E-01	2.35E+01	3.70E+00	2.72E+01	2.67E+01	2.64E+00	2.94E+01	6.68E+00	2.35E+01	9.97E+00	3.35E+01	2.36E+01	6.65E+01	1.35E+02	6.29E+01	5.60E+01
RECR	Post Closure	Lead	1.85E-01	5.43E+00	1.14E-02	5.44E+00	5.43E+00	1.14E-01	5.54E+00	4.21E-09	1.40E-04	9.61E-03	3.07E-04	9.92E-03	9.61E-03	2.20E-04	9.83E-03	6.36E-03	9.61E-03	8.29E-04	1.04E-02	1.26E-05	1.65E-05	2.05E-02	2.46E-02	2.14E-02
RECR	Post Closure	Manganese	4.90E+01	1.02E+03	3.03E+00	1.02E+03	1.02E+03	3.03E+01	1.05E+03	7.98E-07	6.47E-02	8.35E+01	8.14E-02	8.36E+01	3.32E+01	5.82E-02	3.33E+01	6.65E+00	8.35E+01	2.19E-01	8.37E+01	2.64E+00	2.09E+00	1.71E-01	4.39E+00	1.07E-01
RECR	Post Closure	Mercury	4.88E-04	5.00E-02	3.01E-05	5.00E-02	5.00E-02	3.01E-04	5.03E-02	3.82E-11	3.31E-05	1.00E-02	8.11E-07	1.00E-02	5.85E-03	5.79E-07	5.85E-03	1.30E-03	1.00E-02	2.18E-06	1.00E-02	5.19E-01	2.01E-03	1.47E-01	1.01E-02	9.84E-03
RECR	Post Closure	Molybdenum	2.18E-01	7.53E-01	1.35E-02	7.66E-01	7.53E-01	1.35E-01	8.88E-01	6.75E-10	1.20E-03	5.09E-02	3.63E-04	5.13E-02	2.49E-02	2.59E-04	2.52E-02	5.98E-03	5.09E-02	9.77E-04	5.19E-02	1.55E-01	5.01E-02	1.97E-01	7.40E-02	3.85E-02
RECR	Post Closure	Selenium	2.12E-02	5.00E-01	1.31E-03	5.01E-01	5.00E-01	1.31E-02	5.13E-01	3.90E-10	3.59E-04	1.27E-03	3.52E-05	1.31E-03	1.27E-03	2.52E-05	1.30E-03	1.43E-03	1.27E-03	9.49E-05	1.37E-03	4.63E-02	2.89E-01	6.02E+00	2.86E-01	5.10E-01

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
COMM	Base	Arsenic	0.00E+00	1.56E+00	0.00E+00	1.56E+00	1.56E+00	0.00E+00	1.56E+00	3.90E-07	0.00E+00	1.28E-03	0.00E+00	1.28E-03	1.28E-03	0.00E+00	1.28E-03	1.62E-03	1.28E-03	0.00E+00	1.28E-03	0.00E+00	4.00E-03	8.00E-02	4.00E-03	3.00E-03
COMM	Base	Barium	0.00E+00	7.92E+01	0.00E+00	7.92E+01	7.92E+01	0.00E+00	7.92E+01	1.98E-05	0.00E+00	3.32E-01	0.00E+00	3.32E-01	3.32E-01	0.00E+00	3.32E-01	1.54E-01	3.32E-01	0.00E+00	3.32E-01	0.00E+00	2.12E-04	2.49E-04	3.13E-04	2.44E-02
COMM	Base	Beryllium	0.00E+00	2.90E-01	0.00E+00	2.90E-01	2.00E-01	0.00E+00	2.00E-01	5.00E-08	0.00E+00	9.73E-05	0.00E+00	9.73E-05	9.73E-05	0.00E+00	9.73E-05	5.66E-05	9.73E-05	0.00E+00	9.73E-05	0.00E+00	8.73E-06	4.17E-06	1.98E-05	1.62E-03
COMM	Base	Chromium	0.00E+00	5.10E+01	0.00E+00	5.10E+01	5.10E+01	0.00E+00	5.10E+01	1.27E-05	0.00E+00	3.23E-02	0.00E+00	3.23E-02	3.23E-02	0.00E+00	3.23E-02	2.98E-02	3.23E-02	0.00E+00	3.23E-02	0.00E+00	1.10E-01	6.00E-02	1.30E-01	7.00E-02
COMM	Base	Cobalt	0.00E+00	6.57E+00	0.00E+00	6.57E+00	6.57E+00	0.00E+00	6.57E+00	1.64E-06	0.00E+00	1.10E-02	0.00E+00	1.10E-02	1.71E-02	0.00E+00	1.71E-02	5.98E-03	1.10E-02	0.00E+00	1.10E-02	0.00E+00	3.18E-03	4.67E-02	1.28E-02	1.08E-02
COMM	Base	Iron	0.00E+00	5.13E+04	0.00E+00	5.13E+04	5.13E+04	0.00E+00	5.13E+04	1.28E-02	0.00E+00	2.35E+01	0.00E+00	2.35E+01	2.67E+01	0.00E+00	2.67E+01	6.66E+00	2.35E+01	0.00E+00	2.35E+01	0.00E+00	4.37E+01	9.28E+01	4.17E+01	3.48E+01
COMM	Base	Lead	0.00E+00	5.43E+00	0.00E+00	5.43E+00	5.43E+00	0.00E+00	5.43E+00	1.36E-06	0.00E+00	9.59E-03	0.00E+00	9.59E-03	9.59E-03	0.00E+00	9.59E-03	6.35E-03	9.59E-03	0.00E+00	9.59E-03	0.00E+00	1.49E-05	8.00E-02	2.00E-02	3.00E-02
COMM	Base	Manganese	0.00E+00	1.02E+03	0.00E+00	1.02E+03	1.02E+03	0.00E+00	1.02E+03	2.55E-04	0.00E+00	8.33E+01	0.00E+00	8.33E+01	3.32E+01	0.00E+00	3.32E+01	6.63E+00	8.33E+01	0.00E+00	8.33E+01	0.00E+00	1.50E+00	1.14E+00	2.84E+00	4.30E-01
COMM	Base	Mercury	0.00E+00	5.00E-02	0.00E+00	5.00E-02	5.00E-02	0.00E+00	5.00E-02	1.25E-08	0.00E+00	1.00E-02	0.00E+00	1.00E-02	5.85E-03	0.00E+00	5.85E-03	1.30E-03	1.00E-02	0.00E+00	1.00E-02	0.00E+00	2.00E-03	1.50E-01	1.00E-02	1.00E-02
COMM	Base	Molybdenum	0.00E+00	7.53E-01	0.00E+00	7.53E-01	7.53E-01	0.00E+00	7.53E-01	1.88E-07	0.00E+00	5.00E-02	0.00E+00	5.00E-02	2.45E-02	0.00E+00	2.45E-02	5.87E-03	5.00E-02	0.00E+00	5.00E-02	0.00E+00	2.00E-02	5.00E-02	2.00E-02	1.00E-02
COMM	Base	Selenium	0.00E+00	5.00E-01	0.00E+00	5.00E-01	5.00E-01	0.00E+00	5.00E-01	1.25E-07	0.00E+00	1.27E-03	0.00E+00	1.27E-03	1.27E-03	0.00E+00	1.27E-03	1.43E-03	1.27E-03	0.00E+00	1.27E-03	0.00E+00	2.50E-01	1.35E+00	2.30E-01	1.50E-01
COMM	Project	Arsenic	1.03E-02	1.56E+00	6.36E-04	1.56E+00	1.56E+00	6.36E-03	1.57E+00	3.92E-07	0.00E+00	1.28E-03	1.71E-05	1.30E-03	1.28E-03	1.22E-05	1.30E-03	1.62E-03	1.28E-03	4.61E-05	1.33E-03	0.00E+00	4.94E-03	1.54E-01	5.60E-03	4.28E-03
COMM	Project	Barium	8.77E-01	7.92E+01	5.41E-02	7.93E+01	7.92E+01	5.41E-01	7.98E+01	1.99E-05	0.00E+00	3.32E-01	1.46E-03	3.33E-01	3.32E-01	1.04E-03	3.33E-01	1.55E-01	3.32E-01	3.92E-03	3.36E-01	0.00E+00	2.43E-04	2.55E-04	4.17E-04	2.88E-02
COMM	Project	Beryllium	3.44E-03	2.90E-01	2.13E-04	2.90E-01	2.90E-01	2.13E-03	2.92E-01	7.30E-08	0.00E+00	9.73E-05	5.72E-06	1.03E-04	9.73E-05	4.09E-06	1.01E-04	5.66E-05	9.73E-05	1.54E-05	1.13E-04	0.00E+00	9.90E-06	5.91E-06	2.35E-05	1.87E-03
COMM	Project	Chromium	2.50E-01	5.10E+01	1.55E-02	5.10E+01	5.10E+01	1.55E-01	5.11E+01	1.28E-05	0.00E+00	3.23E-02	4.16E-04	3.28E-02	3.23E-02	2.97E-04	3.26E-02	2.98E-02	3.23E-02	1.12E-03	3.35E-02	0.00E+00	1.28E-01	7.24E-02	1.64E-01	8.50E-02
COMM	Project	Cobalt	2.96E-02	6.57E+00	1.83E-03	6.58E+00	6.57E+00	1.83E-02	6.59E+00	1.65E-06	0.00E+00	1.10E-02	4.91E-05	1.11E-02	1.71E-02	3.51E-05	1.71E-02	5.98E-03	1.10E-02	1.32E-04	1.11E-02	0.00E+00	3.97E-03	7.47E-02	1.71E-02	1.61E-02
COMM	Project	Iron	3.22E+02	5.13E+04	1.99E+01	5.13E+04	5.13E+04	1.99E+02	5.15E+04	1.29E-02	0.00E+00	2.35E+01	5.35E-01	2.40E+01	2.67E+01	3.82E-01	2.70E+01	6.67E+00	2.35E+01	1.44E+00	2.49E+01	0.00E+00	6.65E+01	1.38E+02	6.29E+01	5.63E+01
COMM	Project	Lead	2.68E-02	5.43E+00	1.65E-03	5.43E+00	5.43E+00	1.65E-02	5.44E+00	1.36E-06	0.00E+00	9.60E-03	4.45E-05	9.64E-03	9.60E-03	3.18E-05	9.63E-03	6.35E-03	9.60E-03	1.20E-04	9.72E-03	0.00E+00	1.65E-05	2.33E-02	2.46E-02	2.19E-02
COMM	Project	Manganese	7.09E+00	1.02E+03	4.38E-01	1.02E+03	1.02E+03	4.38E+00	1.02E+03	2.56E-04	0.00E+00	8.33E+01	1.18E-02	8.33E+01	3.32E+01	8.41E-03	3.32E+01	6.63E+00	8.33E+01	3.17E-02	8.33E+01	0.00E+00	2.09E+00	2.36E-01	4.39E+00	1.30E-01
COMM	Project	Mercury	7.06E-05	5.00E-02	4.36E-06	5.00E-02	5.00E-02	4.36E-05	5.00E-02	1.25E-08	0.00E+00	1.00E-02	1.17E-07	1.00E-02	5.85E-03	8.38E-08	5.85E-03	1.30E-03	1.00E-02	3.16E-07	1.00E-02	0.00E+00	2.01E-03	1.49E-01	1.01E-02	9.93E-03
COMM	Project	Molybdenum	3.16E-02	7.53E-01	1.95E-03	7.55E-01	7.53E-01	1.95E-02	7.73E-01	1.93E-07	0.00E+00	5.01E-02	5.25E-05	5.02E-02	2.45E-02	3.75E-05	2.46E-02	5.89E-03	5.01E-02	1.41E-04	5.03E-02	0.00E+00	5.01E-02	1.67E-01	7.39E-02	3.29E-02
COMM	Project	Selenium	3.07E-03	5.00E-01	1.89E-04	5.00E-01	5.00E-01	1.89E-03	5.02E-01	1.25E-07	0.00E+00	1.27E-03	5.09E-06	1.27E-03	1.27E-03	3.64E-06	1.27E-03	1.43E-03	1.27E-03	1.37E-05	1.28E-03	0.00E+00	2.89E-01	3.61E+00	2.85E-01	3.29E-01
COMM	Closure	Arsenic	1.03E-02	1.56E+00	6.36E-04	1.56E+00	1.56E+00	6.36E-03	1.57E+00	3.92E-07	0.00E+00	1.28E-03	1.71E-05	1.30E-03	1.28E-03	1.22E-05	1.30E-03	1.62E-03	1.28E-03	4.61E-05	1.33E-03	0.00E+00	4.94E-03	1.32E-01	5.59E-03	4.07E-03
COMM	Closure	Barium	8.77E-01	7.92E+01	5.41E-02	7.93E+01	7.92E+01	5.41E-01	7.98E+01	1.99E-05	0.00E+00	3.32E-01	1.46E-03	3.33E-01	3.32E-01	1.04E-03	3.33E-01	1.55E-01	3.32E-01	3.92E-03	3.36E-01	0.00E+00	2.43E-04	2.54E-04	4.17E-04	2.88E-02
COMM	Closure	Beryllium	3.44E-03	2.90E-01	2.13E-04	2.90E-01	2.90E-01	2.13E-03	2.92E-01	7.30E-08	0.00E+00	9.73E-05	5.72E-06	1.03E-04	9.73E-05	4.09E-06	1.01E-04	5.66E-05	9.73E-05	1.54E-05	1.13E-04	0.00E+00	9.90E-06	5.55E-06	2.35E-05	1.85E-03
COMM	Closure	Chromium	2.50E-01	5.10E+01	1.55E-02	5.10E+01	5.10E+01	1.55E-01	5.11E+01	1.28E-05	0.00E+00	3.23E-02	4.16E-04	3.28E-02	3.23E-02	2.97E-04	3.26E-02	2.98E-02	3.23E-02	1.12E-03	3.35E-02	0.00E+00	1.28E-01	6.78E-02	1.64E-01	8.22E-02
COMM	Closure	Cobalt	2.96E-02	6.57E+00	1.83E-03	6.58E+00	6.57E+00	1.83E-02	6.59E+00	1.65E-06	0.00E+00	1.10E-02	4.91E-05	1.11E-02	1.71E-02	3.51E-05	1.71E-02	5.98E-03	1.10E-02	1.32E-04	1.11E-02	0.00E+00	3.97E-03	6.82E-02	1.71E-02	1.57E-02
COMM	Closure	Iron	3.22E+02	5.13E+04	1.99E+01	5.13E+04	5.13E+04	1.99E+02	5.15E+04	1.29E-02	0.00E+00	2.35E+01	5.35E-01	2.40E+01	2.67E+01	3.82E-01	2.70E+01	6.67E+00	2.35E+01	1.44E+00	2.49E+01	0.00E+00	6.65E+01	1.28E+02	6.29E+01	5.49E+01
COMM	Closure	Lead	2.68E-02	5.43E+00	1.65E-03	5.43E+00	5.43E+00	1.65E-02	5.44E+00	1.36E-06	0.00E+00	9.60E-03	4.45E-05	9.64E-03	9.60E-03	3.18E-05	9.63E-03	6.35E-03	9.60E-03	1.20E-04	9.72E-03	0.00E+00	1.65E-05	2.22E-02	2.46E-02	2.17E-02
COMM	Closure	Manganese	7.09E+00	1.02E+03	4.38E-01	1.02E+03	1.02E+03	4.38E+00	1.02E+03	2.56E-04	0.00E+00	8.33E+01	1.18E-02	8.33E+01	3.32E+01	8.41E-03	3.32E+01	6.63E+00	8.33E+01	3.17E-02	8.33E+01	0.00E+00	2.09E+00	1.83E-01	4.39E+00	1.11E-01
COMM	Closure	Mercury	7.06E-05	5.00E-02	4.36E-06	5.00E-02	5.00E-02	4.36E-05	5.00E-02	1.25E-08	0.00E+00	1.00E-02	1.17E-07	1.00E-02	5.85E-03	8.38E-08	5.85E-03	1.30E-03	1.00E-02	3.16E-07	1.00E-02	0.00E+00	2.01E-03	1.49E-01	1.01E-02	9.94E-03
COMM	Closure	Molybdenum	3.16E-02	7.53E-01	1.95E-03	7.55E-01	7.53E-01	1.95E-02	7.73E-01	1.93E-07	0.00E+00	5.01E-02	5.25E-05	5.02E-02	2.45E-02	3.75E-05	2.46E-02	5.89E-03	5.01E-02	1.41E-04	5.03E-02	0.00E+00	5.00E-02	1.22E-01	7.38E-02	2.48E-02
COMM	Closure	Selenium	3.07E-03	5.00E-01	1.89E-04	5.00E-01	5.00E-01	1.89E-03	5.02E-01	1.25E-07	0.00E+00	1.27E-03	5.09E-06	1.27E-03	1.27E-03	3.64E-06	1.27E-03	1.43E-03	1.27E-03	1.37E-05	1.28E-03	0.00E+00	2.88E-01	2.73E+00	2.85E-01	2.62E-01
COMM	Post Closure	Arsenic	1.03E-02	1.56E+00	6.36E-04	1.56E+00	1.56E+00	6.36E-03	1.57E+00	3.92E-07	0.00E+00	1.28E-03	1.71E-05	1.30E-03	1.28E-03	1.22E-05	1.30E-03	1.62E-03	1.28E-03	4.61E-05	1.33E-03	0.00E+00	4.94E-03	1.72E-01	5.60E-03	4.46E-03
COMM	Post Closure	Barium	8.77E-01	7.92E+01	5.41E-02	7.93E+01	7.92E+01	5.41E-01	7.98E+01	1.99E-05	0.00E+00	3.32E-01	1.46E-03	3.33E-01	3.32E-01	1.04E-03	3.33E-01	1.55E-01	3.32E-01	3.92E-03	3.36E-01	0.00E+00	2.43E-04	2.53E-04	4.17E-04	2.88E-02
COMM	Post Closure	Beryllium	3.44E-03	2.90E-01	2.13E-04	2.90E-01	2.90E-01	2.13E-03	2.92E-01	7.30E-08	0.00E+00	9.73E-05	5.72E-06	1.03E-04	9.73E-05	4.09E-06	1.01E-04	5.66E-05	9.73E-05	1.54E-05	1.13E-04	0.00E+00	9.90E-06	5.43E-06	2.35E-05	1.85E-03
COMM	Post Closure	Chromium	2.50E-01	5.10E+01	1.55E-02	5.10E+01	5.10E+01	1.55E-01	5.11E+01	1.28E-05	0.00E+00	3.23E-02	4.16E-04	3.28E-02	3.23E-02	2.97E-04	3.26E-02	2.98E-02	3.23E-02	1.12E-03	3.35E-02	0.00E+00	1.28E-01	6.32E-02	1.64E-01	7.94E-02
COMM	Post Closure	Cobalt	2.96E-02	6.57E+00	1.83E-03	6.58E+00	6.57E+00	1.83E-02	6.59E+00	1.65E-06	0.00E+00	1.10E-02	4.91E-05	1.11E-02	1.71E-02	3.51E-05	1.71E-02	5.98E-03	1.10E-02	1.32E-04	1.11E-02	0.00E+00	3.97E-03	6.31E-02	1.71E-02	1.53E-02
COMM	Post Closure	Iron	3.22E+02	5.13E+04	1.99E+01	5.13E+04	5.13E+04	1.99E+02	5.15E+04	1.29E-02	0.00E+00	2.35E+01	5.35E-01	2.40E+01	2.67E+01	3.82E-01	2.70E+01	6.67E+00	2.35E+01	1.44E+00	2.49E+01	0.00E+00	6.65E+01	1.35E+02	6.29E+01	5.60E+01
COMM	Post Closure	Lead	2.68E-02	5.43E+00	1.65E-03	5.43E+00	5.43E+00	1.65E-02	5.44E+00	1.36E-06	0.00E+00	9.60E-03	4.45E-05	9.64E-03	9.60E-03	3.18E-05	9.63E-03	6.35E-03	9.60E-03	1.20E-04	9.72E-03	0.00E+00	1.65E-05	2.05E-02	2.46E-02	2.14E-02
COMM	Post Closure	Manganese	7.09E+00	1.02E+03	4.38E-01	1.02E+03	1.02E+03	4.38E+00	1.02E+03	2.56E-04	0.00E+00	8.33E+01	1.18E-02	8.33E+01	3.32E+01	8.41E-03	3.32E+01	6.63E+00	8.33E+01	3.17E-02	8.33E+01	0.00E+00	2.09E+00	1.71E-01	4.39E+00	1.07E-01
COMM	Post Closure	Mercury	7.06E-05	5.00E-02	4.36E-06	5.00E-02	5.00E-02	4.36E-05	5.00E-02	1.25E-08	0.00E+00	1.00E-02	1.17E-07	1.00E-02	5.85E-03	8.38E-08	5.85E-03	1.30E-03	1.00E-02	3.16E-07	1.00E-02	0.00E+00	2.01E-03	1.47E-01	1.01E-02	9.84E-03
COMM	Post Closure	Molybdenum	3.16E-02	7.53E-01	1.95E-03	7.55E-01	7.53E-01	1.95E-02	7.73E-01	1.93E-07	0.00E+00	5.01E-02	5.25E-05	5.02E-02	2.45E-02	3.75E-05	2.46E-02	5.89E-03	5.01E-02	1.41E-04	5.03E-02	0.00E+00	5.01E-02	1.97E-01	7.40E-02	3.85E-02
COMM	Post Closure	Selenium	3.07E-03	5.00E-01	1.89E-04	5.00E-01	5.00E-01	1.89E-03	5.02E-01	1.25E-07	0.00E+00	1.27E-03	5.09E-06	1.27E-03	1.27E-03	3.64E-06	1.27E-03	1.43E-03	1.27E-03	1.37E-05	1.28E-03	0.00E+00	2.89E-01	6.02E+00	2.86E-01	5.10E-01

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
URBN	Base	Arsenic	0.00E+00	1.56E+00	0.00E+00	1.56E+00	1.56E+00	0.00E+00	1.56E+00	1.19E-09	0.00E+00	1.28E-03	0.00E+00	1.28E-03	1.28E-03	0.00E+00	1.28E-03	1.62E-03	1.28E-03	0.00E+00	1.28E-03	0.00E+00	4.00E-03	8.00E-02	4.00E-03	3.00E-03
URBN	Base	Barium	0.00E+00	7.92E+01	0.00E+00	7.92E+01	7.92E+01	0.00E+00	7.92E+01	6.02E-08	0.00E+00	3.32E-01	0.00E+00	3.32E-01	3.32E-01	0.00E+00	3.32E-01	1.54E-01	3.32E-01	0.00E+00	3.32E-01	0.00E+00	2.12E-04	2.49E-04	3.13E-04	2.44E-02
URBN	Base	Beryllium	0.00E+00	2.90E-01	0.00E+00	2.90E-01	2.90E-01	0.00E+00	2.90E-01	2.20E-10	0.00E+00	9.73E-05	0.00E+00	9.73E-05	9.73E-05	0.00E+00	9.73E-05	5.66E-05	9.73E-05	0.00E+00	9.73E-05	0.00E+00	8.73E-06	4.17E-06	1.98E-05	1.62E-03
URBN	Base	Chromium	0.00E+00	5.10E+01	0.00E+00	5.10E+01	5.10E+01	0.00E+00	5.10E+01	3.87E-08	0.00E+00	3.23E-02	0.00E+00	3.23E-02	3.23E-02	0.00E+00	3.23E-02	2.98E-02	3.23E-02	0.00E+00	3.23E-02	0.00E+00	1.10E-01	6.00E-02	1.30E-01	7.00E-02
URBN	Base	Cobalt	0.00E+00	6.57E+00	0.00E+00	6.57E+00	6.57E+00	0.00E+00	6.57E+00	5.00E-09	0.00E+00	1.10E-02	0.00E+00	1.10E-02	1.71E-02	0.00E+00	1.71E-02	5.98E-03	1.10E-02	0.00E+00	1.10E-02	0.00E+00	3.18E-03	4.67E-02	1.28E-02	1.08E-02
URBN	Base	Iron	0.00E+00	5.13E+04	0.00E+00	5.13E+04	5.13E+04	0.00E+00	5.13E+04	3.90E-05	0.00E+00	2.35E+01	0.00E+00	2.35E+01	2.67E+01	0.00E+00	2.67E+01	6.66E+00	2.35E+01	0.00E+00	2.35E+01	0.00E+00	4.37E+01	9.28E+01	4.17E+01	3.48E+01
URBN	Base	Lead	0.00E+00	5.43E+00	0.00E+00	5.43E+00	5.43E+00	0.00E+00	5.43E+00	4.12E-09	0.00E+00	9.59E-03	0.00E+00	9.59E-03	9.59E-03	0.00E+00	9.59E-03	6.35E-03	9.59E-03	0.00E+00	9.59E-03	0.00E+00	1.49E-05	8.00E-02	2.00E-02	3.00E-02
URBN	Base	Manganese	0.00E+00	1.02E+03	0.00E+00	1.02E+03	1.02E+03	0.00E+00	1.02E+03	7.75E-07	0.00E+00	8.33E+01	0.00E+00	8.33E+01	3.32E+01	0.00E+00	3.32E+01	6.63E+00	8.33E+01	0.00E+00	8.33E+01	0.00E+00	1.50E+00	1.14E+00	2.84E+00	4.30E-01
URBN	Base	Mercury	0.00E+00	5.00E-02	0.00E+00	5.00E-02	5.00E-02	0.00E+00	5.00E-02	3.80E-11	0.00E+00	1.00E-02	0.00E+00	1.00E-02	5.85E-03	0.00E+00	5.85E-03	1.30E-03	1.00E-02	0.00E+00	1.00E-02	0.00E+00	2.00E-03	1.50E-01	1.00E-02	1.00E-02
URBN	Base	Molybdenum	0.00E+00	7.53E-01	0.00E+00	7.53E-01	7.53E-01	0.00E+00	7.53E-01	5.72E-10	0.00E+00	5.00E-02	0.00E+00	5.00E-02	2.45E-02	0.00E+00	2.45E-02	5.87E-03	5.00E-02	0.00E+00	5.00E-02	0.00E+00	2.00E-02	5.00E-02	2.00E-02	1.00E-02
URBN	Base	Selenium	0.00E+00	5.00E-01	0.00E+00	5.00E-01	5.00E-01	0.00E+00	5.00E-01	3.80E-10	0.00E+00	1.27E-03	0.00E+00	1.27E-03	1.27E-03	0.00E+00	1.27E-03	1.43E-03	1.27E-03	0.00E+00	1.27E-03	0.00E+00	2.50E-01	1.35E+00	2.30E-01	1.50E-01
URBN	Project	Arsenic	1.23E-02	1.56E+00	7.60E-04	1.56E+00	1.56E+00	7.60E-03	1.57E+00	1.19E-09	0.00E+00	1.28E-03	2.05E-05	1.30E-03	1.28E-03	1.46E-05	1.30E-03	1.62E-03	1.28E-03	5.51E-05	1.34E-03	0.00E+00	4.94E-03	1.54E-01	5.60E-03	4.28E-03
URBN	Project	Barium	1.05E+00	7.92E+01	6.48E-02	7.93E+01	7.92E+01	6.48E-01	7.99E+01	6.07E-08	0.00E+00	3.32E-01	1.74E-03	3.34E-01	3.32E-01	1.24E-03	3.33E-01	1.55E-01	3.32E-01	4.69E-03	3.37E-01	0.00E+00	2.43E-04	2.55E-04	4.17E-04	2.88E-02
URBN	Project	Beryllium	4.12E-03	2.90E-01	2.54E-04	2.90E-01	2.90E-01	2.54E-03	2.93E-01	2.22E-10	0.00E+00	9.74E-05	6.84E-06	1.04E-04	9.74E-05	4.89E-06	1.02E-04	5.66E-05	9.74E-05	1.84E-05	1.16E-04	0.00E+00	9.90E-06	5.91E-06	2.35E-05	1.87E-03
URBN	Project	Chromium	2.99E-01	5.10E+01	1.85E-02	5.10E+01	5.10E+01	1.85E-01	5.12E+01	3.89E-08	0.00E+00	3.23E-02	4.97E-04	3.28E-02	3.23E-02	3.55E-04	3.27E-02	2.98E-02	3.23E-02	1.34E-03	3.37E-02	0.00E+00	1.28E-01	7.24E-02	1.64E-01	8.50E-02
URBN	Project	Cobalt	3.54E-02	6.57E+00	2.18E-03	6.58E+00	6.57E+00	2.18E-02	6.60E+00	5.01E-09	0.00E+00	1.10E-02	5.88E-05	1.11E-02	1.71E-02	4.20E-05	1.71E-02	5.98E-03	1.10E-02	1.58E-04	1.12E-02	0.00E+00	3.97E-03	7.47E-02	1.71E-02	1.61E-02
URBN	Project	Iron	3.85E+02	5.13E+04	2.38E+01	5.13E+04	5.13E+04	2.38E+02	5.15E+04	3.91E-05	0.00E+00	2.35E+01	6.40E-01	2.41E+01	2.67E+01	4.58E-01	2.71E+01	6.67E+00	2.35E+01	1.73E+00	2.52E+01	0.00E+00	6.65E+01	1.38E+02	6.29E+01	5.63E+01
URBN	Project	Lead	3.20E-02	5.43E+00	1.98E-03	5.43E+00	5.43E+00	1.98E-02	5.45E+00	4.14E-09	0.00E+00	9.60E-03	5.32E-05	9.65E-03	9.60E-03	3.80E-05	9.63E-03	6.35E-03	9.60E-03	1.43E-04	9.74E-03	0.00E+00	1.65E-05	2.33E-02	2.46E-02	2.19E-02
URBN	Project	Manganese	8.48E+00	1.02E+03	5.24E-01	1.02E+03	1.02E+03	5.24E+00	1.03E+03	7.79E-07	0.00E+00	8.33E+01	1.41E-02	8.33E+01	3.32E+01	1.01E-02	3.32E+01	6.63E+00	8.33E+01	3.80E-02	8.34E+01	0.00E+00	2.09E+00	2.36E-01	4.39E+00	1.30E-01
URBN	Project	Mercury	8.44E-05	5.00E-02	5.21E-06	5.00E-02	5.00E-02	5.21E-05	5.01E-02	3.80E-11	0.00E+00	1.00E-02	1.40E-07	1.00E-02	5.85E-03	1.00E-07	5.85E-03	1.30E-03	1.00E-02	3.78E-07	1.00E-02	0.00E+00	2.01E-03	1.49E-01	1.01E-02	9.93E-03
URBN	Project	Molybdenum	3.78E-02	7.53E-01	2.33E-03	7.55E-01	7.53E-01	2.33E-02	7.76E-01	5.90E-10	0.00E+00	5.02E-02	6.28E-05	5.02E-02	2.45E-02	4.48E-05	2.46E-02	5.89E-03	5.02E-02	1.69E-04	5.03E-02	0.00E+00	5.01E-02	1.67E-01	7.39E-02	3.29E-02
URBN	Project	Selenium	3.67E-03	5.00E-01	2.27E-04	5.00E-01	5.00E-01	2.27E-03	5.02E-01	3.82E-10	0.00E+00	1.27E-03	6.09E-06	1.27E-03	1.27E-03	4.35E-06	1.27E-03	1.43E-03	1.27E-03	1.64E-05	1.28E-03	0.00E+00	2.89E-01	3.61E+00	2.85E-01	3.29E-01
URBN	Closure	Arsenic	1.23E-02	1.56E+00	7.60E-04	1.56E+00	1.56E+00	7.60E-03	1.57E+00	1.19E-09	0.00E+00	1.28E-03	2.05E-05	1.30E-03	1.28E-03	1.46E-05	1.30E-03	1.62E-03	1.28E-03	5.51E-05	1.34E-03	0.00E+00	4.94E-03	1.32E-01	5.59E-03	4.07E-03
URBN	Closure	Barium	1.05E+00	7.92E+01	6.48E-02	7.93E+01	7.92E+01	6.48E-01	7.99E+01	6.07E-08	0.00E+00	3.32E-01	1.74E-03	3.34E-01	3.32E-01	1.24E-03	3.33E-01	1.55E-01	3.32E-01	4.69E-03	3.37E-01	0.00E+00	2.43E-04	2.54E-04	4.17E-04	2.88E-02
URBN	Closure	Beryllium	4.12E-03	2.90E-01	2.54E-04	2.90E-01	2.90E-01	2.54E-03	2.93E-01	2.22E-10	0.00E+00	9.74E-05	6.84E-06	1.04E-04	9.74E-05	4.89E-06	1.02E-04	5.66E-05	9.74E-05	1.84E-05	1.16E-04	0.00E+00	9.90E-06	5.55E-06	2.35E-05	1.85E-03
URBN	Closure	Chromium	2.99E-01	5.10E+01	1.85E-02	5.10E+01	5.10E+01	1.85E-01	5.12E+01	3.89E-08	0.00E+00	3.23E-02	4.97E-04	3.28E-02	3.23E-02	3.55E-04	3.27E-02	2.98E-02	3.23E-02	1.34E-03	3.37E-02	0.00E+00	1.28E-01	6.78E-02	1.64E-01	8.22E-02
URBN	Closure	Cobalt	3.54E-02	6.57E+00	2.18E-03	6.58E+00	6.57E+00	2.18E-02	6.60E+00	5.01E-09	0.00E+00	1.10E-02	5.88E-05	1.11E-02	1.71E-02	4.20E-05	1.71E-02	5.98E-03	1.10E-02	1.58E-04	1.12E-02	0.00E+00	3.97E-03	6.82E-02	1.71E-02	1.57E-02
URBN	Closure	Iron	3.85E+02	5.13E+04	2.38E+01	5.13E+04	5.13E+04	2.38E+02	5.15E+04	3.91E-05	0.00E+00	2.35E+01	6.40E-01	2.41E+01	2.67E+01	4.58E-01	2.71E+01	6.67E+00	2.35E+01	1.73E+00	2.52E+01	0.00E+00	6.65E+01	1.28E+02	6.29E+01	5.49E+01
URBN	Closure	Lead	3.20E-02	5.43E+00	1.98E-03	5.43E+00	5.43E+00	1.98E-02	5.45E+00	4.14E-09	0.00E+00	9.60E-03	5.32E-05	9.65E-03	9.60E-03	3.80E-05	9.63E-03	6.35E-03	9.60E-03	1.43E-04	9.74E-03	0.00E+00	1.65E-05	2.22E-02	2.46E-02	2.17E-02
URBN	Closure	Manganese	8.48E+00	1.02E+03	5.24E-01	1.02E+03	1.02E+03	5.24E+00	1.03E+03	7.79E-07	0.00E+00	8.33E+01	1.41E-02	8.33E+01	3.32E+01	1.01E-02	3.32E+01	6.63E+00	8.33E+01	3.80E-02	8.34E+01	0.00E+00	2.09E+00	1.83E-01	4.39E+00	1.11E-01
URBN	Closure	Mercury	8.44E-05	5.00E-02	5.21E-06	5.00E-02	5.00E-02	5.21E-05	5.01E-02	3.80E-11	0.00E+00	1.00E-02	1.40E-07	1.00E-02	5.85E-03	1.00E-07	5.85E-03	1.30E-03	1.00E-02	3.78E-07	1.00E-02	0.00E+00	2.01E-03	1.49E-01	1.01E-02	9.94E-03
URBN	Closure	Molybdenum	3.78E-02	7.53E-01	2.33E-03	7.55E-01	7.53E-01	2.33E-02	7.76E-01	5.90E-10	0.00E+00	5.02E-02	6.28E-05	5.02E-02	2.45E-02	4.48E-05	2.46E-02	5.89E-03	5.02E-02	1.69E-04	5.03E-02	0.00E+00	5.00E-02	1.22E-01	7.38E-02	2.48E-02
URBN	Closure	Selenium	3.67E-03	5.00E-01	2.27E-04	5.00E-01	5.00E-01	2.27E-03	5.02E-01	3.82E-10	0.00E+00	1.27E-03	6.09E-06	1.27E-03	1.27E-03	4.35E-06	1.27E-03	1.43E-03	1.27E-03	1.64E-05	1.28E-03	0.00E+00	2.88E-01	2.73E+00	2.85E-01	2.62E-01
URBN	Post Closure	Arsenic	1.23E-02	1.56E+00	7.60E-04	1.56E+00	1.56E+00	7.60E-03	1.57E+00	1.19E-09	0.00E+00	1.28E-03	2.05E-05	1.30E-03	1.28E-03	1.46E-05	1.30E-03	1.62E-03	1.28E-03	5.51E-05	1.34E-03	0.00E+00	4.94E-03	1.72E-01	5.60E-03	4.46E-03
URBN	Post Closure	Barium	1.05E+00	7.92E+01	6.48E-02	7.93E+01	7.92E+01	6.48E-01	7.99E+01	6.07E-08	0.00E+00	3.32E-01	1.74E-03	3.34E-01	3.32E-01	1.24E-03	3.33E-01	1.55E-01	3.32E-01	4.69E-03	3.37E-01	0.00E+00	2.43E-04	2.53E-04	4.17E-04	2.88E-02
URBN	Post Closure	Beryllium	4.12E-03	2.90E-01	2.54E-04	2.90E-01	2.90E-01	2.54E-03	2.93E-01	2.22E-10	0.00E+00	9.74E-05	6.84E-06	1.04E-04	9.74E-05	4.89E-06	1.02E-04	5.66E-05	9.74E-05	1.84E-05	1.16E-04	0.00E+00	9.90E-06	5.43E-06	2.35E-05	1.85E-03
URBN	Post Closure	Chromium	2.99E-01	5.10E+01	1.85E-02	5.10E+01	5.10E+01	1.85E-01	5.12E+01	3.89E-08	0.00E+00	3.23E-02	4.97E-04	3.28E-02	3.23E-02	3.55E-04	3.27E-02	2.98E-02	3.23E-02	1.34E-03	3.37E-02	0.00E+00	1.28E-01	6.32E-02	1.64E-01	7.94E-02
URBN	Post Closure	Cobalt	3.54E-02	6.57E+00	2.18E-03	6.58E+00	6.57E+00	2.18E-02	6.60E+00	5.01E-09	0.00E+00	1.10E-02	5.88E-05	1.11E-02	1.71E-02	4.20E-05	1.71E-02	5.98E-03	1.10E-02	1.58E-04	1.12E-02	0.00E+00	3.97E-03	6.31E-02	1.71E-02	1.53E-02
URBN	Post Closure	Iron	3.85E+02	5.13E+04	2.38E+01	5.13E+04	5.13E+04	2.38E+02	5.15E+04	3.91E-05	0.00E+00	2.35E+01	6.40E-01	2.41E+01	2.67E+01	4.58E-01	2.71E+01	6.67E+00	2.35E+01	1.73E+00	2.52E+01	0.00E+00	6.65E+01	1.35E+02	6.29E+01	5.60E+01
URBN	Post Closure	Lead	3.20E-02	5.43E+00	1.98E-03	5.43E+00	5.43E+00	1.98E-02	5.45E+00	4.14E-09	0.00E+00	9.60E-03	5.32E-05	9.65E-03	9.60E-03	3.80E-05	9.63E-03	6.35E-03	9.60E-03	1.43E-04	9.74E-03	0.00E+00	1.65E-05	2.05E-02	2.46E-02	2.14E-02
URBN	Post Closure	Manganese	8.48E+00	1.02E+03	5.24E-01	1.02E+03	1.02E+03	5.24E+00	1.03E+03	7.79E-07	0.00E+00	8.33E+01	1.41E-02	8.33E+01	3.32E+01	1.01E-02	3.32E+01	6.63E+00	8.33E+01	3.80E-02	8.34E+01	0.00E+00	2.09E+00	1.71E-01	4.39E+00	1.07E-01
URBN	Post Closure	Mercury	8.44E-05	5.00E-02	5.21E-06	5.00E-02	5.00E-02	5.21E-05	5.01E-02	3.80E-11	0.00E+00	1.00E-02	1.40E-07	1.00E-02	5.85E-03	1.00E-07	5.85E-03	1.30E-03	1.00E-02	3.78E-07	1.00E-02	0.00E+00	2.01E-03	1.47E-01	1.01E-02	9.84E-03
URBN	Post Closure	Molybdenum	3.78E-02	7.53E-01	2.33E-03	7.55E-01	7.53E-01	2.33E-02	7.76E-01	5.90E-10	0.00E+00	5.02E-02	6.28E-05	5.02E-02	2.45E-02	4.48E-05	2.46E-02	5.89E-03	5.02E-02	1.69E-04	5.03E-02	0.00E+00	5.01E-02	1.97E-01	7.40E-02	3.85E-02
URBN	Post Closure	Selenium	3.67E-03	5.00E-01	2.27E-04	5.00E-01	5.00E-01	2.27E-03	5.02E-01	3.82E-10	0.00E+00	1.27E-03	6.09E-06	1.27E-03	1.27E-03	4.35E-06	1.27E-03	1.43E-03	1.27E-03	1.64E-05	1.28E-03	0.00E+00	2.89E-01	6.02E+00	2.86E-01	5.10E-01

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
RESI	Project-Base	Arsenic	7.12E-02	0.00E+00	4.39E-03	4.39E-03	0.00E+00	4.39E-02	4.39E-02	3.34E-11	2.02E-04	3.62E-06	1.18E-04	1.22E-04	3.62E-06	8.45E-05	8.81E-05	4.57E-06	3.62E-06	3.19E-04	3.22E-04	2.30E-02	1.51E-03	6.46E-02	2.06E-03	1.56E-03
RESI	Project-Base	Barium	6.06E+00	0.00E+00	3.74E-01	3.74E-01	0.00E+00	3.74E+00	3.74E+00	2.84E-09	2.99E-03	1.57E-03	1.01E-02	1.16E-02	1.57E-03	7.19E-03	8.76E-03	7.30E-04	1.57E-03	2.71E-02	2.87E-02	8.62E-02	3.11E-05	5.73E-05	1.04E-04	5.70E-03
RESI	Project-Base	Beryllium	2.38E-02	0.00E+00	1.47E-03	1.47E-03	0.00E+00	1.47E-02	1.47E-02	1.12E-11	2.60E-05	4.93E-07	3.95E-05	4.00E-05	4.93E-07	2.82E-05	2.87E-05	2.87E-07	4.93E-07	1.07E-04	1.07E-04	1.61E-03	1.97E-06	1.59E-06	5.90E-06	4.24E-04
RESI	Project-Base	Chromium	1.73E+00	0.00E+00	1.07E-01	1.07E-01	0.00E+00	1.07E+00	1.07E+00	8.12E-10	2.52E-06	6.78E-05	2.87E-03	2.94E-03	6.78E-05	2.05E-03	2.12E-03	6.25E-05	6.78E-05	7.74E-03	7.81E-03	4.78E-05	5.43E-02	1.09E-02	3.42E-02	1.30E-02
RESI	Project-Base	Cobalt	2.04E-01	0.00E+00	1.26E-02	1.26E-02	0.00E+00	1.26E-01	1.26E-01	9.60E-11	1.47E-03	2.11E-05	3.40E-04	3.61E-04	3.28E-05	2.43E-04	2.75E-04	1.15E-05	2.11E-05	9.15E-04	9.36E-04	4.71E-02	7.93E-04	2.79E-02	4.37E-03	5.29E-03
RESI	Project-Base	Iron	2.23E+03	0.00E+00	1.38E+02	1.38E+02	0.00E+00	1.38E+03	1.38E+03	1.05E-06	1.47E-01	6.30E-02	3.70E+00	3.76E+00	7.15E-02	2.64E+00	2.72E+00	1.79E-02	6.30E-02	9.97E+00	1.00E+01	2.99E+01	2.28E+01	6.67E+01	2.12E+01	2.47E+01
RESI	Project-Base	Lead	1.85E-01	0.00E+00	1.14E-02	1.14E-02	0.00E+00	1.14E-01	1.14E-01	8.69E-11	0.00E+00	2.02E-05	3.07E-04	3.28E-04	2.02E-05	2.20E-04	2.40E-04	1.34E-05	2.02E-05	8.29E-04	8.49E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
RESI	Project-Base	Manganese	4.90E+01	0.00E+00	3.03E+00	3.03E+00	0.00E+00	3.03E+01	3.03E+01	2.30E-08	8.67E-02	2.47E-01	8.14E-02	3.28E-01	9.84E-02	5.82E-02	1.57E-01	1.97E-02	2.47E-01	2.19E-01	4.66E-01	3.54E+00	6.08E-01	2.02E-01	1.56E+00	8.35E-02
RESI	Project-Base	Mercury	4.88E-04	0.00E+00	3.01E-05	3.01E-05	0.00E+00	3.01E-04	3.01E-04	2.29E-13	0.00E+00	6.03E-06	8.11E-07	6.84E-06	3.53E-06	5.79E-07	4.11E-06	7.84E-07	6.03E-06	2.18E-06	8.21E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
RESI	Project-Base	Molybdenum	2.18E-01	0.00E+00	1.35E-02	1.35E-02	0.00E+00	1.35E-01	1.35E-01	1.02E-10	2.05E-03	8.95E-04	3.63E-04	1.26E-03	4.38E-04	2.59E-04	6.97E-04	1.05E-04	8.95E-04	9.77E-04	1.87E-03	2.64E-01	3.01E-02	1.40E-01	5.40E-02	2.72E-02
RESI	Project-Base	Selenium	2.12E-02	0.00E+00	1.31E-03	1.31E-03	0.00E+00	1.31E-02	1.31E-02	9.95E-12	4.98E-04	3.32E-06	3.52E-05	3.85E-05	3.32E-06	2.52E-05	2.85E-05	3.74E-06	3.32E-06	9.49E-05	9.82E-05	6.43E-02	3.34E-02	1.84E+00	4.85E-02	1.46E-01
RECR	Project-Base	Arsenic	7.12E-02	0.00E+00	4.39E-03	4.39E-03	0.00E+00	4.39E-02	4.39E-02	3.34E-11	2.02E-04	3.62E-06	1.18E-04	1.22E-04	3.62E-06	8.45E-05	8.81E-05	4.57E-06	3.62E-06	3.19E-04	3.22E-04	2.30E-02	1.51E-03	6.46E-02	2.06E-03	1.56E-03
RECR	Project-Base	Barium	6.06E+00	0.00E+00	3.74E-01	3.74E-01	0.00E+00	3.74E+00	3.74E+00	2.84E-09	2.99E-03	1.57E-03	1.01E-02	1.16E-02	1.57E-03	7.19E-03	8.76E-03	7.30E-04	1.57E-03	2.71E-02	2.87E-02	8.62E-02	3.11E-05	5.73E-05	1.04E-04	5.70E-03
RECR	Project-Base	Beryllium	2.38E-02	0.00E+00	1.47E-03	1.47E-03	0.00E+00	1.47E-02	1.47E-02	1.12E-11	2.60E-05	4.93E-07	3.95E-05	4.00E-05	4.93E-07	2.82E-05	2.87E-05	2.87E-07	4.93E-07	1.07E-04	1.07E-04	1.61E-03	1.97E-06	1.59E-06	5.90E-06	4.24E-04
RECR	Project-Base	Chromium	1.73E+00	0.00E+00	1.07E-01	1.07E-01	0.00E+00	1.07E+00	1.07E+00	8.12E-10	2.52E-06	6.78E-05	2.87E-03	2.94E-03	6.78E-05	2.05E-03	2.12E-03	6.25E-05	6.78E-05	7.74E-03	7.81E-03	4.78E-05	5.43E-02	1.09E-02	3.42E-02	1.30E-02
RECR	Project-Base	Cobalt	2.04E-01	0.00E+00	1.26E-02	1.26E-02	0.00E+00	1.26E-01	1.26E-01	9.60E-11	1.47E-03	2.11E-05	3.40E-04	3.61E-04	3.28E-05	2.43E-04	2.75E-04	1.15E-05	2.11E-05	9.15E-04	9.36E-04	4.71E-02	7.93E-04	2.79E-02	4.37E-03	5.29E-03
RECR	Project-Base	Iron	2.23E+03	0.00E+00	1.38E+02	1.38E+02	0.00E+00	1.38E+03	1.38E+03	1.05E-06	1.47E-01	6.30E-02	3.70E+00	3.76E+00	7.15E-02	2.64E+00	2.72E+00	1.79E-02	6.30E-02	9.97E+00	1.00E+01	2.99E+01	2.28E+01	6.67E+01	2.12E+01	2.47E+01
RECR	Project-Base	Lead	1.85E-01	0.00E+00	1.14E-02	1.14E-02	0.00E+00	1.14E-01	1.14E-01	8.69E-11	0.00E+00	2.02E-05	3.07E-04	3.28E-04	2.02E-05	2.20E-04	2.40E-04	1.34E-05	2.02E-05	8.29E-04	8.49E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
RECR	Project-Base	Manganese	4.90E+01	0.00E+00	3.03E+00	3.03E+00	0.00E+00	3.03E+01	3.03E+01	2.30E-08	8.67E-02	2.47E-01	8.14E-02	3.28E-01	9.84E-02	5.82E-02	1.57E-01	1.97E-02	2.47E-01	2.19E-01	4.66E-01	3.54E+00	6.08E-01	2.02E-01	1.56E+00	8.35E-02
RECR	Project-Base	Mercury	4.88E-04	0.00E+00	3.01E-05	3.01E-05	0.00E+00	3.01E-04	3.01E-04	2.29E-13	0.00E+00	6.03E-06	8.11E-07	6.84E-06	3.53E-06	5.79E-07	4.11E-06	7.84E-07	6.03E-06	2.18E-06	8.21E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
RECR	Project-Base	Molybdenum	2.18E-01	0.00E+00	1.35E-02	1.35E-02	0.00E+00	1.35E-01	1.35E-01	1.02E-10	2.05E-03	8.95E-04	3.63E-04	1.26E-03	4.38E-04	2.59E-04	6.97E-04	1.05E-04	8.95E-04	9.77E-04	1.87E-03	2.64E-01	3.01E-02	1.40E-01	5.40E-02	2.72E-02
RECR	Project-Base	Selenium	2.12E-02	0.00E+00	1.31E-03	1.31E-03	0.00E+00	1.31E-02	1.31E-02	9.95E-12	4.98E-04	3.32E-06	3.52E-05	3.85E-05	3.32E-06	2.52E-05	2.85E-05	3.74E-06	3.32E-06	9.49E-05	9.82E-05	6.43E-02	3.34E-02	1.84E+00	4.85E-02	1.46E-01
COMM	Project-Base	Arsenic	1.03E-02	0.00E+00	6.36E-04	6.36E-04	0.00E+00	6.36E-03	6.36E-03	1.59E-09	0.00E+00	5.23E-07	1.71E-05	1.76E-05	5.23E-07	1.22E-05	1.27E-05	6.61E-07	5.23E-07	4.61E-05	4.66E-05	0.00E+00	1.51E-03	6.46E-02	2.06E-03	1.56E-03
COMM	Project-Base	Barium	8.77E-01	0.00E+00	5.41E-02	5.41E-02	0.00E+00	5.41E-01	5.41E-01	1.35E-07	0.00E+00	2.27E-04	1.46E-03	1.68E-03	2.27E-04	1.04E-03	1.27E-03	1.06E-04	2.27E-04	3.92E-03	4.15E-03	0.00E+00	3.11E-05	5.73E-05	1.04E-04	5.70E-03
COMM	Project-Base	Beryllium	3.44E-03	0.00E+00	2.13E-04	2.13E-04	0.00E+00	2.13E-03	2.13E-03	5.31E-10	0.00E+00	7.13E-08	5.72E-06	5.79E-06	7.13E-08	4.09E-06	4.16E-06	4.15E-08	7.13E-08	1.54E-05	1.55E-05	0.00E+00	1.97E-06	1.59E-06	5.90E-06	4.24E-04
COMM	Project-Base	Chromium	2.50E-01	0.00E+00	1.55E-02	1.55E-02	0.00E+00	1.55E-01	1.55E-01	3.86E-08	0.00E+00	9.80E-06	4.16E-04	4.25E-04	9.80E-06	2.97E-04	3.07E-04	9.04E-06	9.80E-06	1.12E-03	1.13E-03	0.00E+00	5.43E-02	1.09E-02	3.42E-02	1.30E-02
COMM	Project-Base	Cobalt	2.96E-02	0.00E+00	1.83E-03	1.83E-03	0.00E+00	1.83E-02	1.83E-02	4.57E-09	0.00E+00	3.06E-06	4.91E-05	5.22E-05	4.75E-06	3.51E-05	3.98E-05	1.66E-06	3.06E-06	1.32E-04	1.35E-04	0.00E+00	7.93E-04	2.79E-02	4.37E-03	5.29E-03
COMM	Project-Base	Iron	3.22E+02	0.00E+00	1.99E+01	1.99E+01	0.00E+00	1.99E+02	1.99E+02	4.98E-05	0.00E+00	9.11E-03	5.35E-01	5.44E-01	1.03E-02	3.82E-01	3.93E-01	2.59E-03	9.11E-03	1.44E+00	1.45E+00	0.00E+00	2.28E+01	6.67E+01	2.12E+01	2.47E+01
COMM	Project-Base	Lead	2.68E-02	0.00E+00	1.65E-03	1.65E-03	0.00E+00	1.65E-02	1.65E-02	4.13E-09	0.00E+00	2.92E-06	4.45E-05	4.74E-05	2.92E-06	3.18E-05	3.47E-05	1.93E-06	2.92E-06	1.20E-04	1.23E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
COMM	Project-Base	Manganese	7.09E+00	0.00E+00	4.38E-01	4.38E-01	0.00E+00	4.38E+00	4.38E+00	1.09E-06	0.00E+00	3.57E-02	1.18E-02	4.75E-02	1.42E-02	8.41E-03	2.26E-02	2.85E-03	3.57E-02	3.17E-02	6.75E-02	0.00E+00	6.08E-01	2.02E-01	1.56E+00	8.35E-02
COMM	Project-Base	Mercury	7.06E-05	0.00E+00	4.36E-06	4.36E-06	0.00E+00	4.36E-05	4.36E-05	1.09E-11	0.00E+00	8.72E-07	1.17E-07	9.89E-07	5.10E-07	8.38E-08	5.94E-07	1.13E-07	8.72E-07	3.16E-07	1.19E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
COMM	Project-Base	Molybdenum	3.16E-02	0.00E+00	1.95E-03	1.95E-03	0.00E+00	1.95E-02	1.95E-02	4.88E-09	0.00E+00	1.30E-04	5.25E-05	1.82E-04	6.34E-05	3.75E-05	1.01E-04	1.52E-05	1.30E-04	1.41E-04	2.71E-04	0.00E+00	3.01E-02	1.40E-01	5.40E-02	2.72E-02
COMM	Project-Base	Selenium	3.07E-03	0.00E+00	1.89E-04	1.89E-04	0.00E+00	1.89E-03	1.89E-03	4.74E-10	0.00E+00	4.80E-07	5.09E-06	5.57E-06	4.80E-07	3.64E-06	4.12E-06	5.42E-07	4.80E-07	1.37E-05	1.42E-05	0.00E+00	3.34E-02	1.84E+00	4.85E-02	1.46E-01
URBN	Project-Base	Arsenic	1.23E-02	0.00E+00	7.60E-04	7.60E-04	0.00E+00	7.60E-03	7.60E-03	5.78E-12	0.00E+00	6.26E-07	2.05E-05	2.11E-05	6.26E-07	1.46E-05	1.52E-05	7.91E-07	6.26E-07	5.51E-05	5.57E-05	0.00E+00	1.51E-03	6.46E-02	2.06E-03	1.56E-03
URBN	Project-Base	Barium	1.05E+00	0.00E+00	6.48E-02	6.48E-02	0.00E+00	6.48E-01	6.48E-01	4.92E-10	0.00E+00	2.71E-04	1.74E-03	2.01E-03	2.71E-04	1.24E-03	1.52E-03	1.26E-04	2.71E-04	4.69E-03	4.97E-03	0.00E+00	3.11E-05	5.73E-05	1.04E-04	5.70E-03
URBN	Project-Base	Beryllium	4.12E-03	0.00E+00	2.54E-04	2.54E-04	0.00E+00	2.54E-03	2.54E-03	1.93E-12	0.00E+00	8.53E-08	6.84E-06	6.92E-06	8.53E-08	4.89E-06	4.97E-06	4.96E-08	8.53E-08	1.84E-05	1.85E-05	0.00E+00	1.97E-06	1.59E-06	5.90E-06	4.24E-04
URBN	Project-Base	Chromium	2.99E-01	0.00E+00	1.85E-02	1.85E-02	0.00E+00	1.85E-01	1.85E-01	1.40E-10	0.00E+00	1.17E-05	4.97E-04	5.09E-04	1.17E-05	3.55E-04	3.67E-04	1.08E-05	1.17E-05	1.34E-03	1.35E-03	0.00E+00	5.43E-02	1.09E-02	3.42E-02	1.30E-02
URBN	Project-Base	Cobalt	3.54E-02	0.00E+00	2.18E-03	2.18E-03	0.00E+00	2.18E-02	2.18E-02	1.66E-11	0.00E+00	3.66E-06	5.88E-05	6.24E-05	5.68E-06	4.20E-05	4.77E-05	1.99E-06	3.66E-06	1.58E-04	1.62E-04	0.00E+00	7.93E-04	2.79E-02	4.37E-03	5.29E-03
URBN	Project-Base	Iron	3.85E+02	0.00E+00	2.38E+01	2.38E+01	0.00E+00	2.38E+02	2.38E+02	1.81E-07	0.00E+00	1.09E-02	6.40E-01	6.51E-01	1.24E-02	4.58E-01	4.70E-01	3.09E-03	1.09E-02	1.73E+00	1.74E+00	0.00E+00	2.28E+01	6.67E+01	2.12E+01	2.47E+01
URBN	Project-Base	Lead	3.20E-02	0.00E+00	1.98E-03	1.98E-03	0.00E+00	1.98E-02	1.98E-02	1.50E-11	0.00E+00	3.50E-06	5.32E-05	5.67E-05	3.50E-06	3.80E-05	4.15E-05	2.31E-06	3.50E-06	1.43E-04	1.47E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
URBN	Project-Base	Manganese	8.48E+00	0.00E+00	5.24E-01	5.24E-01	0.00E+00	5.24E+00	5.24E+00	3.98E-09	0.00E+00	4.28E-02	1.41E-02	5.68E-02	1.70E-02	1.01E-02	2.71E-02	3.40E-03	4.28E-02	3.80E-02	8.07E-02	0.00E+00	6.08E-01	2.02E-01	1.56E+00	8.35E-02
URBN	Project-Base	Mercury	8.44E-05	0.00E+00	5.21E-06	5.21E-06	0.00E+00	5.21E-05	5.21E-05	3.96E-14	0.00E+00	1.04E-06	1.40E-07	1.18E-06	6.10E-07	1.00E-07	7.10E-07	1.36E-07	1.04E-06	3.78E-07	1.42E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
URBN	Project-Base	Molybdenum	3.78E-02	0.00E+00	2.33E-03	2.33E-03	0.00E+00	2.33E-02	2.33E-02	1.77E-11	0.00E+00	1.55E-04	6.28E-05	2.18E-04	7.58E-05	4.48E-05	1.21E-04	1.82E-05	1.55E-04	1.69E-04	3.24E-04	0.00E+00	3.01E-02	1.40E-01	5.40E-02	2.72E-02
URBN	Project-Base	Selenium	3.67E-03	0.00E+00	2.27E-04	2.27E-04	0.00E+00	2.27E-03	2.27E-03	1.72E-12	0.00E+00	5.74E-07	6.09E-06	6.67E-06	5.74E-07	4.35E-06	4.93E-06	6.48E-07	5.74E-07	1.64E-05	1.70E-05	0.00E+00	3.34E-02	1.84E+00	4.85E-02	1.46E-01

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
RESI	Closure-Base	Arsenic	7.12E-02	0.00E+00	4.39E-03	4.39E-03	0.00E+00	4.39E-02	4.39E-02	3.34E-11	1.01E-04	3.62E-06	1.18E-04	1.22E-04	3.62E-06	8.45E-05	8.81E-05	4.57E-06	3.62E-06	3.19E-04	3.22E-04	1.15E-02	1.51E-03	5.40E-02	2.05E-03	1.46E-03
RESI	Closure-Base	Barium	6.06E+00	0.00E+00	3.74E-01	3.74E-01	0.00E+00	3.74E+00	3.74E+00	2.84E-09	2.91E-03	1.57E-03	1.01E-02	1.16E-02	1.57E-03	7.19E-03	8.76E-03	7.30E-04	1.57E-03	2.71E-02	2.87E-02	8.38E-02	3.11E-05	3.42E-05	1.04E-04	5.15E-03
RESI	Closure-Base	Beryllium	2.38E-02	0.00E+00	1.47E-03	1.47E-03	0.00E+00	1.47E-02	1.47E-02	1.12E-11	7.16E-06	4.93E-07	3.95E-05	4.00E-05	4.93E-07	2.82E-05	2.87E-05	2.87E-07	4.93E-07	1.07E-04	1.07E-04	4.44E-04	1.97E-06	1.46E-06	5.90E-06	4.20E-04
RESI	Closure-Base	Chromium	1.73E+00	0.00E+00	1.07E-01	1.07E-01	0.00E+00	1.07E+00	1.07E+00	8.12E-10	0.00E+00	6.78E-05	2.87E-03	2.94E-03	6.78E-05	2.05E-03	2.12E-03	6.25E-05	6.78E-05	7.74E-03	7.81E-03	0.00E+00	5.43E-02	9.67E-03	3.42E-02	1.22E-02
RESI	Closure-Base	Cobalt	2.04E-01	0.00E+00	1.26E-02	1.26E-02	0.00E+00	1.26E-01	1.26E-01	9.60E-11	8.84E-04	2.11E-05	3.40E-04	3.61E-04	3.28E-05	2.43E-04	2.75E-04	1.15E-05	2.11E-05	9.15E-04	9.36E-04	2.83E-02	7.89E-04	2.16E-02	4.35E-03	4.87E-03
RESI	Closure-Base	Iron	2.23E+03	0.00E+00	1.38E+02	1.38E+02	0.00E+00	1.38E+03	1.38E+03	1.05E-06	1.13E-01	6.30E-02	3.70E+00	3.76E+00	7.15E-02	2.64E+00	2.72E+00	1.79E-02	6.30E-02	9.97E+00	1.00E+01	2.30E+01	2.28E+01	3.50E+01	2.12E+01	2.01E+01
RESI	Closure-Base	Lead	1.85E-01	0.00E+00	1.14E-02	1.14E-02	0.00E+00	1.14E-01	1.14E-01	8.69E-11	0.00E+00	2.02E-05	3.07E-04	3.28E-04	2.02E-05	2.20E-04	2.40E-04	1.34E-05	2.02E-05	8.29E-04	8.49E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
RESI	Closure-Base	Manganese	4.90E+01	0.00E+00	3.03E+00	3.03E+00	0.00E+00	3.03E+01	3.03E+01	2.30E-08	6.04E-02	2.47E-01	8.14E-02	3.28E-01	9.84E-02	5.82E-02	1.57E-01	1.97E-02	2.47E-01	2.19E-01	4.66E-01	2.47E+00	6.07E-01	7.58E-03	1.56E+00	1.62E-02
RESI	Closure-Base	Mercury	4.88E-04	0.00E+00	3.01E-05	3.01E-05	0.00E+00	3.01E-04	3.01E-04	2.29E-13	0.00E+00	6.03E-06	8.11E-07	6.84E-06	3.53E-06	5.79E-07	4.11E-06	7.84E-07	6.03E-06	2.18E-06	8.21E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
RESI	Closure-Base	Molybdenum	2.18E-01	0.00E+00	1.35E-02	1.35E-02	0.00E+00	1.35E-01	1.35E-01	1.02E-10	1.39E-03	8.95E-04	3.63E-04	1.26E-03	4.38E-04	2.59E-04	6.97E-04	1.05E-04	8.95E-04	9.77E-04	1.87E-03	1.79E-01	3.00E-02	7.25E-02	5.38E-02	1.48E-02
RESI	Closure-Base	Selenium	2.12E-02	0.00E+00	1.31E-03	1.31E-03	0.00E+00	1.31E-02	1.31E-02	9.95E-12	2.57E-04	3.32E-06	3.52E-05	3.85E-05	3.32E-06	2.52E-05	2.85E-05	3.74E-06	3.32E-06	9.49E-05	9.82E-05	3.32E-02	3.33E-02	1.38E+00	4.83E-02	1.11E-01
RECR	Closure-Base	Arsenic	7.12E-02	0.00E+00	4.39E-03	4.39E-03	0.00E+00	4.39E-02	4.39E-02	3.34E-11	1.01E-04	3.62E-06	1.18E-04	1.22E-04	3.62E-06	8.45E-05	8.81E-05	4.57E-06	3.62E-06	3.19E-04	3.22E-04	1.15E-02	1.51E-03	5.40E-02	2.05E-03	1.46E-03
RECR	Closure-Base	Barium	6.06E+00	0.00E+00	3.74E-01	3.74E-01	0.00E+00	3.74E+00	3.74E+00	2.84E-09	2.91E-03	1.57E-03	1.01E-02	1.16E-02	1.57E-03	7.19E-03	8.76E-03	7.30E-04	1.57E-03	2.71E-02	2.87E-02	8.38E-02	3.11E-05	3.42E-05	1.04E-04	5.15E-03
RECR	Closure-Base	Beryllium	2.38E-02	0.00E+00	1.47E-03	1.47E-03	0.00E+00	1.47E-02	1.47E-02	1.12E-11	7.16E-06	4.93E-07	3.95E-05	4.00E-05	4.93E-07	2.82E-05	2.87E-05	2.87E-07	4.93E-07	1.07E-04	1.07E-04	4.44E-04	1.97E-06	1.46E-06	5.90E-06	4.20E-04
RECR	Closure-Base	Chromium	1.73E+00	0.00E+00	1.07E-01	1.07E-01	0.00E+00	1.07E+00	1.07E+00	8.12E-10	0.00E+00	6.78E-05	2.87E-03	2.94E-03	6.78E-05	2.05E-03	2.12E-03	6.25E-05	6.78E-05	7.74E-03	7.81E-03	0.00E+00	5.43E-02	9.67E-03	3.42E-02	1.22E-02
RECR	Closure-Base	Cobalt	2.04E-01	0.00E+00	1.26E-02	1.26E-02	0.00E+00	1.26E-01	1.26E-01	9.60E-11	8.84E-04	2.11E-05	3.40E-04	3.61E-04	3.28E-05	2.43E-04	2.75E-04	1.15E-05	2.11E-05	9.15E-04	9.36E-04	2.83E-02	7.89E-04	2.16E-02	4.35E-03	4.87E-03
RECR	Closure-Base	Iron	2.23E+03	0.00E+00	1.38E+02	1.38E+02	0.00E+00	1.38E+03	1.38E+03	1.05E-06	1.13E-01	6.30E-02	3.70E+00	3.76E+00	7.15E-02	2.64E+00	2.72E+00	1.79E-02	6.30E-02	9.97E+00	1.00E+01	2.30E+01	2.28E+01	3.50E+01	2.12E+01	2.01E+01
RECR	Closure-Base	Lead	1.85E-01	0.00E+00	1.14E-02	1.14E-02	0.00E+00	1.14E-01	1.14E-01	8.69E-11	0.00E+00	2.02E-05	3.07E-04	3.28E-04	2.02E-05	2.20E-04	2.40E-04	1.34E-05	2.02E-05	8.29E-04	8.49E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
RECR	Closure-Base	Manganese	4.90E+01	0.00E+00	3.03E+00	3.03E+00	0.00E+00	3.03E+01	3.03E+01	2.30E-08	6.04E-02	2.47E-01	8.14E-02	3.28E-01	9.84E-02	5.82E-02	1.57E-01	1.97E-02	2.47E-01	2.19E-01	4.66E-01	2.47E+00	6.07E-01	7.58E-03	1.56E+00	1.62E-02
RECR	Closure-Base	Mercury	4.88E-04	0.00E+00	3.01E-05	3.01E-05	0.00E+00	3.01E-04	3.01E-04	2.29E-13	0.00E+00	6.03E-06	8.11E-07	6.84E-06	3.53E-06	5.79E-07	4.11E-06	7.84E-07	6.03E-06	2.18E-06	8.21E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
RECR	Closure-Base	Molybdenum	2.18E-01	0.00E+00	1.35E-02	1.35E-02	0.00E+00	1.35E-01	1.35E-01	1.02E-10	1.39E-03	8.95E-04	3.63E-04	1.26E-03	4.38E-04	2.59E-04	6.97E-04	1.05E-04	8.95E-04	9.77E-04	1.87E-03	1.79E-01	3.00E-02	7.25E-02	5.38E-02	1.48E-02
RECR	Closure-Base	Selenium	2.12E-02	0.00E+00	1.31E-03	1.31E-03	0.00E+00	1.31E-02	1.31E-02	9.95E-12	2.57E-04	3.32E-06	3.52E-05	3.85E-05	3.32E-06	2.52E-05	2.85E-05	3.74E-06	3.32E-06	9.49E-05	9.82E-05	3.32E-02	3.33E-02	1.38E+00	4.83E-02	1.11E-01
COMM	Closure-Base	Arsenic	1.03E-02	0.00E+00	6.36E-04	6.36E-04	0.00E+00	6.36E-03	6.36E-03	1.59E-09	0.00E+00	5.23E-07	1.71E-05	1.76E-05	5.23E-07	1.22E-05	1.27E-05	6.61E-07	5.23E-07	4.61E-05	4.66E-05	0.00E+00	1.51E-03	5.40E-02	2.05E-03	1.46E-03
COMM	Closure-Base	Barium	8.77E-01	0.00E+00	5.41E-02	5.41E-02	0.00E+00	5.41E-01	5.41E-01	1.35E-07	0.00E+00	2.27E-04	1.46E-03	1.68E-03	2.27E-04	1.04E-03	1.27E-03	1.06E-04	2.27E-04	3.92E-03	4.15E-03	0.00E+00	3.11E-05	3.42E-05	1.04E-04	5.15E-03
COMM	Closure-Base	Beryllium	3.44E-03	0.00E+00	2.13E-04	2.13E-04	0.00E+00	2.13E-03	2.13E-03	5.31E-10	0.00E+00	7.13E-08	5.72E-06	5.79E-06	7.13E-08	4.09E-06	4.16E-06	4.15E-08	7.13E-08	1.54E-05	1.55E-05	0.00E+00	1.97E-06	1.46E-06	5.90E-06	4.20E-04
COMM	Closure-Base	Chromium	2.50E-01	0.00E+00	1.55E-02	1.55E-02	0.00E+00	1.55E-01	1.55E-01	3.86E-08	0.00E+00	9.80E-06	4.16E-04	4.25E-04	9.80E-06	2.97E-04	3.07E-04	9.04E-06	9.80E-06	1.12E-03	1.13E-03	0.00E+00	5.43E-02	9.67E-03	3.42E-02	1.22E-02
COMM	Closure-Base	Cobalt	2.96E-02	0.00E+00	1.83E-03	1.83E-03	0.00E+00	1.83E-02	1.83E-02	4.57E-09	0.00E+00	3.06E-06	4.91E-05	5.22E-05	4.75E-06	3.51E-05	3.98E-05	1.66E-06	3.06E-06	1.32E-04	1.35E-04	0.00E+00	7.89E-04	2.16E-02	4.35E-03	4.87E-03
COMM	Closure-Base	Iron	3.22E+02	0.00E+00	1.99E+01	1.99E+01	0.00E+00	1.99E+02	1.99E+02	4.98E-05	0.00E+00	9.11E-03	5.35E-01	5.44E-01	1.03E-02	3.82E-01	3.93E-01	2.59E-03	9.11E-03	1.44E+00	1.45E+00	0.00E+00	2.28E+01	3.50E+01	2.12E+01	2.01E+01
COMM	Closure-Base	Lead	2.68E-02	0.00E+00	1.65E-03	1.65E-03	0.00E+00	1.65E-02	1.65E-02	4.13E-09	0.00E+00	2.92E-06	4.45E-05	4.74E-05	2.92E-06	3.18E-05	3.47E-05	1.93E-06	2.92E-06	1.20E-04	1.23E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
COMM	Closure-Base	Manganese	7.09E+00	0.00E+00	4.38E-01	4.38E-01	0.00E+00	4.38E+00	4.38E+00	1.09E-06	0.00E+00	3.57E-02	1.18E-02	4.75E-02	1.42E-02	8.41E-03	2.26E-02	2.85E-03	3.57E-02	3.17E-02	6.75E-02	0.00E+00	6.07E-01	7.58E-03	1.56E+00	1.62E-02
COMM	Closure-Base	Mercury	7.06E-05	0.00E+00	4.36E-06	4.36E-06	0.00E+00	4.36E-05	4.36E-05	1.09E-11	0.00E+00	8.72E-07	1.17E-07	9.89E-07	5.10E-07	8.38E-08	5.94E-07	1.13E-07	8.72E-07	3.16E-07	1.19E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
COMM	Closure-Base	Molybdenum	3.16E-02	0.00E+00	1.95E-03	1.95E-03	0.00E+00	1.95E-02	1.95E-02	4.88E-09	0.00E+00	1.30E-04	5.25E-05	1.82E-04	6.34E-05	3.75E-05	1.01E-04	1.52E-05	1.30E-04	1.41E-04	2.71E-04	0.00E+00	3.00E-02	7.25E-02	5.38E-02	1.48E-02
COMM	Closure-Base	Selenium	3.07E-03	0.00E+00	1.89E-04	1.89E-04	0.00E+00	1.89E-03	1.89E-03	4.74E-10	0.00E+00	4.80E-07	5.09E-06	5.57E-06	4.80E-07	3.64E-06	4.12E-06	5.42E-07	4.80E-07	1.37E-05	1.42E-05	0.00E+00	3.33E-02	1.38E+00	4.83E-02	1.11E-01
URBN	Closure-Base	Arsenic	1.23E-02	0.00E+00	7.60E-04	7.60E-04	0.00E+00	7.60E-03	7.60E-03	5.78E-12	0.00E+00	6.26E-07	2.05E-05	2.11E-05	6.26E-07	1.46E-05	1.52E-05	7.91E-07	6.26E-07	5.51E-05	5.57E-05	0.00E+00	1.51E-03	5.40E-02	2.05E-03	1.46E-03
URBN	Closure-Base	Barium	1.05E+00	0.00E+00	6.48E-02	6.48E-02	0.00E+00	6.48E-01	6.48E-01	4.92E-10	0.00E+00	2.71E-04	1.74E-03	2.01E-03	2.71E-04	1.24E-03	1.52E-03	1.26E-04	2.71E-04	4.69E-03	4.97E-03	0.00E+00	3.11E-05	3.42E-05	1.04E-04	5.15E-03
URBN	Closure-Base	Beryllium	4.12E-03	0.00E+00	2.54E-04	2.54E-04	0.00E+00	2.54E-03	2.54E-03	1.93E-12	0.00E+00	8.53E-08	6.84E-06	6.92E-06	8.53E-08	4.89E-06	4.97E-06	4.96E-08	8.53E-08	1.84E-05	1.85E-05	0.00E+00	1.97E-06	1.46E-06	5.90E-06	4.20E-04
URBN	Closure-Base	Chromium	2.99E-01	0.00E+00	1.85E-02	1.85E-02	0.00E+00	1.85E-01	1.85E-01	1.40E-10	0.00E+00	1.17E-05	4.97E-04	5.09E-04	1.17E-05	3.55E-04	3.67E-04	1.08E-05	1.17E-05	1.34E-03	1.35E-03	0.00E+00	5.43E-02	9.67E-03	3.42E-02	1.22E-02
URBN	Closure-Base	Cobalt	3.54E-02	0.00E+00	2.18E-03	2.18E-03	0.00E+00	2.18E-02	2.18E-02	1.66E-11	0.00E+00	3.66E-06	5.88E-05	6.24E-05	5.68E-06	4.20E-05	4.77E-05	1.99E-06	3.66E-06	1.58E-04	1.62E-04	0.00E+00	7.89E-04	2.16E-02	4.35E-03	4.87E-03
URBN	Closure-Base	Iron	3.85E+02	0.00E+00	2.38E+01	2.38E+01	0.00E+00	2.38E+02	2.38E+02	1.81E-07	0.00E+00	1.09E-02	6.40E-01	6.51E-01	1.24E-02	4.58E-01	4.70E-01	3.09E-03	1.09E-02	1.73E+00	1.74E+00	0.00E+00	2.28E+01	3.50E+01	2.12E+01	2.01E+01
URBN	Closure-Base	Lead	3.20E-02	0.00E+00	1.98E-03	1.98E-03	0.00E+00	1.98E-02	1.98E-02	1.50E-11	0.00E+00	3.50E-06	5.32E-05	5.67E-05	3.50E-06	3.80E-05	4.15E-05	2.31E-06	3.50E-06	1.43E-04	1.47E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
URBN	Closure-Base	Manganese	8.48E+00	0.00E+00	5.24E-01	5.24E-01	0.00E+00	5.24E+00	5.24E+00	3.98E-09	0.00E+00	4.28E-02	1.41E-02	5.68E-02	1.70E-02	1.01E-02	2.71E-02	3.40E-03	4.28E-02	3.80E-02	8.07E-02	0.00E+00	6.07E-01	7.58E-03	1.56E+00	1.62E-02
URBN	Closure-Base	Mercury	8.44E-05	0.00E+00	5.21E-06	5.21E-06	0.00E+00	5.21E-05	5.21E-05	3.96E-14	0.00E+00	1.04E-06	1.40E-07	1.18E-06	6.10E-07	1.00E-07	7.10E-07	1.36E-07	1.04E-06	3.78E-07	1.42E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
URBN	Closure-Base	Molybdenum	3.78E-02	0.00E+00	2.33E-03	2.33E-03	0.00E+00	2.33E-02	2.33E-02	1.77E-11	0.00E+00	1.55E-04	6.28E-05	2.18E-04	7.58E-05	4.48E-05	1.21E-04	1.82E-05	1.55E-04	1.69E-04	3.24E-04	0.00E+00	3.00E-02	7.25E-02	5.38E-02	1.48E-02
URBN	Closure-Base	Selenium	3.67E-03	0.00E+00	2.27E-04	2.27E-04	0.00E+00	2.27E-03	2.27E-03	1.72E-12	0.00E+00	5.74E-07	6.09E-06	6.67E-06	5.74E-07	4.35E-06	4.93E-06	6.48E-07	5.74E-07	1.64E-05	1.70E-05	0.00E+00	3.33E-02	1.38E+00	4.83E-02	1.11E-01

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
RESI	Post Closure-Base	Arsenic	7.12E-02	0.00E+00	4.39E-03	4.39E-03	0.00E+00	4.39E-02	4.39E-02	3.34E-11	0.00E+00	3.62E-06	1.18E-04	1.22E-04	3.62E-06	8.45E-05	8.81E-05	4.57E-06	3.62E-06	3.19E-04	3.22E-04	0.00E+00	1.51E-03	9.37E-02	2.06E-03	1.85E-03
RESI	Post Closure-Base	Barium	6.06E+00	0.00E+00	3.74E-01	3.74E-01	0.00E+00	3.74E+00	3.74E+00	2.84E-09	2.70E-03	1.57E-03	1.01E-02	1.16E-02	1.57E-03	7.19E-03	8.76E-03	7.30E-04	1.57E-03	2.71E-02	2.87E-02	7.79E-02	3.11E-05	5.51E-05	1.04E-04	5.65E-03
RESI	Post Closure-Base	Beryllium	2.38E-02	0.00E+00	1.47E-03	1.47E-03	0.00E+00	1.47E-02	1.47E-02	1.12E-11	0.00E+00	4.93E-07	3.95E-05	4.00E-05	4.93E-07	2.82E-05	2.87E-05	2.87E-07	4.93E-07	1.07E-04	1.07E-04	0.00E+00	1.97E-06	1.34E-06	5.89E-06	4.15E-04
RESI	Post Closure-Base	Chromium	1.73E+00	0.00E+00	1.07E-01	1.07E-01	0.00E+00	1.07E+00	1.07E+00	8.12E-10	0.00E+00	6.78E-05	2.87E-03	2.94E-03	6.78E-05	2.05E-03	2.12E-03	6.25E-05	6.78E-05	7.74E-03	7.81E-03	0.00E+00	5.43E-02	5.08E-03	3.42E-02	9.39E-03
RESI	Post Closure-Base	Cobalt	2.04E-01	0.00E+00	1.26E-02	1.26E-02	0.00E+00	1.26E-01	1.26E-01	9.60E-11	0.00E+00	2.11E-05	3.40E-04	3.61E-04	3.28E-05	2.43E-04	2.75E-04	1.15E-05	2.11E-05	9.15E-04	9.36E-04	0.00E+00	7.86E-04	1.65E-02	4.34E-03	4.53E-03
RESI	Post Closure-Base	Iron	2.23E+03	0.00E+00	1.38E+02	1.38E+02	0.00E+00	1.38E+03	1.38E+03	1.05E-06	7.71E-02	6.30E-02	3.70E+00	3.76E+00	7.15E-02	2.64E+00	2.72E+00	1.79E-02	6.30E-02	9.97E+00	1.00E+01	1.56E+01	2.28E+01	4.65E+01	2.12E+01	2.18E+01
RESI	Post Closure-Base	Lead	1.85E-01	0.00E+00	1.14E-02	1.14E-02	0.00E+00	1.14E-01	1.14E-01	8.69E-11	0.00E+00	2.02E-05	3.07E-04	3.28E-04	2.02E-05	2.20E-04	2.40E-04	1.34E-05	2.02E-05	8.29E-04	8.49E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
RESI	Post Closure-Base	Manganese	4.90E+01	0.00E+00	3.03E+00	3.03E+00	0.00E+00	3.03E+01	3.03E+01	2.30E-08	5.38E-02	2.47E-01	8.14E-02	3.28E-01	9.84E-02	5.82E-02	1.57E-01	1.97E-02	2.47E-01	2.19E-01	4.66E-01	2.20E+00	6.07E-01	1.28E-01	1.56E+00	5.80E-02
RESI	Post Closure-Base	Mercury	4.88E-04	0.00E+00	3.01E-05	3.01E-05	0.00E+00	3.01E-04	3.01E-04	2.29E-13	0.00E+00	6.03E-06	8.11E-07	6.84E-06	3.53E-06	5.79E-07	4.11E-06	7.84E-07	6.03E-06	2.18E-06	8.21E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
RESI	Post Closure-Base	Molybdenum	2.18E-01	0.00E+00	1.35E-02	1.35E-02	0.00E+00	1.35E-01	1.35E-01	1.02E-10	8.15E-04	8.95E-04	3.63E-04	1.26E-03	4.38E-04	2.59E-04	6.97E-04	1.05E-04	8.95E-04	9.77E-04	1.87E-03	1.05E-01	3.01E-02	1.62E-01	5.40E-02	3.11E-02
RESI	Post Closure-Base	Selenium	2.12E-02	0.00E+00	1.31E-03	1.31E-03	0.00E+00	1.31E-02	1.31E-02	9.95E-12	0.00E+00	3.32E-06	3.52E-05	3.85E-05	3.32E-06	2.52E-05	2.85E-05	3.74E-06	3.32E-06	9.49E-05	9.82E-05	0.00E+00	3.41E-02	4.67E+00	4.96E-02	3.59E-01
RECR	Post Closure-Base	Arsenic	7.12E-02	0.00E+00	4.39E-03	4.39E-03	0.00E+00	4.39E-02	4.39E-02	3.34E-11	0.00E+00	3.62E-06	1.18E-04	1.22E-04	3.62E-06	8.45E-05	8.81E-05	4.57E-06	3.62E-06	3.19E-04	3.22E-04	0.00E+00	1.51E-03	9.37E-02	2.06E-03	1.85E-03
RECR	Post Closure-Base	Barium	6.06E+00	0.00E+00	3.74E-01	3.74E-01	0.00E+00	3.74E+00	3.74E+00	2.84E-09	2.70E-03	1.57E-03	1.01E-02	1.16E-02	1.57E-03	7.19E-03	8.76E-03	7.30E-04	1.57E-03	2.71E-02	2.87E-02	7.79E-02	3.11E-05	5.51E-05	1.04E-04	5.65E-03
RECR	Post Closure-Base	Beryllium	2.38E-02	0.00E+00	1.47E-03	1.47E-03	0.00E+00	1.47E-02	1.47E-02	1.12E-11	0.00E+00	4.93E-07	3.95E-05	4.00E-05	4.93E-07	2.82E-05	2.87E-05	2.87E-07	4.93E-07	1.07E-04	1.07E-04	0.00E+00	1.97E-06	1.34E-06	5.89E-06	4.15E-04
RECR	Post Closure-Base	Chromium	1.73E+00	0.00E+00	1.07E-01	1.07E-01	0.00E+00	1.07E+00	1.07E+00	8.12E-10	0.00E+00	6.78E-05	2.87E-03	2.94E-03	6.78E-05	2.05E-03	2.12E-03	6.25E-05	6.78E-05	7.74E-03	7.81E-03	0.00E+00	5.43E-02	5.08E-03	3.42E-02	9.39E-03
RECR	Post Closure-Base	Cobalt	2.04E-01	0.00E+00	1.26E-02	1.26E-02	0.00E+00	1.26E-01	1.26E-01	9.60E-11	0.00E+00	2.11E-05	3.40E-04	3.61E-04	3.28E-05	2.43E-04	2.75E-04	1.15E-05	2.11E-05	9.15E-04	9.36E-04	0.00E+00	7.86E-04	1.65E-02	4.34E-03	4.53E-03
RECR	Post Closure-Base	Iron	2.23E+03	0.00E+00	1.38E+02	1.38E+02	0.00E+00	1.38E+03	1.38E+03	1.05E-06	7.71E-02	6.30E-02	3.70E+00	3.76E+00	7.15E-02	2.64E+00	2.72E+00	1.79E-02	6.30E-02	9.97E+00	1.00E+01	1.56E+01	2.28E+01	4.65E+01	2.12E+01	2.18E+01
RECR	Post Closure-Base	Lead	1.85E-01	0.00E+00	1.14E-02	1.14E-02	0.00E+00	1.14E-01	1.14E-01	8.69E-11	0.00E+00	2.02E-05	3.07E-04	3.28E-04	2.02E-05	2.20E-04	2.40E-04	1.34E-05	2.02E-05	8.29E-04	8.49E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
RECR	Post Closure-Base	Manganese	4.90E+01	0.00E+00	3.03E+00	3.03E+00	0.00E+00	3.03E+01	3.03E+01	2.30E-08	5.38E-02	2.47E-01	8.14E-02	3.28E-01	9.84E-02	5.82E-02	1.57E-01	1.97E-02	2.47E-01	2.19E-01	4.66E-01	2.20E+00	6.07E-01	1.28E-01	1.56E+00	5.80E-02
RECR	Post Closure-Base	Mercury	4.88E-04	0.00E+00	3.01E-05	3.01E-05	0.00E+00	3.01E-04	3.01E-04	2.29E-13	0.00E+00	6.03E-06	8.11E-07	6.84E-06	3.53E-06	5.79E-07	4.11E-06	7.84E-07	6.03E-06	2.18E-06	8.21E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
RECR	Post Closure-Base	Molybdenum	2.18E-01	0.00E+00	1.35E-02	1.35E-02	0.00E+00	1.35E-01	1.35E-01	1.02E-10	8.15E-04	8.95E-04	3.63E-04	1.26E-03	4.38E-04	2.59E-04	6.97E-04	1.05E-04	8.95E-04	9.77E-04	1.87E-03	1.05E-01	3.01E-02	1.62E-01	5.40E-02	3.11E-02
RECR	Post Closure-Base	Selenium	2.12E-02	0.00E+00	1.31E-03	1.31E-03	0.00E+00	1.31E-02	1.31E-02	9.95E-12	0.00E+00	3.32E-06	3.52E-05	3.85E-05	3.32E-06	2.52E-05	2.85E-05	3.74E-06	3.32E-06	9.49E-05	9.82E-05	0.00E+00	3.41E-02	4.67E+00	4.96E-02	3.59E-01
COMM	Post Closure-Base	Arsenic	1.03E-02	0.00E+00	6.36E-04	6.36E-04	0.00E+00	6.36E-03	6.36E-03	1.59E-09	0.00E+00	5.23E-07	1.71E-05	1.76E-05	5.23E-07	1.22E-05	1.27E-05	6.61E-07	5.23E-07	4.61E-05	4.66E-05	0.00E+00	1.51E-03	9.37E-02	2.06E-03	1.85E-03
COMM	Post Closure-Base	Barium	8.77E-01	0.00E+00	5.41E-02	5.41E-02	0.00E+00	5.41E-01	5.41E-01	1.35E-07	0.00E+00	2.27E-04	1.46E-03	1.68E-03	2.27E-04	1.04E-03	1.27E-03	1.06E-04	2.27E-04	3.92E-03	4.15E-03	0.00E+00	3.11E-05	5.51E-05	1.04E-04	5.65E-03
COMM	Post Closure-Base	Beryllium	3.44E-03	0.00E+00	2.13E-04	2.13E-04	0.00E+00	2.13E-03	2.13E-03	5.31E-10	0.00E+00	7.13E-08	5.72E-06	5.79E-06	7.13E-08	4.09E-06	4.16E-06	4.15E-08	7.13E-08	1.54E-05	1.55E-05	0.00E+00	1.97E-06	1.34E-06	5.89E-06	4.15E-04
COMM	Post Closure-Base	Chromium	2.50E-01	0.00E+00	1.55E-02	1.55E-02	0.00E+00	1.55E-01	1.55E-01	3.86E-08	0.00E+00	9.80E-06	4.16E-04	4.25E-04	9.80E-06	2.97E-04	3.07E-04	9.04E-06	9.80E-06	1.12E-03	1.13E-03	0.00E+00	5.43E-02	5.08E-03	3.42E-02	9.39E-03
COMM	Post Closure-Base	Cobalt	2.96E-02	0.00E+00	1.83E-03	1.83E-03	0.00E+00	1.83E-02	1.83E-02	4.57E-09	0.00E+00	3.06E-06	4.91E-05	5.22E-05	4.75E-06	3.51E-05	3.98E-05	1.66E-06	3.06E-06	1.32E-04	1.35E-04	0.00E+00	7.86E-04	1.65E-02	4.34E-03	4.53E-03
COMM	Post Closure-Base	Iron	3.22E+02	0.00E+00	1.99E+01	1.99E+01	0.00E+00	1.99E+02	1.99E+02	4.98E-05	0.00E+00	9.11E-03	5.35E-01	5.44E-01	1.03E-02	3.82E-01	3.93E-01	2.59E-03	9.11E-03	1.44E+00	1.45E+00	0.00E+00	2.28E+01	4.65E+01	2.12E+01	2.18E+01
COMM	Post Closure-Base	Lead	2.68E-02	0.00E+00	1.65E-03	1.65E-03	0.00E+00	1.65E-02	1.65E-02	4.13E-09	0.00E+00	2.92E-06	4.45E-05	4.74E-05	2.92E-06	3.18E-05	3.47E-05	1.93E-06	2.92E-06	1.20E-04	1.23E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
COMM	Post Closure-Base	Manganese	7.09E+00	0.00E+00	4.38E-01	4.38E-01	0.00E+00	4.38E+00	4.38E+00	1.09E-06	0.00E+00	3.57E-02	1.18E-02	4.75E-02	1.42E-02	8.41E-03	2.26E-02	2.85E-03	3.57E-02	3.17E-02	6.75E-02	0.00E+00	6.07E-01	1.28E-01	1.56E+00	5.80E-02
COMM	Post Closure-Base	Mercury	7.06E-05	0.00E+00	4.36E-06	4.36E-06	0.00E+00	4.36E-05	4.36E-05	1.09E-11	0.00E+00	8.72E-07	1.17E-07	9.89E-07	5.10E-07	8.38E-08	5.94E-07	1.13E-07	8.72E-07	3.16E-07	1.19E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
COMM	Post Closure-Base	Molybdenum	3.16E-02	0.00E+00	1.95E-03	1.95E-03	0.00E+00	1.95E-02	1.95E-02	4.88E-09	0.00E+00	1.30E-04	5.25E-05	1.82E-04	6.34E-05	3.75E-05	1.01E-04	1.52E-05	1.30E-04	1.41E-04	2.71E-04	0.00E+00	3.01E-02	1.62E-01	5.40E-02	3.11E-02
COMM	Post Closure-Base	Selenium	3.07E-03	0.00E+00	1.89E-04	1.89E-04	0.00E+00	1.89E-03	1.89E-03	4.74E-10	0.00E+00	4.80E-07	5.09E-06	5.57E-06	4.80E-07	3.64E-06	4.12E-06	5.42E-07	4.80E-07	1.37E-05	1.42E-05	0.00E+00	3.41E-02	4.67E+00	4.96E-02	3.59E-01
URBN	Post Closure-Base	Arsenic	1.23E-02	0.00E+00	7.60E-04	7.60E-04	0.00E+00	7.60E-03	7.60E-03	5.78E-12	0.00E+00	6.26E-07	2.05E-05	2.11E-05	6.26E-07	1.46E-05	1.52E-05	7.91E-07	6.26E-07	5.51E-05	5.57E-05	0.00E+00	1.51E-03	9.37E-02	2.06E-03	1.85E-03
URBN	Post Closure-Base	Barium	1.05E+00	0.00E+00	6.48E-02	6.48E-02	0.00E+00	6.48E-01	6.48E-01	4.92E-10	0.00E+00	2.71E-04	1.74E-03	2.01E-03	2.71E-04	1.24E-03	1.52E-03	1.26E-04	2.71E-04	4.69E-03	4.97E-03	0.00E+00	3.11E-05	5.51E-05	1.04E-04	5.65E-03
URBN	Post Closure-Base	Beryllium	4.12E-03	0.00E+00	2.54E-04	2.54E-04	0.00E+00	2.54E-03	2.54E-03	1.93E-12	0.00E+00	8.53E-08	6.84E-06	6.92E-06	8.53E-08	4.89E-06	4.97E-06	4.96E-08	8.53E-08	1.84E-05	1.85E-05	0.00E+00	1.97E-06	1.34E-06	5.89E-06	4.15E-04
URBN	Post Closure-Base	Chromium	2.99E-01	0.00E+00	1.85E-02	1.85E-02	0.00E+00	1.85E-01	1.85E-01	1.40E-10	0.00E+00	1.17E-05	4.97E-04	5.09E-04	1.17E-05	3.55E-04	3.67E-04	1.08E-05	1.17E-05	1.34E-03	1.35E-03	0.00E+00	5.43E-02	5.08E-03	3.42E-02	9.39E-03
URBN	Post Closure-Base	Cobalt	3.54E-02	0.00E+00	2.18E-03	2.18E-03	0.00E+00	2.18E-02	2.18E-02	1.66E-11	0.00E+00	3.66E-06	5.88E-05	6.24E-05	5.68E-06	4.20E-05	4.77E-05	1.99E-06	3.66E-06	1.58E-04	1.62E-04	0.00E+00	7.86E-04	1.65E-02	4.34E-03	4.53E-03
URBN	Post Closure-Base	Iron	3.85E+02	0.00E+00	2.38E+01	2.38E+01	0.00E+00	2.38E+02	2.38E+02	1.81E-07	0.00E+00	1.09E-02	6.40E-01	6.51E-01	1.24E-02	4.58E-01	4.70E-01	3.09E-03	1.09E-02	1.73E+00	1.74E+00	0.00E+00	2.28E+01	4.65E+01	2.12E+01	2.18E+01
URBN	Post Closure-Base	Lead	3.20E-02	0.00E+00	1.98E-03	1.98E-03	0.00E+00	1.98E-02	1.98E-02	1.50E-11	0.00E+00	3.50E-06	5.32E-05	5.67E-05	3.50E-06	3.80E-05	4.15E-05	2.31E-06	3.50E-06	1.43E-04	1.47E-04	0.00E+00	2.98E-06	1.01E-03	6.51E-03	4.56E-03
URBN	Post Closure-Base	Manganese	8.48E+00	0.00E+00	5.24E-01	5.24E-01	0.00E+00	5.24E+00	5.24E+00	3.98E-09	0.00E+00	4.28E-02	1.41E-02	5.68E-02	1.70E-02	1.01E-02	2.71E-02	3.40E-03	4.28E-02	3.80E-02	8.07E-02	0.00E+00	6.07E-01	1.28E-01	1.56E+00	5.80E-02
URBN	Post Closure-Base	Mercury	8.44E-05	0.00E+00	5.21E-06	5.21E-06	0.00E+00	5.21E-05	5.21E-05	3.96E-14	0.00E+00	1.04E-06	1.40E-07	1.18E-06	6.10E-07	1.00E-07	7.10E-07	1.36E-07	1.04E-06	3.78E-07	1.42E-06	0.00E+00	5.56E-04	2.48E-04	5.74E-04	5.97E-05
URBN	Post Closure-Base	Molybdenum	3.78E-02	0.00E+00	2.33E-03	2.33E-03	0.00E+00	2.33E-02	2.33E-02	1.77E-11	0.00E+00	1.55E-04	6.28E-05	2.18E-04	7.58E-05	4.48E-05	1.21E-04	1.82E-05	1.55E-04	1.69E-04	3.24E-04	0.00E+00	3.01E-02	1.62E-01	5.40E-02	3.11E-02
URBN	Post Closure-Base	Selenium	3.67E-03	0.00E+00	2.27E-04	2.27E-04	0.00E+00	2.27E-03	2.27E-03	1.72E-12	0.00E+00	5.74E-07	6.09E-06	6.67E-06	5.74E-07	4.35E-06	4.93E-06	6.48E-07	5.74E-07	1.64E-05	1.70E-05	0.00E+00	3.41E-02	4.67E+00	4.96E-02	3.59E-01

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
Inorganic Mercury																										
RESI	Base	MercuryIng	0.00E+00	4.93E-02	0.00E+00	4.93E-02	4.93E-02	0.00E+00	4.93E-02	3.74E-11	3.28E-05	9.64E-03	0.00E+00	9.64E-03	5.74E-03	0.00E+00	5.74E-03	1.28E-03	9.81E-03	0.00E+00	9.81E-03	8.57E-02	5.00E-04	3.75E-02	2.50E-03	1.00E-03
RESI	Project	MercuryIng	0.00E+00	4.93E-02	2.97E-05	4.93E-02	4.93E-02	2.97E-04	4.95E-02	3.77E-11	3.09E-05	9.65E-03	7.81E-07	9.65E-03	5.74E-03	5.68E-07	5.74E-03	1.28E-03	9.82E-03	2.14E-06	9.82E-03	8.08E-02	5.01E-04	3.72E-02	2.51E-03	9.93E-04
RESI	Closure	MercuryIng	0.00E+00	4.93E-02	2.97E-05	4.93E-02	4.93E-02	2.97E-04	4.95E-02	3.77E-11	3.10E-05	9.65E-03	7.81E-07	9.65E-03	5.74E-03	5.68E-07	5.74E-03	1.28E-03	9.82E-03	2.14E-06	9.82E-03	8.09E-02	5.01E-04	3.72E-02	2.51E-03	9.94E-04
RESI	Post Closure	MercuryIng	0.00E+00	4.93E-02	2.97E-05	4.93E-02	4.93E-02	2.97E-04	4.95E-02	3.77E-11	2.98E-05	9.65E-03	7.81E-07	9.65E-03	5.74E-03	5.68E-07	5.74E-03	1.28E-03	9.82E-03	2.14E-06	9.82E-03	7.79E-02	5.01E-04	3.68E-02	2.51E-03	9.84E-04
RECR	Base	MercuryIng	0.00E+00	4.93E-02	0.00E+00	4.93E-02	4.93E-02	0.00E+00	4.93E-02	3.74E-11	3.28E-05	9.64E-03	0.00E+00	9.64E-03	5.74E-03	0.00E+00	5.74E-03	1.28E-03	9.81E-03	0.00E+00	9.81E-03	8.57E-02	5.00E-04	3.75E-02	2.50E-03	1.00E-03
RECR	Project	MercuryIng	0.00E+00	4.93E-02	2.97E-05	4.93E-02	4.93E-02	2.97E-04	4.95E-02	3.77E-11	3.09E-05	9.65E-03	7.81E-07	9.65E-03	5.74E-03	5.68E-07	5.74E-03	1.28E-03	9.82E-03	2.14E-06	9.82E-03	8.08E-02	5.01E-04	3.72E-02	2.51E-03	9.93E-04
RECR	Closure	MercuryIng	0.00E+00	4.93E-02	2.97E-05	4.93E-02	4.93E-02	2.97E-04	4.95E-02	3.77E-11	3.10E-05	9.65E-03	7.81E-07	9.65E-03	5.74E-03	5.68E-07	5.74E-03	1.28E-03	9.82E-03	2.14E-06	9.82E-03	8.09E-02	5.01E-04	3.72E-02	2.51E-03	9.94E-04
RECR	Post Closure	MercuryIng	0.00E+00	4.93E-02	2.97E-05	4.93E-02	4.93E-02	2.97E-04	4.95E-02	3.77E-11	2.98E-05	9.65E-03	7.81E-07	9.65E-03	5.74E-03	5.68E-07	5.74E-03	1.28E-03	9.82E-03	2.14E-06	9.82E-03	7.79E-02	5.01E-04	3.68E-02	2.51E-03	9.84E-04
URBN	Base	MercuryIng	0.00E+00	4.93E-02	0.00E+00	4.93E-02	4.93E-02	0.00E+00	4.93E-02	3.74E-11	0.00E+00	9.64E-03	0.00E+00	9.64E-03	5.74E-03	0.00E+00	5.74E-03	1.28E-03	9.81E-03	0.00E+00	9.81E-03	0.00E+00	5.00E-04	3.75E-02	2.50E-03	1.00E-03
URBN	Project	MercuryIng	0.00E+00	4.93E-02	5.14E-06	4.93E-02	4.93E-02	5.14E-05	4.93E-02	3.75E-11	0.00E+00	9.64E-03	1.35E-07	9.64E-03	5.74E-03	9.83E-08	5.74E-03	1.28E-03	9.81E-03	3.71E-07	9.81E-03	0.00E+00	5.01E-04	3.72E-02	2.51E-03	9.93E-04
URBN	Closure	MercuryIng	0.00E+00	4.93E-02	5.14E-06	4.93E-02	4.93E-02	5.14E-05	4.93E-02	3.75E-11	0.00E+00	9.64E-03	1.35E-07	9.64E-03	5.74E-03	9.83E-08	5.74E-03	1.28E-03	9.81E-03	3.71E-07	9.81E-03	0.00E+00	5.01E-04	3.72E-02	2.51E-03	9.94E-04
URBN	Post Closure	MercuryIng	0.00E+00	4.93E-02	5.14E-06	4.93E-02	4.93E-02	5.14E-05	4.93E-02	3.75E-11	0.00E+00	9.64E-03	1.35E-07	9.64E-03	5.74E-03	9.83E-08	5.74E-03	1.28E-03	9.81E-03	3.71E-07	9.81E-03	0.00E+00	5.01E-04	3.68E-02	2.51E-03	9.84E-04
COMM	Base	MercuryIng	0.00E+00	4.93E-02	0.00E+00	4.93E-02	4.93E-02	0.00E+00	4.93E-02	1.23E-08	0.00E+00	9.64E-03	0.00E+00	9.64E-03	5.74E-03	0.00E+00	5.74E-03	1.28E-03	9.81E-03	0.00E+00	9.81E-03	0.00E+00	5.00E-04	3.75E-02	2.50E-03	1.00E-03
COMM	Project	MercuryIng	0.00E+00	4.93E-02	4.29E-06	4.93E-02	4.93E-02	4.29E-05	4.93E-02	1.23E-08	0.00E+00	9.64E-03	1.13E-07	9.64E-03	5.74E-03	8.22E-08	5.74E-03	1.28E-03	9.81E-03	3.10E-07	9.81E-03	0.00E+00	5.01E-04	3.72E-02	2.51E-03	9.93E-04
COMM	Closure	MercuryIng	0.00E+00	4.93E-02	4.29E-06	4.93E-02	4.93E-02	4.29E-05	4.93E-02	1.23E-08	0.00E+00	9.64E-03	1.13E-07	9.64E-03	5.74E-03	8.22E-08	5.74E-03	1.28E-03	9.81E-03	3.10E-07	9.81E-03	0.00E+00	5.01E-04	3.72E-02	2.51E-03	9.94E-04
COMM	Post Closure	MercuryIng	0.00E+00	4.93E-02	4.29E-06	4.93E-02	4.93E-02	4.29E-05	4.93E-02	1.23E-08	0.00E+00	9.64E-03	1.13E-07	9.64E-03	5.74E-03	8.22E-08	5.74E-03	1.28E-03	9.81E-03	3.10E-07	9.81E-03	0.00E+00	5.01E-04	3.68E-02	2.51E-03	9.84E-04
RESI	Project-Base	MercuryIng	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	2.97E-04	2.26E-13	0.00E+00	5.81E-06	7.81E-07	6.59E-06	3.46E-06	5.68E-07	4.03E-06	7.69E-07	5.91E-06	2.14E-06	8.06E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
RESI	Closure-Base	MercuryIng	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	2.97E-04	2.26E-13	0.00E+00	5.81E-06	7.81E-07	6.59E-06	3.46E-06	5.68E-07	4.03E-06	7.69E-07	5.91E-06	2.14E-06	8.06E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
RESI	Post Closure-Base	MercuryIng	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	2.97E-04	2.26E-13	0.00E+00	5.81E-06	7.81E-07	6.59E-06	3.46E-06	5.68E-07	4.03E-06	7.69E-07	5.91E-06	2.14E-06	8.06E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
RECR	Project-Base	MercuryIng	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	2.97E-04	2.26E-13	0.00E+00	5.81E-06	7.81E-07	6.59E-06	3.46E-06	5.68E-07	4.03E-06	7.69E-07	5.91E-06	2.14E-06	8.06E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
RECR	Closure-Base	MercuryIng	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	2.97E-04	2.26E-13	0.00E+00	5.81E-06	7.81E-07	6.59E-06	3.46E-06	5.68E-07	4.03E-06	7.69E-07	5.91E-06	2.14E-06	8.06E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
RECR	Post Closure-Base	MercuryIng	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	2.97E-04	2.26E-13	0.00E+00	5.81E-06	7.81E-07	6.59E-06	3.46E-06	5.68E-07	4.03E-06	7.69E-07	5.91E-06	2.14E-06	8.06E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
URBN	Project-Base	MercuryIng	0.00E+00	0.00E+00	5.14E-06	5.14E-06	0.00E+00	5.14E-05	5.14E-05	3.90E-14	0.00E+00	1.01E-06	1.35E-07	1.14E-06	5.99E-07	9.83E-08	6.97E-07	1.33E-07	1.02E-06	3.71E-07	1.39E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
URBN	Closure-Base	MercuryIng	0.00E+00	0.00E+00	5.14E-06	5.14E-06	0.00E+00	5.14E-05	5.14E-05	3.90E-14	0.00E+00	1.01E-06	1.35E-07	1.14E-06	5.99E-07	9.83E-08	6.97E-07	1.33E-07	1.02E-06	3.71E-07	1.39E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
URBN	Post Closure-Base	MercuryIng	0.00E+00	0.00E+00	5.14E-06	5.14E-06	0.00E+00	5.14E-05	5.14E-05	3.90E-14	0.00E+00	1.01E-06	1.35E-07	1.14E-06	5.99E-07	9.83E-08	6.97E-07	1.33E-07	1.02E-06	3.71E-07	1.39E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
COMM	Project-Base	MercuryIng	0.00E+00	0.00E+00	4.29E-06	4.29E-06	0.00E+00	4.29E-05	4.29E-05	1.07E-11	0.00E+00	8.41E-07	1.13E-07	9.54E-07	5.00E-07	8.22E-08	5.83E-07	1.11E-07	8.55E-07	3.10E-07	1.17E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
COMM	Closure-Base	MercuryIng	0.00E+00	0.00E+00	4.29E-06	4.29E-06	0.00E+00	4.29E-05	4.29E-05	1.07E-11	0.00E+00	8.41E-07	1.13E-07	9.54E-07	5.00E-07	8.22E-08	5.83E-07	1.11E-07	8.55E-07	3.10E-07	1.17E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06
COMM	Post Closure-Base	MercuryIng	0.00E+00	0.00E+00	4.29E-06	4.29E-06	0.00E+00	4.29E-05	4.29E-05	1.07E-11	0.00E+00	8.41E-07	1.13E-07	9.54E-07	5.00E-07	8.22E-08	5.83E-07	1.11E-07	8.55E-07	3.10E-07	1.17E-06	0.00E+00	1.39E-04	6.19E-05	1.43E-04	5.97E-06

Table 1-1: Exposure Point Concentrations Used to Predict Human Exposure

			Q	*Soil-base*	*Soil-dep*	*Soil-total*	*Soil-base*	*Soil-dep*	*Soil-total*	*Cs x Pair*	*Cw*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-dep*	*Plant-total*	*Plant-soil*	*Plant-total*	*Plant-dep*	*Plant-total*					
			Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Berry	Berry	Berry	AG_Plant	AG_Plant	AG_Plant	BG_Plant	TradPlant	TradPlant	TradPlant	Fish	Grouse	Mallard	Hare	Moose
			Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Soil	Deposition	Total	Soil	Deposition	Total	Soil	Soil	Deposition	Total	SW	Grouse	Mallard	Hare	Moose
Receptor	Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]	[mg/kg-WW]
MercuryMethyl																										
RESI	Base	MercuryMethyl	0.00E+00	7.50E-04	0.00E+00	4.93E-02	4.93E-02	0.00E+00	7.50E-04	5.70E-13	3.64E-06	3.60E-04	0.00E+00	3.60E-04	1.11E-04	0.00E+00	1.11E-04	2.47E-05	1.90E-04	0.00E+00	1.90E-04	4.85E-01	1.50E-03	1.13E-01	7.50E-03	9.00E-03
RESI	Project	MercuryMethyl	0.00E+00	7.50E-04	2.97E-05	4.93E-02	4.93E-02	2.97E-04	7.55E-04	5.73E-13	3.43E-06	3.60E-04	2.92E-08	3.60E-04	1.11E-04	1.10E-08	1.11E-04	2.47E-05	1.90E-04	4.15E-08	1.90E-04	4.58E-01	1.50E-03	1.12E-01	7.54E-03	8.93E-03
RESI	Closure	MercuryMethyl	0.00E+00	7.50E-04	2.97E-05	4.93E-02	4.93E-02	2.97E-04	7.55E-04	5.73E-13	3.44E-06	3.60E-04	2.92E-08	3.60E-04	1.11E-04	1.10E-08	1.11E-04	2.47E-05	1.90E-04	4.15E-08	1.90E-04	4.59E-01	1.50E-03	1.12E-01	7.54E-03	8.95E-03
RESI	Post Closure	MercuryMethyl	0.00E+00	7.50E-04	2.97E-05	4.93E-02	4.93E-02	2.97E-04	7.55E-04	5.73E-13	3.31E-06	3.60E-04	2.92E-08	3.60E-04	1.11E-04	1.10E-08	1.11E-04	2.47E-05	1.90E-04	4.15E-08	1.90E-04	4.41E-01	1.50E-03	1.10E-01	7.54E-03	8.85E-03
RECR	Base	MercuryMethyl	0.00E+00	7.50E-04	0.00E+00	4.93E-02	4.93E-02	0.00E+00	7.50E-04	5.70E-13	3.64E-06	3.60E-04	0.00E+00	3.60E-04	1.11E-04	0.00E+00	1.11E-04	2.47E-05	1.90E-04	0.00E+00	1.90E-04	4.85E-01	1.50E-03	1.13E-01	7.50E-03	9.00E-03
RECR	Project	MercuryMethyl	0.00E+00	7.50E-04	2.97E-05	4.93E-02	4.93E-02	2.97E-04	7.55E-04	5.73E-13	3.43E-06	3.60E-04	2.92E-08	3.60E-04	1.11E-04	1.10E-08	1.11E-04	2.47E-05	1.90E-04	4.15E-08	1.90E-04	4.58E-01	1.50E-03	1.12E-01	7.54E-03	8.93E-03
RECR	Closure	MercuryMethyl	0.00E+00	7.50E-04	2.97E-05	4.93E-02	4.93E-02	2.97E-04	7.55E-04	5.73E-13	3.44E-06	3.60E-04	2.92E-08	3.60E-04	1.11E-04	1.10E-08	1.11E-04	2.47E-05	1.90E-04	4.15E-08	1.90E-04	4.59E-01	1.50E-03	1.12E-01	7.54E-03	8.95E-03
RECR	Post Closure	MercuryMethyl	0.00E+00	7.50E-04	2.97E-05	4.93E-02	4.93E-02	2.97E-04	7.55E-04	5.73E-13	3.31E-06	3.60E-04	2.92E-08	3.60E-04	1.11E-04	1.10E-08	1.11E-04	2.47E-05	1.90E-04	4.15E-08	1.90E-04	4.41E-01	1.50E-03	1.10E-01	7.54E-03	8.85E-03
URBN	Base	MercuryMethyl	0.00E+00	7.50E-04	0.00E+00	4.93E-02	4.93E-02	0.00E+00	7.50E-04	5.70E-13	0.00E+00	3.60E-04	0.00E+00	3.60E-04	1.11E-04	0.00E+00	1.11E-04	2.47E-05	1.90E-04	0.00E+00	1.90E-04	0.00E+00	1.50E-03	1.13E-01	7.50E-03	9.00E-03
URBN	Project	MercuryMethyl	0.00E+00	7.50E-04	5.14E-06	4.93E-02	4.93E-02	5.14E-05	7.51E-04	5.71E-13	0.00E+00	3.60E-04	5.05E-09	3.60E-04	1.11E-04	1.90E-09	1.11E-04	2.47E-05	1.90E-04	7.18E-09	1.90E-04	0.00E+00	1.50E-03	1.12E-01	7.54E-03	8.93E-03
URBN	Closure	MercuryMethyl	0.00E+00	7.50E-04	5.14E-06	4.93E-02	4.93E-02	5.14E-05	7.51E-04	5.71E-13	0.00E+00	3.60E-04	5.05E-09	3.60E-04	1.11E-04	1.90E-09	1.11E-04	2.47E-05	1.90E-04	7.18E-09	1.90E-04	0.00E+00	1.50E-03	1.12E-01	7.54E-03	8.95E-03
URBN	Post Closure	MercuryMethyl	0.00E+00	7.50E-04	5.14E-06	4.93E-02	4.93E-02	5.14E-05	7.51E-04	5.71E-13	0.00E+00	3.60E-04	5.05E-09	3.60E-04	1.11E-04	1.90E-09	1.11E-04	2.47E-05	1.90E-04	7.18E-09	1.90E-04	0.00E+00	1.50E-03	1.10E-01	7.54E-03	8.85E-03
COMM	Base	MercuryMethyl	0.00E+00	7.50E-04	0.00E+00	4.93E-02	4.93E-02	0.00E+00	7.50E-04	1.88E-10	0.00E+00	3.60E-04	0.00E+00	3.60E-04	1.11E-04	0.00E+00	1.11E-04	2.47E-05	1.90E-04	0.00E+00	1.90E-04	0.00E+00	1.50E-03	1.13E-01	7.50E-03	9.00E-03
COMM	Project	MercuryMethyl	0.00E+00	7.50E-04	4.29E-06	4.93E-02	4.93E-02	4.29E-05	7.51E-04	1.88E-10	0.00E+00	3.60E-04	4.22E-09	3.60E-04	1.11E-04	1.59E-09	1.11E-04	2.47E-05	1.90E-04	6.00E-09	1.90E-04	0.00E+00	1.50E-03	1.12E-01	7.54E-03	8.93E-03
COMM	Closure	MercuryMethyl	0.00E+00	7.50E-04	4.29E-06	4.93E-02	4.93E-02	4.29E-05	7.51E-04	1.88E-10	0.00E+00	3.60E-04	4.22E-09	3.60E-04	1.11E-04	1.59E-09	1.11E-04	2.47E-05	1.90E-04	6.00E-09	1.90E-04	0.00E+00	1.50E-03	1.12E-01	7.54E-03	8.95E-03
COMM	Post Closure	MercuryMethyl	0.00E+00	7.50E-04	4.29E-06	4.93E-02	4.93E-02	4.29E-05	7.51E-04	1.88E-10	0.00E+00	3.60E-04	4.22E-09	3.60E-04	1.11E-04	1.59E-09	1.11E-04	2.47E-05	1.90E-04	6.00E-09	1.90E-04	0.00E+00	1.50E-03	1.10E-01	7.54E-03	8.85E-03
RESI	Project-Base	MercuryMethyl	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	4.52E-06	3.44E-15	0.00E+00	2.17E-07	2.92E-08	2.46E-07	6.70E-08	1.10E-08	7.80E-08	1.49E-08	1.15E-07	4.15E-08	1.56E-07	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
RESI	Closure-Base	MercuryMethyl	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	4.52E-06	3.44E-15	0.00E+00	2.17E-07	2.92E-08	2.46E-07	6.70E-08	1.10E-08	7.80E-08	1.49E-08	1.15E-07	4.15E-08	1.56E-07	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
RESI	Post Closure-Base	MercuryMethyl	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	4.52E-06	3.44E-15	0.00E+00	2.17E-07	2.92E-08	2.46E-07	6.70E-08	1.10E-08	7.80E-08	1.49E-08	1.15E-07	4.15E-08	1.56E-07	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
RECR	Project-Base	MercuryMethyl	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	4.52E-06	3.44E-15	0.00E+00	2.17E-07	2.92E-08	2.46E-07	6.70E-08	1.10E-08	7.80E-08	1.49E-08	1.15E-07	4.15E-08	1.56E-07	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
RECR	Closure-Base	MercuryMethyl	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	4.52E-06	3.44E-15	0.00E+00	2.17E-07	2.92E-08	2.46E-07	6.70E-08	1.10E-08	7.80E-08	1.49E-08	1.15E-07	4.15E-08	1.56E-07	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
RECR	Post Closure-Base	MercuryMethyl	0.00E+00	0.00E+00	2.97E-05	2.97E-05	0.00E+00	2.97E-04	4.52E-06	3.44E-15	0.00E+00	2.17E-07	2.92E-08	2.46E-07	6.70E-08	1.10E-08	7.80E-08	1.49E-08	1.15E-07	4.15E-08	1.56E-07	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
URBN	Project-Base	MercuryMethyl	0.00E+00	0.00E+00	5.14E-06	5.14E-06	0.00E+00	5.14E-05	7.82E-07	5.94E-16	0.00E+00	3.75E-08	5.05E-09	4.26E-08	1.16E-08	1.90E-09	1.35E-08	2.58E-09	1.98E-08	7.18E-09	2.70E-08	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
URBN	Closure-Base	MercuryMethyl	0.00E+00	0.00E+00	5.14E-06	5.14E-06	0.00E+00	5.14E-05	7.82E-07	5.94E-16	0.00E+00	3.75E-08	5.05E-09	4.26E-08	1.16E-08	1.90E-09	1.35E-08	2.58E-09	1.98E-08	7.18E-09	2.70E-08	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
URBN	Post Closure-Base	MercuryMethyl	0.00E+00	0.00E+00	5.14E-06	5.14E-06	0.00E+00	5.14E-05	7.82E-07	5.94E-16	0.00E+00	3.75E-08	5.05E-09	4.26E-08	1.16E-08	1.90E-09	1.35E-08	2.58E-09	1.98E-08	7.18E-09	2.70E-08	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
COMM	Project-Base	MercuryMethyl	0.00E+00	0.00E+00	4.29E-06	4.29E-06	0.00E+00	4.29E-05	6.54E-07	1.63E-13	0.00E+00	3.14E-08	4.22E-09	3.56E-08	9.69E-09	1.59E-09	1.13E-08	2.15E-09	1.66E-08	6.00E-09	2.26E-08	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
COMM	Closure-Base	MercuryMethyl	0.00E+00	0.00E+00	4.29E-06	4.29E-06	0.00E+00	4.29E-05	6.54E-07	1.63E-13	0.00E+00	3.14E-08	4.22E-09	3.56E-08	9.69E-09	1.59E-09	1.13E-08	2.15E-09	1.66E-08	6.00E-09	2.26E-08	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05
COMM	Post Closure-Base	MercuryMethyl	0.00E+00	0.00E+00	4.29E-06	4.29E-06	0.00E+00	4.29E-05	6.54E-07	1.63E-13	0.00E+00	3.14E-08	4.22E-09	3.56E-08	9.69E-09	1.59E-09	1.13E-08	2.15E-09	1.66E-08	6.00E-09	2.26E-08	0.00E+00	4.17E-04	1.86E-04	4.30E-04	5.37E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Base	Arsenic	Infant	3.12E-05	2.61E-09	7.62E-05	0.00E+00	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	7.62E-05	0.00E+00	1.10E-04
RESI	Base	Barium	Infant	1.58E-03	1.32E-07	3.12E-03	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	3.12E-03	0.00E+00	5.09E-03
RESI	Base	Beryllium	Infant	5.80E-06	4.85E-10	3.36E-05	0.00E+00	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06	3.36E-05	0.00E+00	4.08E-05
RESI	Base	Chromium	Infant	1.02E-03	8.52E-08	4.08E-04	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	4.08E-04	0.00E+00	1.68E-03
RESI	Base	Cobalt	Infant	1.31E-04	1.10E-08	4.68E-05	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	4.68E-05	0.00E+00	2.11E-04
RESI	Base	Iron	Infant	1.03E+00	8.57E-05	1.19E-02	0.00E+00	2.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+00	1.19E-02	0.00E+00	1.29E+00
RESI	Base	Lead	Infant	1.09E-04	9.07E-09	6.24E-05	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	6.24E-05	0.00E+00	1.73E-04
RESI	Base	Manganese	Infant	2.04E-02	1.71E-06	3.27E-03	0.00E+00	5.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-02	3.27E-03	0.00E+00	2.87E-02
RESI	Base	Mercury	Infant	1.00E-06	8.36E-11	1.09E-05	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	1.09E-05	0.00E+00	1.44E-05
RESI	Base	Molybdenum	Infant	1.51E-05	1.26E-09	1.17E-04	0.00E+00	3.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.17E-04	0.00E+00	1.35E-04
RESI	Base	Selenium	Infant	1.00E-05	8.36E-10	1.41E-04	0.00E+00	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	1.41E-04	0.00E+00	1.52E-04
RESI	Project	Arsenic	Infant	3.21E-05	2.68E-09	1.37E-04	0.00E+00	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	1.37E-04	0.00E+00	1.71E-04
RESI	Project	Barium	Infant	1.66E-03	1.39E-07	4.02E-03	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	4.02E-03	0.00E+00	6.08E-03
RESI	Project	Beryllium	Infant	6.09E-06	5.09E-10	4.14E-05	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	4.14E-05	0.00E+00	4.90E-05
RESI	Project	Chromium	Infant	1.04E-03	8.70E-08	4.09E-04	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	4.09E-04	0.00E+00	1.71E-03
RESI	Project	Cobalt	Infant	1.34E-04	1.12E-08	4.88E-04	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	4.88E-04	0.00E+00	6.55E-04
RESI	Project	Iron	Infant	1.05E+00	8.80E-05	5.61E-02	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	5.61E-02	0.00E+00	1.37E+00
RESI	Project	Lead	Infant	1.11E-04	9.26E-09	5.52E-05	0.00E+00	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	5.52E-05	0.00E+00	1.68E-04
RESI	Project	Manganese	Infant	2.10E-02	1.76E-06	2.93E-02	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	2.93E-02	0.00E+00	5.54E-02
RESI	Project	Mercury	Infant	1.01E-06	8.41E-11	1.03E-05	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	1.03E-05	0.00E+00	1.38E-05
RESI	Project	Molybdenum	Infant	1.78E-05	1.48E-09	7.32E-04	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	7.32E-04	0.00E+00	7.55E-04
RESI	Project	Selenium	Infant	1.03E-05	8.58E-10	2.91E-04	0.00E+00	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	2.91E-04	0.00E+00	3.01E-04
RESI	Closure	Arsenic	Infant	3.21E-05	2.68E-09	1.06E-04	0.00E+00	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	1.06E-04	0.00E+00	1.41E-04
RESI	Closure	Barium	Infant	1.66E-03	1.39E-07	3.99E-03	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	3.99E-03	0.00E+00	6.06E-03
RESI	Closure	Beryllium	Infant	6.09E-06	5.09E-10	3.57E-05	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	3.57E-05	0.00E+00	4.33E-05
RESI	Closure	Chromium	Infant	1.04E-03	8.70E-08	3.78E-04	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	3.78E-04	0.00E+00	1.67E-03
RESI	Closure	Cobalt	Infant	1.34E-04	1.12E-08	3.12E-04	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	3.12E-04	0.00E+00	4.79E-04
RESI	Closure	Iron	Infant	1.05E+00	8.80E-05	4.58E-02	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	4.58E-02	0.00E+00	1.36E+00
RESI	Closure	Lead	Infant	1.11E-04	9.26E-09	5.19E-05	0.00E+00	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	5.19E-05	0.00E+00	1.64E-04
RESI	Closure	Manganese	Infant	2.10E-02	1.76E-06	2.14E-02	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	2.14E-02	0.00E+00	4.76E-02
RESI	Closure	Mercury	Infant	1.01E-06	8.41E-11	1.03E-05	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	1.03E-05	0.00E+00	1.38E-05
RESI	Closure	Molybdenum	Infant	1.78E-05	1.48E-09	5.35E-04	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	5.35E-04	0.00E+00	5.57E-04
RESI	Closure	Selenium	Infant	1.03E-05	8.58E-10	2.18E-04	0.00E+00	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	2.18E-04	0.00E+00	2.29E-04
RESI	Post Closure	Arsenic	Infant	3.21E-05	2.68E-09	6.05E-05	0.00E+00	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	6.05E-05	0.00E+00	9.49E-05
RESI	Post Closure	Barium	Infant	1.66E-03	1.39E-07	3.93E-03	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	3.93E-03	0.00E+00	6.00E-03
RESI	Post Closure	Beryllium	Infant	6.09E-06	5.09E-10	2.62E-05	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	2.62E-05	0.00E+00	3.38E-05
RESI	Post Closure	Chromium	Infant	1.04E-03	8.70E-08	3.22E-04	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	3.22E-04	0.00E+00	1.62E-03
RESI	Post Closure	Cobalt	Infant	1.34E-04	1.12E-08	3.98E-05	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	3.98E-05	0.00E+00	2.07E-04
RESI	Post Closure	Iron	Infant	1.05E+00	8.80E-05	3.50E-02	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	3.50E-02	0.00E+00	1.35E+00
RESI	Post Closure	Lead	Infant	1.11E-04	9.26E-09	4.19E-05	0.00E+00	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	4.19E-05	0.00E+00	1.54E-04
RESI	Post Closure	Manganese	Infant	2.10E-02	1.76E-06	1.94E-02	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	1.94E-02	0.00E+00	4.56E-02
RESI	Post Closure	Mercury	Infant	1.01E-06	8.41E-11	9.93E-06	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	9.93E-06	0.00E+00	1.34E-05
RESI	Post Closure	Molybdenum	Infant	1.78E-05	1.48E-09	3.61E-04	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	3.61E-04	0.00E+00	3.83E-04
RESI	Post Closure	Selenium	Infant	1.03E-05	8.58E-10	1.08E-04	0.00E+00	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	1.08E-04	0.00E+00	1.18E-04

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Base	Arsenic	Infant	3.12E-05	2.61E-09	7.62E-05	0.00E+00	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	7.62E-05	0.00E+00	1.10E-04
RECR	Base	Barium	Infant	1.58E-03	1.32E-07	3.12E-03	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	3.12E-03	0.00E+00	5.09E-03
RECR	Base	Beryllium	Infant	5.80E-06	4.85E-10	3.36E-05	0.00E+00	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06	3.36E-05	0.00E+00	4.08E-05
RECR	Base	Chromium	Infant	1.02E-03	8.52E-08	4.08E-04	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	4.08E-04	0.00E+00	1.68E-03
RECR	Base	Cobalt	Infant	1.31E-04	1.10E-08	4.68E-05	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	4.68E-05	0.00E+00	2.11E-04
RECR	Base	Iron	Infant	1.03E+00	8.57E-05	1.19E-02	0.00E+00	2.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+00	1.19E-02	0.00E+00	1.29E+00
RECR	Base	Lead	Infant	1.09E-04	9.07E-09	6.24E-05	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	6.24E-05	0.00E+00	1.73E-04
RECR	Base	Manganese	Infant	2.04E-02	1.71E-06	3.27E-03	0.00E+00	5.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-02	3.27E-03	0.00E+00	2.87E-02
RECR	Base	Mercury	Infant	1.00E-06	8.36E-11	1.09E-05	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	1.09E-05	0.00E+00	1.44E-05
RECR	Base	Molybdenum	Infant	1.51E-05	1.26E-09	1.17E-04	0.00E+00	3.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.17E-04	0.00E+00	1.35E-04
RECR	Base	Selenium	Infant	1.00E-05	8.36E-10	1.41E-04	0.00E+00	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	1.41E-04	0.00E+00	1.52E-04
RECR	Project	Arsenic	Infant	3.21E-05	2.68E-09	1.37E-04	0.00E+00	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	1.37E-04	0.00E+00	1.71E-04
RECR	Project	Barium	Infant	1.66E-03	1.39E-07	4.02E-03	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	4.02E-03	0.00E+00	6.08E-03
RECR	Project	Beryllium	Infant	6.09E-06	5.09E-10	4.14E-05	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	4.14E-05	0.00E+00	4.90E-05
RECR	Project	Chromium	Infant	1.04E-03	8.70E-08	4.09E-04	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	4.09E-04	0.00E+00	1.71E-03
RECR	Project	Cobalt	Infant	1.34E-04	1.12E-08	4.88E-04	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	4.88E-04	0.00E+00	6.55E-04
RECR	Project	Iron	Infant	1.05E+00	8.80E-05	5.61E-02	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	5.61E-02	0.00E+00	1.37E+00
RECR	Project	Lead	Infant	1.11E-04	9.26E-09	5.52E-05	0.00E+00	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	5.52E-05	0.00E+00	1.68E-04
RECR	Project	Manganese	Infant	2.10E-02	1.76E-06	2.93E-02	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	2.93E-02	0.00E+00	5.54E-02
RECR	Project	Mercury	Infant	1.01E-06	8.41E-11	1.03E-05	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	1.03E-05	0.00E+00	1.38E-05
RECR	Project	Molybdenum	Infant	1.78E-05	1.48E-09	7.32E-04	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	7.32E-04	0.00E+00	7.55E-04
RECR	Project	Selenium	Infant	1.03E-05	8.58E-10	2.91E-04	0.00E+00	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	2.91E-04	0.00E+00	3.01E-04
RECR	Closure	Arsenic	Infant	3.21E-05	2.68E-09	1.06E-04	0.00E+00	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	1.06E-04	0.00E+00	1.41E-04
RECR	Closure	Barium	Infant	1.66E-03	1.39E-07	3.99E-03	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	3.99E-03	0.00E+00	6.06E-03
RECR	Closure	Beryllium	Infant	6.09E-06	5.09E-10	3.57E-05	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	3.57E-05	0.00E+00	4.33E-05
RECR	Closure	Chromium	Infant	1.04E-03	8.70E-08	3.78E-04	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	3.78E-04	0.00E+00	1.67E-03
RECR	Closure	Cobalt	Infant	1.34E-04	1.12E-08	3.12E-04	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	3.12E-04	0.00E+00	4.79E-04
RECR	Closure	Iron	Infant	1.05E+00	8.80E-05	4.58E-02	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	4.58E-02	0.00E+00	1.36E+00
RECR	Closure	Lead	Infant	1.11E-04	9.26E-09	5.19E-05	0.00E+00	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	5.19E-05	0.00E+00	1.64E-04
RECR	Closure	Manganese	Infant	2.10E-02	1.76E-06	2.14E-02	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	2.14E-02	0.00E+00	4.76E-02
RECR	Closure	Mercury	Infant	1.01E-06	8.41E-11	1.03E-05	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	1.03E-05	0.00E+00	1.38E-05
RECR	Closure	Molybdenum	Infant	1.78E-05	1.48E-09	5.35E-04	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	5.35E-04	0.00E+00	5.57E-04
RECR	Closure	Selenium	Infant	1.03E-05	8.58E-10	2.18E-04	0.00E+00	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	2.18E-04	0.00E+00	2.29E-04
RECR	Post Closure	Arsenic	Infant	3.21E-05	2.68E-09	6.05E-05	0.00E+00	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	6.05E-05	0.00E+00	9.49E-05
RECR	Post Closure	Barium	Infant	1.66E-03	1.39E-07	3.93E-03	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	3.93E-03	0.00E+00	6.00E-03
RECR	Post Closure	Beryllium	Infant	6.09E-06	5.09E-10	2.62E-05	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	2.62E-05	0.00E+00	3.38E-05
RECR	Post Closure	Chromium	Infant	1.04E-03	8.70E-08	3.22E-04	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	3.22E-04	0.00E+00	1.62E-03
RECR	Post Closure	Cobalt	Infant	1.34E-04	1.12E-08	3.98E-05	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	3.98E-05	0.00E+00	2.07E-04
RECR	Post Closure	Iron	Infant	1.05E+00	8.80E-05	3.50E-02	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	3.50E-02	0.00E+00	1.35E+00
RECR	Post Closure	Lead	Infant	1.11E-04	9.26E-09	4.19E-05	0.00E+00	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	4.19E-05	0.00E+00	1.54E-04
RECR	Post Closure	Manganese	Infant	2.10E-02	1.76E-06	1.94E-02	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	1.94E-02	0.00E+00	4.56E-02
RECR	Post Closure	Mercury	Infant	1.01E-06	8.41E-11	9.93E-06	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	9.93E-06	0.00E+00	1.34E-05
RECR	Post Closure	Molybdenum	Infant	1.78E-05	1.48E-09	3.61E-04	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	3.61E-04	0.00E+00	3.83E-04
RECR	Post Closure	Selenium	Infant	1.03E-05	8.58E-10	1.08E-04	0.00E+00	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	1.08E-04	0.00E+00	1.18E-04

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Base	Arsenic	Infant	3.12E-05	2.61E-09	0.00E+00	0.00E+00	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	3.35E-05
URBN	Base	Barium	Infant	1.58E-03	1.32E-07	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	1.97E-03
URBN	Base	Beryllium	Infant	5.80E-06	4.85E-10	0.00E+00	0.00E+00	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06	0.00E+00	0.00E+00	7.22E-06
URBN	Base	Chromium	Infant	1.02E-03	8.52E-08	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	1.27E-03
URBN	Base	Cobalt	Infant	1.31E-04	1.10E-08	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	1.64E-04
URBN	Base	Iron	Infant	1.03E+00	8.57E-05	0.00E+00	0.00E+00	2.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+00	0.00E+00	0.00E+00	1.28E+00
URBN	Base	Lead	Infant	1.09E-04	9.07E-09	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.10E-04
URBN	Base	Manganese	Infant	2.04E-02	1.71E-06	0.00E+00	0.00E+00	5.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-02	0.00E+00	0.00E+00	2.54E-02
URBN	Base	Mercury	Infant	1.00E-06	8.36E-11	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	3.46E-06
URBN	Base	Molybdenum	Infant	1.51E-05	1.26E-09	0.00E+00	0.00E+00	3.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	1.88E-05
URBN	Base	Selenium	Infant	1.00E-05	8.36E-10	0.00E+00	0.00E+00	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	1.02E-05
URBN	Project	Arsenic	Infant	3.14E-05	2.62E-09	0.00E+00	0.00E+00	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.37E-05
URBN	Project	Barium	Infant	1.60E-03	1.34E-07	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	1.99E-03
URBN	Project	Beryllium	Infant	5.85E-06	4.89E-10	0.00E+00	0.00E+00	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	7.29E-06
URBN	Project	Chromium	Infant	1.02E-03	8.55E-08	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	1.27E-03
URBN	Project	Cobalt	Infant	1.32E-04	1.10E-08	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	1.64E-04
URBN	Project	Iron	Infant	1.03E+00	8.61E-05	0.00E+00	0.00E+00	2.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+00	0.00E+00	0.00E+00	1.28E+00
URBN	Project	Lead	Infant	1.09E-04	9.11E-09	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	1.11E-04
URBN	Project	Manganese	Infant	2.05E-02	1.71E-06	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-02	0.00E+00	0.00E+00	2.55E-02
URBN	Project	Mercury	Infant	1.00E-06	8.37E-11	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	3.46E-06
URBN	Project	Molybdenum	Infant	1.55E-05	1.30E-09	0.00E+00	0.00E+00	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	1.93E-05
URBN	Project	Selenium	Infant	1.00E-05	8.40E-10	0.00E+00	0.00E+00	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	1.03E-05
URBN	Closure	Arsenic	Infant	3.14E-05	2.62E-09	0.00E+00	0.00E+00	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.37E-05
URBN	Closure	Barium	Infant	1.60E-03	1.34E-07	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	1.99E-03
URBN	Closure	Beryllium	Infant	5.85E-06	4.89E-10	0.00E+00	0.00E+00	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	7.29E-06
URBN	Closure	Chromium	Infant	1.02E-03	8.55E-08	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	1.27E-03
URBN	Closure	Cobalt	Infant	1.32E-04	1.10E-08	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	1.64E-04
URBN	Closure	Iron	Infant	1.03E+00	8.61E-05	0.00E+00	0.00E+00	2.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+00	0.00E+00	0.00E+00	1.28E+00
URBN	Closure	Lead	Infant	1.09E-04	9.11E-09	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	1.11E-04
URBN	Closure	Manganese	Infant	2.05E-02	1.71E-06	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-02	0.00E+00	0.00E+00	2.55E-02
URBN	Closure	Mercury	Infant	1.00E-06	8.37E-11	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	3.46E-06
URBN	Closure	Molybdenum	Infant	1.55E-05	1.30E-09	0.00E+00	0.00E+00	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	1.93E-05
URBN	Closure	Selenium	Infant	1.00E-05	8.40E-10	0.00E+00	0.00E+00	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	1.03E-05
URBN	Post Closure	Arsenic	Infant	3.14E-05	2.62E-09	0.00E+00	0.00E+00	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.37E-05
URBN	Post Closure	Barium	Infant	1.60E-03	1.34E-07	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	1.99E-03
URBN	Post Closure	Beryllium	Infant	5.85E-06	4.89E-10	0.00E+00	0.00E+00	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	7.29E-06
URBN	Post Closure	Chromium	Infant	1.02E-03	8.55E-08	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	1.27E-03
URBN	Post Closure	Cobalt	Infant	1.32E-04	1.10E-08	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	1.64E-04
URBN	Post Closure	Iron	Infant	1.03E+00	8.61E-05	0.00E+00	0.00E+00	2.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+00	0.00E+00	0.00E+00	1.28E+00
URBN	Post Closure	Lead	Infant	1.09E-04	9.11E-09	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	1.11E-04
URBN	Post Closure	Manganese	Infant	2.05E-02	1.71E-06	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-02	0.00E+00	0.00E+00	2.55E-02
URBN	Post Closure	Mercury	Infant	1.00E-06	8.37E-11	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	3.46E-06
URBN	Post Closure	Molybdenum	Infant	1.55E-05	1.30E-09	0.00E+00	0.00E+00	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	1.93E-05
URBN	Post Closure	Selenium	Infant	1.00E-05	8.40E-10	0.00E+00	0.00E+00	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	1.03E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Base	Arsenic	Infant	3.12E-05	8.58E-07	0.00E+00	0.00E+00	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	3.44E-05
COMM	Base	Barium	Infant	1.58E-03	4.36E-05	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	2.02E-03
COMM	Base	Beryllium	Infant	4.00E-06	1.10E-07	0.00E+00	0.00E+00	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-06	0.00E+00	0.00E+00	5.09E-06
COMM	Base	Chromium	Infant	1.02E-03	2.80E-05	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	1.30E-03
COMM	Base	Cobalt	Infant	1.31E-04	3.62E-06	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	1.67E-04
COMM	Base	Iron	Infant	1.03E+00	2.82E-02	0.00E+00	0.00E+00	2.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	0.00E+00	0.00E+00	1.31E+00
COMM	Base	Lead	Infant	1.09E-04	2.98E-06	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	1.13E-04
COMM	Base	Manganese	Infant	2.04E-02	5.61E-04	0.00E+00	0.00E+00	5.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-02	0.00E+00	0.00E+00	2.60E-02
COMM	Base	Mercury	Infant	1.00E-06	2.75E-08	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	0.00E+00	0.00E+00	3.48E-06
COMM	Base	Molybdenum	Infant	1.51E-05	4.14E-07	0.00E+00	0.00E+00	3.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	1.92E-05
COMM	Base	Selenium	Infant	1.00E-05	2.75E-07	0.00E+00	0.00E+00	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	1.05E-05
COMM	Project	Arsenic	Infant	3.13E-05	8.61E-07	0.00E+00	0.00E+00	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	3.45E-05
COMM	Project	Barium	Infant	1.60E-03	4.39E-05	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	2.03E-03
COMM	Project	Beryllium	Infant	5.84E-06	1.61E-07	0.00E+00	0.00E+00	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	7.44E-06
COMM	Project	Chromium	Infant	1.02E-03	2.81E-05	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	1.30E-03
COMM	Project	Cobalt	Infant	1.32E-04	3.63E-06	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	1.68E-04
COMM	Project	Iron	Infant	1.03E+00	2.83E-02	0.00E+00	0.00E+00	2.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	0.00E+00	0.00E+00	1.31E+00
COMM	Project	Lead	Infant	1.09E-04	2.99E-06	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	1.13E-04
COMM	Project	Manganese	Infant	2.05E-02	5.63E-04	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-02	0.00E+00	0.00E+00	2.61E-02
COMM	Project	Mercury	Infant	1.00E-06	2.75E-08	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	3.49E-06
COMM	Project	Molybdenum	Infant	1.55E-05	4.25E-07	0.00E+00	0.00E+00	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	1.97E-05
COMM	Project	Selenium	Infant	1.00E-05	2.76E-07	0.00E+00	0.00E+00	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	1.06E-05
COMM	Closure	Arsenic	Infant	3.13E-05	8.61E-07	0.00E+00	0.00E+00	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	3.45E-05
COMM	Closure	Barium	Infant	1.60E-03	4.39E-05	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	2.03E-03
COMM	Closure	Beryllium	Infant	5.84E-06	1.61E-07	0.00E+00	0.00E+00	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	7.44E-06
COMM	Closure	Chromium	Infant	1.02E-03	2.81E-05	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	1.30E-03
COMM	Closure	Cobalt	Infant	1.32E-04	3.63E-06	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	1.68E-04
COMM	Closure	Iron	Infant	1.03E+00	2.83E-02	0.00E+00	0.00E+00	2.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	0.00E+00	0.00E+00	1.31E+00
COMM	Closure	Lead	Infant	1.09E-04	2.99E-06	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	1.13E-04
COMM	Closure	Manganese	Infant	2.05E-02	5.63E-04	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-02	0.00E+00	0.00E+00	2.61E-02
COMM	Closure	Mercury	Infant	1.00E-06	2.75E-08	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	3.49E-06
COMM	Closure	Molybdenum	Infant	1.55E-05	4.25E-07	0.00E+00	0.00E+00	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	1.97E-05
COMM	Closure	Selenium	Infant	1.00E-05	2.76E-07	0.00E+00	0.00E+00	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	1.06E-05
COMM	Post Closure	Arsenic	Infant	3.13E-05	8.61E-07	0.00E+00	0.00E+00	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	3.45E-05
COMM	Post Closure	Barium	Infant	1.60E-03	4.39E-05	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	2.03E-03
COMM	Post Closure	Beryllium	Infant	5.84E-06	1.61E-07	0.00E+00	0.00E+00	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	7.44E-06
COMM	Post Closure	Chromium	Infant	1.02E-03	2.81E-05	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	1.30E-03
COMM	Post Closure	Cobalt	Infant	1.32E-04	3.63E-06	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	1.68E-04
COMM	Post Closure	Iron	Infant	1.03E+00	2.83E-02	0.00E+00	0.00E+00	2.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+00	0.00E+00	0.00E+00	1.31E+00
COMM	Post Closure	Lead	Infant	1.09E-04	2.99E-06	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	1.13E-04
COMM	Post Closure	Manganese	Infant	2.05E-02	5.63E-04	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-02	0.00E+00	0.00E+00	2.61E-02
COMM	Post Closure	Mercury	Infant	1.00E-06	2.75E-08	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	3.49E-06
COMM	Post Closure	Molybdenum	Infant	1.55E-05	4.25E-07	0.00E+00	0.00E+00	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	1.97E-05
COMM	Post Closure	Selenium	Infant	1.00E-05	2.76E-07	0.00E+00	0.00E+00	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	1.06E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Base	Arsenic	Toddler	1.25E-04	9.84E-09	1.52E-04	2.55E-05	3.22E-06	2.65E-06	4.04E-05	4.51E-05	2.57E-06	4.92E-05	1.43E-06	2.86E-05	1.40E-06	4.92E-06	1.28E-04	1.78E-04	1.76E-04	4.82E-04
RESI	Base	Barium	Toddler	6.34E-03	5.00E-07	6.24E-03	1.04E-03	5.45E-04	1.20E-03	1.11E-02	8.11E-03	6.65E-04	6.00E-03	1.41E-06	1.65E-06	2.03E-06	7.35E-04	6.88E-03	7.28E-03	2.78E-02	4.20E-02
RESI	Base	Beryllium	Toddler	2.32E-05	1.83E-09	6.72E-05	1.12E-05	2.00E-06	3.52E-07	3.26E-06	2.97E-06	1.95E-07	1.39E-04	5.78E-08	2.76E-08	1.29E-07	4.88E-05	2.52E-05	7.84E-05	1.95E-04	2.98E-04
RESI	Base	Chromium	Toddler	4.08E-03	3.22E-07	8.16E-04	1.36E-04	3.51E-04	1.17E-04	1.08E-03	1.57E-03	6.48E-05	5.17E-04	7.28E-04	3.97E-04	8.44E-04	2.11E-03	4.43E-03	9.52E-04	7.43E-03	1.28E-02
RESI	Base	Cobalt	Toddler	5.26E-04	4.15E-08	9.36E-05	1.45E-05	4.52E-05	3.98E-05	5.73E-04	3.14E-04	2.21E-05	1.00E-04	2.11E-05	3.09E-04	8.29E-05	3.26E-04	5.71E-04	1.08E-04	1.79E-03	2.47E-03
RESI	Base	Iron	Toddler	4.10E+00	3.23E-04	2.37E-02	3.96E-03	3.53E-01	8.48E-02	8.93E-01	3.50E-01	4.71E-02	1.60E-01	2.89E-01	6.14E-01	2.71E-01	1.05E+00	4.45E+00	2.77E-02	3.76E+00	8.24E+00
RESI	Base	Lead	Toddler	4.34E-04	3.42E-08	1.25E-04	1.86E-05	2.24E-06	3.47E-05	3.21E-04	3.33E-04	1.92E-05	3.74E-07	9.84E-08	5.30E-04	1.30E-04	9.05E-04	4.36E-04	1.43E-04	2.27E-03	2.85E-03
RESI	Base	Manganese	Toddler	8.16E-02	6.43E-06	6.54E-03	1.09E-03	7.02E-03	3.01E-01	1.11E+00	3.48E-01	1.67E-01	8.90E-03	9.93E-03	7.55E-03	1.84E-02	1.30E-02	8.86E-02	7.63E-03	1.98E+00	2.08E+00
RESI	Base	Mercury	Toddler	4.00E-06	3.15E-10	2.18E-05	3.65E-06	3.44E-06	3.62E-05	1.96E-04	6.83E-05	2.01E-05	1.14E-02	1.32E-05	9.93E-04	6.49E-05	3.02E-04	7.44E-06	2.55E-05	1.31E-02	1.31E-02
RESI	Base	Molybdenum	Toddler	6.02E-05	4.75E-09	2.33E-04	3.90E-05	5.18E-06	1.81E-04	8.20E-04	3.08E-04	1.00E-04	1.00E-03	1.32E-04	3.31E-04	1.30E-04	3.02E-04	6.54E-05	2.72E-04	3.30E-03	3.64E-03
RESI	Base	Selenium	Toddler	4.00E-05	3.15E-09	2.83E-04	4.72E-05	3.44E-07	4.58E-06	4.25E-05	7.51E-05	2.54E-06	1.22E-03	1.66E-03	8.94E-03	1.49E-03	4.52E-03	4.03E-05	3.30E-04	1.79E-02	1.83E-02
RESI	Project	Arsenic	Toddler	1.28E-04	1.01E-08	2.73E-04	4.57E-05	3.31E-06	2.90E-06	4.32E-05	4.53E-05	3.22E-06	8.83E-05	1.77E-06	5.51E-05	1.96E-06	7.03E-06	1.32E-04	3.19E-04	2.49E-04	6.99E-04
RESI	Project	Barium	Toddler	6.64E-03	5.23E-07	8.03E-03	1.34E-03	5.71E-04	1.24E-03	1.14E-02	8.15E-03	7.22E-04	7.72E-03	1.61E-06	1.69E-06	2.70E-06	8.69E-04	7.21E-03	9.38E-03	3.01E-02	4.67E-02
RESI	Project	Beryllium	Toddler	2.44E-05	1.92E-09	8.28E-05	1.38E-05	2.10E-06	4.96E-07	4.22E-06	2.98E-06	4.10E-07	1.71E-04	6.55E-08	3.91E-08	1.52E-07	5.63E-05	2.65E-05	9.67E-05	2.36E-04	3.59E-04
RESI	Project	Chromium	Toddler	4.16E-03	3.28E-07	8.18E-04	1.37E-04	3.58E-04	1.28E-04	1.15E-03	1.57E-03	8.05E-05	5.18E-04	8.50E-04	4.79E-04	1.07E-03	2.56E-03	4.52E-03	9.54E-04	8.41E-03	1.39E-02
RESI	Project	Cobalt	Toddler	5.36E-04	4.23E-08	9.75E-04	1.51E-04	4.61E-05	4.11E-05	5.82E-04	3.15E-04	2.39E-05	1.04E-03	2.63E-05	4.95E-04	1.11E-04	4.86E-04	5.82E-04	1.13E-03	3.12E-03	4.83E-03
RESI	Project	Iron	Toddler	4.21E+00	3.32E-04	1.12E-01	1.87E-02	3.62E-01	9.84E-02	9.84E-01	3.51E-01	6.72E-02	7.58E-01	4.40E-01	9.11E-01	4.08E-01	1.70E+00	4.57E+00	1.31E-01	5.72E+00	1.04E+01
RESI	Project	Lead	Toddler	4.43E-04	3.49E-08	1.10E-04	1.64E-05	2.29E-06	3.59E-05	3.29E-04	3.34E-04	2.09E-05	3.31E-07	1.09E-07	1.54E-04	1.60E-04	6.61E-04	4.46E-04	1.27E-04	1.70E-03	2.27E-03
RESI	Project	Manganese	Toddler	8.40E-02	6.63E-06	5.85E-02	9.78E-03	7.23E-03	3.02E-01	1.12E+00	3.49E-01	1.68E-01	7.97E-02	1.38E-02	1.56E-03	2.85E-02	3.91E-03	9.13E-02	6.83E-02	2.06E+00	2.22E+00
RESI	Project	Mercury	Toddler	4.02E-06	3.17E-10	2.06E-05	3.44E-06	3.46E-06	3.62E-05	1.96E-04	6.83E-05	2.01E-05	1.08E-02	1.33E-05	9.84E-04	6.53E-05	2.99E-04	7.49E-06	2.40E-05	1.25E-02	1.25E-02
RESI	Project	Molybdenum	Toddler	7.10E-05	5.60E-09	1.46E-03	2.45E-04	6.11E-06	1.85E-04	8.43E-04	3.14E-04	1.04E-04	6.28E-03	3.31E-04	1.11E-03	4.80E-04	9.94E-04	7.71E-05	1.71E-03	1.06E-02	1.24E-02
RESI	Project	Selenium	Toddler	4.10E-05	3.24E-09	5.82E-04	9.72E-05	3.53E-07	4.72E-06	4.34E-05	7.53E-05	2.74E-06	2.50E-03	1.91E-03	2.39E-02	1.85E-03	9.92E-03	4.14E-05	6.79E-04	4.02E-02	4.09E-02
RESI	Closure	Arsenic	Toddler	1.28E-04	1.01E-08	2.13E-04	3.56E-05	3.31E-06	2.90E-06	4.32E-05	4.53E-05	3.22E-06	6.88E-05	1.77E-06	4.74E-05	1.96E-06	6.68E-06	1.32E-04	2.49E-04	2.21E-04	6.01E-04
RESI	Closure	Barium	Toddler	6.64E-03	5.23E-07	7.98E-03	1.33E-03	5.71E-04	1.24E-03	1.14E-02	8.15E-03	7.22E-04	7.68E-03	1.61E-06	1.68E-06	2.70E-06	8.69E-04	7.21E-03	9.32E-03	3.01E-02	4.66E-02
RESI	Closure	Beryllium	Toddler	2.44E-05	1.92E-09	7.15E-05	1.19E-05	2.10E-06	4.96E-07	4.22E-06	2.98E-06	4.10E-07	1.48E-04	6.55E-08	3.68E-08	1.52E-07	5.59E-05	2.65E-05	8.34E-05	2.12E-04	3.22E-04
RESI	Closure	Chromium	Toddler	4.16E-03	3.28E-07	7.56E-04	1.26E-04	3.58E-04	1.28E-04	1.15E-03	1.57E-03	8.05E-05	4.79E-04	8.50E-04	4.49E-04	1.07E-03	2.48E-03	4.52E-03	8.82E-04	8.25E-03	1.37E-02
RESI	Closure	Cobalt	Toddler	5.36E-04	4.23E-08	6.24E-04	9.66E-05	4.61E-05	4.11E-05	5.82E-04	3.15E-04	2.39E-05	6.67E-04	2.63E-05	4.52E-04	1.11E-04	4.73E-04	5.82E-04	7.21E-04	2.69E-03	3.99E-03
RESI	Closure	Iron	Toddler	4.21E+00	3.32E-04	9.17E-02	1.53E-02	3.62E-01	9.84E-02	9.84E-01	3.51E-01	6.72E-02	6.19E-01	4.40E-01	8.46E-01	4.08E-01	1.66E+00	4.57E+00	1.07E-01	5.47E+00	1.02E+01
RESI	Closure	Lead	Toddler	4.43E-04	3.49E-08	1.04E-04	1.54E-05	2.29E-06	3.59E-05	3.29E-04	3.34E-04	2.09E-05	3.11E-07	1.09E-07	1.47E-04	1.60E-04	6.54E-04	4.46E-04	1.19E-04	1.68E-03	2.25E-03
RESI	Closure	Manganese	Toddler	8.40E-02	6.63E-06	4.28E-02	7.15E-03	7.23E-03	3.02E-01	1.12E+00	3.49E-01	1.68E-01	5.82E-02	1.38E-02	1.21E-03	2.85E-02	3.36E-03	9.13E-02	4.99E-02	2.04E+00	2.18E+00
RESI	Closure	Mercury	Toddler	4.02E-06	3.17E-10	2.06E-05	3.45E-06	3.46E-06	3.62E-05	1.96E-04	6.83E-05	2.01E-05	1.08E-02	1.33E-05	9.86E-04	6.53E-05	3.00E-04	7.49E-06	2.41E-05	1.25E-02	1.25E-02
RESI	Closure	Molybdenum	Toddler	7.10E-05	5.60E-09	1.07E-03	1.79E-04	6.11E-06	1.85E-04	8.43E-04	3.14E-04	1.04E-04	4.58E-03	3.31E-04	8.11E-04	4.79E-04	7.49E-04	7.71E-05	1.25E-03	8.40E-03	9.72E-03
RESI	Closure	Selenium	Toddler	4.10E-05	3.24E-09	4.37E-04	7.30E-05	3.53E-07	4.72E-06	4.34E-05	7.53E-05	2.74E-06	1.88E-03	1.91E-03	1.80E-02	1.85E-03	7.90E-03	4.14E-05	5.10E-04	3.17E-02	3.23E-02
RESI	Post Closure	Arsenic	Toddler	1.28E-04	1.01E-08	1.21E-04	2.02E-05	3.31E-06	2.90E-06	4.32E-05	4.53E-05	3.22E-06	3.91E-05	1.77E-06	6.15E-05	1.96E-06	7.32E-06	1.32E-04	1.41E-04	2.06E-04	4.79E-04
RESI	Post Closure	Barium	Toddler	6.64E-03	5.23E-07	7.86E-03	1.31E-03	5.71E-04	1.24E-03	1.14E-02	8.15E-03	7.22E-04	7.56E-03	1.61E-06	1.67E-06	2.70E-06	8.68E-04	7.21E-03	9.17E-03	2.99E-02	4.63E-02
RESI	Post Closure	Beryllium	Toddler	2.44E-05	1.92E-09	5.25E-05	8.77E-06	2.10E-06	4.96E-07	4.22E-06	2.98E-06	4.10E-07	1.08E-04	6.55E-08	3.59E-08	1.52E-07	5.58E-05	2.65E-05	6.12E-05	1.73E-04	2.60E-04
RESI	Post Closure	Chromium	Toddler	4.16E-03	3.28E-07	6.44E-04	1.08E-04	3.58E-04	1.28E-04	1.15E-03	1.57E-03	8.05E-05	4.08E-04	8.50E-04	4.19E-04	1.07E-03	2.39E-03	4.52E-03	7.52E-04	8.07E-03	1.33E-02
RESI	Post Closure	Cobalt	Toddler	5.36E-04	4.23E-08	7.97E-05	1.23E-05	4.61E-05	4.11E-05	5.82E-04	3.15E-04	2.39E-05	8.51E-05	2.63E-05	4.18E-04	1.11E-04	4.62E-04	5.82E-04	9.20E-05	2.06E-03	2.74E-03
RESI	Post Closure	Iron	Toddler	4.21E+00	3.32E-04	7.00E-02	1.17E-02	3.62E-01	9.84E-02	9.84E-01	3.51E-01	6.72E-02	4.72E-01	4.40E-01	8.96E-01	4.08E-01	1.69E+00	4.57E+00	8.16E-02	5.41E+00	1.01E+01
RESI	Post Closure	Lead	Toddler	4.43E-04	3.49E-08	8.37E-05	1.25E-05	2.29E-06	3.59E-05	3.29E-04	3.34E-04	2.09E-05	2.51E-07	1.09E-07	1.36E-04	1.60E-04	6.45E-04	4.46E-04	9.62E-05	1.66E-03	2.20E-03
RESI	Post Closure	Manganese	Toddler	8.40E-02	6.63E-06	3.88E-02	6.48E-03	7.23E-03	3.02E-01	1.12E+00	3.49E-01	1.68E-01	5.28E-02	1.38E-02	1.13E-03	2.85E-02	3.23E-03	9.13E-02	4.53E-02	2.03E+00	2.17E+00
RESI	Post Closure	Mercury	Toddler	4.02E-06	3.17E-10	1.99E-05	3.32E-06	3.46E-06	3.62E-05	1.96E-04	6.83E-05	2.01E-05	1.04E-02	1.33E-05	9.75E-04	6.53E-05	2.97E-04	7.49E-06	2.32E-05	1.21E-02	1.21E-02
RESI	Post Closure	Molybdenum	Toddler	7.10E-05	5.60E-09	7.22E-04	1.21E-04	6.11E-06	1.85E-04	8.43E-04	3.14E-04	1.04E-04	3.10E-03	3.32E-04	1.31E-03	4.80E-04	1.16E-03	7.71E-05	8.43E-04	7.82E-03	8.74E-03
RESI	Post Closure	Selenium	Toddler	4.10E-05	3.24E-09	2.15E-04	3.60E-05	3.53E-07	4.72E-06	4.34E-05	7.53E-05	2.74E-06	9.26E-04	1.91E-03	3.98E-02	1.86E-03	1.54E-02	4.14E-05	2.51E-04	6.00E-02	6.03E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Base	Arsenic	Toddler	1.25E-04	9.84E-09	1.52E-04	2.55E-05	3.22E-06	5.29E-07	8.08E-06	9.03E-06	5.15E-07	2.44E-05	2.86E-07	5.72E-06	2.80E-07	9.84E-07	1.28E-04	1.78E-04	4.98E-05	3.56E-04
RECR	Base	Barium	Toddler	6.34E-03	5.00E-07	6.24E-03	1.04E-03	5.45E-04	2.40E-04	2.22E-03	1.62E-03	1.33E-04	2.97E-03	2.81E-07	3.30E-07	4.06E-07	1.47E-04	6.88E-03	7.28E-03	7.33E-03	2.15E-02
RECR	Base	Beryllium	Toddler	2.32E-05	1.83E-09	6.72E-05	1.12E-05	2.00E-06	7.03E-08	6.52E-07	5.94E-07	3.90E-08	6.87E-05	1.16E-08	5.52E-09	2.57E-08	9.76E-06	2.52E-05	7.84E-05	7.99E-05	1.84E-04
RECR	Base	Chromium	Toddler	4.08E-03	3.22E-07	8.16E-04	1.36E-04	3.51E-04	2.34E-05	2.17E-04	3.13E-04	1.30E-05	2.56E-04	1.46E-04	7.94E-05	1.69E-04	4.22E-04	4.43E-03	9.52E-04	1.64E-03	7.02E-03
RECR	Base	Cobalt	Toddler	5.26E-04	4.15E-08	9.36E-05	1.45E-05	4.52E-05	7.95E-06	1.15E-04	6.28E-05	4.41E-06	4.95E-05	4.21E-06	6.18E-05	1.66E-05	6.51E-05	5.71E-04	1.08E-04	3.87E-04	1.07E-03
RECR	Base	Iron	Toddler	4.10E+00	3.23E-04	2.37E-02	3.96E-03	3.53E-01	1.70E-02	1.79E-01	7.00E-02	9.41E-03	7.92E-02	5.79E-02	1.23E-01	5.41E-02	2.10E-01	4.45E+00	2.77E-02	7.99E-01	5.28E+00
RECR	Base	Lead	Toddler	4.34E-04	3.42E-08	1.25E-04	1.86E-05	2.24E-06	6.94E-06	6.43E-05	6.67E-05	3.85E-06	1.85E-07	1.97E-08	1.06E-04	2.60E-05	1.81E-04	4.36E-04	1.43E-04	4.55E-04	1.03E-03
RECR	Base	Manganese	Toddler	8.16E-02	6.43E-06	6.54E-03	1.09E-03	7.02E-03	6.02E-02	2.22E-01	6.96E-02	3.34E-02	4.41E-03	1.99E-03	1.51E-03	3.69E-03	2.59E-03	8.86E-02	7.63E-03	3.99E-01	4.96E-01
RECR	Base	Mercury	Toddler	4.00E-06	3.15E-10	2.18E-05	3.65E-06	3.44E-06	7.23E-06	3.92E-05	1.37E-05	4.01E-06	5.65E-03	2.65E-06	1.99E-04	1.30E-05	6.03E-05	7.44E-06	2.55E-05	5.99E-03	6.02E-03
RECR	Base	Molybdenum	Toddler	6.02E-05	4.75E-09	2.33E-04	3.90E-05	5.18E-06	3.62E-05	1.64E-04	6.17E-05	2.01E-05	4.95E-04	2.65E-05	6.62E-05	2.60E-05	6.03E-05	6.54E-05	2.72E-04	9.56E-04	1.29E-03
RECR	Base	Selenium	Toddler	4.00E-05	3.15E-09	2.83E-04	4.72E-05	3.44E-07	9.16E-07	8.49E-06	1.50E-05	5.08E-07	6.02E-04	3.31E-04	1.79E-03	2.99E-04	9.05E-04	4.03E-05	3.30E-04	3.95E-03	4.32E-03
RECR	Project	Arsenic	Toddler	1.28E-04	1.01E-08	2.73E-04	4.57E-05	3.31E-06	5.79E-07	8.63E-06	9.05E-06	6.44E-07	4.37E-05	3.53E-07	1.10E-05	3.92E-07	1.41E-06	1.32E-04	3.19E-04	7.58E-05	5.26E-04
RECR	Project	Barium	Toddler	6.64E-03	5.23E-07	8.03E-03	1.34E-03	5.71E-04	2.48E-04	2.28E-03	1.63E-03	1.44E-04	3.82E-03	3.22E-07	3.37E-07	5.41E-07	1.74E-04	7.21E-03	9.38E-03	8.30E-03	2.49E-02
RECR	Project	Beryllium	Toddler	2.44E-05	1.92E-09	8.28E-05	1.38E-05	2.10E-06	9.93E-08	8.44E-07	5.97E-07	8.19E-08	8.47E-05	1.31E-08	7.82E-09	3.05E-08	1.13E-05	2.65E-05	9.67E-05	9.77E-05	2.21E-04
RECR	Project	Chromium	Toddler	4.16E-03	3.28E-07	8.18E-04	1.37E-04	3.58E-04	2.55E-05	2.31E-04	3.14E-04	1.61E-05	2.56E-04	1.70E-04	9.58E-05	2.13E-04	5.13E-04	4.52E-03	9.54E-04	1.83E-03	7.31E-03
RECR	Project	Cobalt	Toddler	5.36E-04	4.23E-08	9.75E-04	1.51E-04	4.61E-05	8.21E-06	1.16E-04	6.29E-05	4.79E-06	5.16E-04	5.26E-06	9.89E-05	2.22E-05	9.72E-05	5.82E-04	1.13E-03	9.32E-04	2.64E-03
RECR	Project	Iron	Toddler	4.21E+00	3.32E-04	1.12E-01	1.87E-02	3.62E-01	1.97E-02	1.97E-01	7.02E-02	1.34E-02	3.75E-01	8.80E-02	1.82E-01	8.16E-02	3.40E-01	4.57E+00	1.31E-01	1.37E+00	6.07E+00
RECR	Project	Lead	Toddler	4.43E-04	3.49E-08	1.10E-04	1.64E-05	2.29E-06	7.17E-06	6.59E-05	6.68E-05	4.19E-06	1.64E-07	2.18E-08	3.09E-05	3.19E-05	1.32E-04	4.46E-04	1.27E-04	3.39E-04	9.11E-04
RECR	Project	Manganese	Toddler	8.40E-02	6.63E-06	5.85E-02	9.78E-03	7.23E-03	6.04E-02	2.23E-01	6.98E-02	3.36E-02	3.94E-02	2.76E-03	3.12E-04	5.70E-03	7.83E-04	9.13E-02	6.83E-02	4.36E-01	5.96E-01
RECR	Project	Mercury	Toddler	4.02E-06	3.17E-10	2.06E-05	3.44E-06	3.46E-06	7.23E-06	3.92E-05	1.37E-05	4.01E-06	5.33E-03	2.65E-06	1.97E-04	1.31E-05	5.99E-05	7.49E-06	2.40E-05	5.67E-03	5.70E-03
RECR	Project	Molybdenum	Toddler	7.10E-05	5.60E-09	1.46E-03	2.45E-04	6.11E-06	3.71E-05	1.69E-04	6.28E-05	2.08E-05	3.11E-03	6.63E-05	2.21E-04	9.59E-05	1.99E-04	7.71E-05	1.71E-03	3.98E-03	5.76E-03
RECR	Project	Selenium	Toddler	4.10E-05	3.24E-09	5.82E-04	9.72E-05	3.53E-07	9.44E-07	8.68E-06	1.51E-05	5.48E-07	1.24E-03	3.82E-04	4.78E-03	3.70E-04	1.98E-03	4.14E-05	6.79E-04	8.78E-03	9.50E-03
RECR	Closure	Arsenic	Toddler	1.28E-04	1.01E-08	2.13E-04	3.56E-05	3.31E-06	5.79E-07	8.63E-06	9.05E-06	6.44E-07	3.41E-05	3.53E-07	9.47E-06	3.92E-07	1.34E-06	1.32E-04	2.49E-04	6.45E-05	4.45E-04
RECR	Closure	Barium	Toddler	6.64E-03	5.23E-07	7.98E-03	1.33E-03	5.71E-04	2.48E-04	2.28E-03	1.63E-03	1.44E-04	3.80E-03	3.22E-07	3.37E-07	5.41E-07	1.74E-04	7.21E-03	9.32E-03	8.28E-03	2.48E-02
RECR	Closure	Beryllium	Toddler	2.44E-05	1.92E-09	7.15E-05	1.19E-05	2.10E-06	9.93E-08	8.44E-07	5.97E-07	8.19E-08	7.31E-05	1.31E-08	7.35E-09	3.05E-08	1.12E-05	2.65E-05	8.34E-05	8.60E-05	1.96E-04
RECR	Closure	Chromium	Toddler	4.16E-03	3.28E-07	7.56E-04	1.26E-04	3.58E-04	2.55E-05	2.31E-04	3.14E-04	1.61E-05	2.37E-04	1.70E-04	8.98E-05	2.13E-04	4.96E-04	4.52E-03	8.82E-04	1.79E-03	7.20E-03
RECR	Closure	Cobalt	Toddler	5.36E-04	4.23E-08	6.24E-04	9.66E-05	4.61E-05	8.21E-06	1.16E-04	6.29E-05	4.79E-06	3.30E-04	5.26E-06	9.03E-05	2.22E-05	9.45E-05	5.82E-04	7.21E-04	7.35E-04	2.04E-03
RECR	Closure	Iron	Toddler	4.21E+00	3.32E-04	9.17E-02	1.53E-02	3.62E-01	1.97E-02	1.97E-01	7.02E-02	1.34E-02	3.06E-01	8.80E-02	1.69E-01	8.16E-02	3.31E-01	4.57E+00	1.07E-01	1.28E+00	5.96E+00
RECR	Closure	Lead	Toddler	4.43E-04	3.49E-08	1.04E-04	1.54E-05	2.29E-06	7.17E-06	6.59E-05	6.68E-05	4.19E-06	1.54E-07	2.18E-08	2.94E-05	3.19E-05	1.31E-04	4.46E-04	1.19E-04	3.36E-04	9.01E-04
RECR	Closure	Manganese	Toddler	8.40E-02	6.63E-06	4.28E-02	7.15E-03	7.23E-03	6.04E-02	2.23E-01	6.98E-02	3.36E-02	2.88E-02	2.76E-03	2.42E-04	5.69E-03	6.72E-04	9.13E-02	4.99E-02	4.25E-01	5.66E-01
RECR	Closure	Mercury	Toddler	4.02E-06	3.17E-10	2.06E-05	3.45E-06	3.46E-06	7.23E-06	3.92E-05	1.37E-05	4.01E-06	5.34E-03	2.65E-06	1.97E-04	1.31E-05	6.00E-05	7.49E-06	2.41E-05	5.68E-03	5.71E-03
RECR	Closure	Molybdenum	Toddler	7.10E-05	5.60E-09	1.07E-03	1.79E-04	6.11E-06	3.71E-05	1.69E-04	6.28E-05	2.08E-05	2.27E-03	6.62E-05	1.62E-04	9.59E-05	1.50E-04	7.71E-05	1.25E-03	3.03E-03	4.36E-03
RECR	Closure	Selenium	Toddler	4.10E-05	3.24E-09	4.37E-04	7.30E-05	3.53E-07	9.44E-07	8.68E-06	1.51E-05	5.48E-07	9.30E-04	3.82E-04	3.61E-03	3.69E-04	1.58E-03	4.14E-05	5.10E-04	6.90E-03	7.45E-03
RECR	Post Closure	Arsenic	Toddler	1.28E-04	1.01E-08	1.21E-04	2.02E-05	3.31E-06	5.79E-07	8.63E-06	9.05E-06	6.44E-07	1.93E-05	3.53E-07	1.23E-05	3.92E-07	1.46E-06	1.32E-04	1.41E-04	5.28E-05	3.26E-04
RECR	Post Closure	Barium	Toddler	6.64E-03	5.23E-07	7.86E-03	1.31E-03	5.71E-04	2.48E-04	2.28E-03	1.63E-03	1.44E-04	3.74E-03	3.22E-07	3.34E-07	5.41E-07	1.74E-04	7.21E-03	9.17E-03	8.22E-03	2.46E-02
RECR	Post Closure	Beryllium	Toddler	2.44E-05	1.92E-09	5.25E-05	8.77E-06	2.10E-06	9.93E-08	8.44E-07	5.97E-07	8.19E-08	5.37E-05	1.31E-08	7.19E-09	3.05E-08	1.12E-05	2.65E-05	6.12E-05	6.65E-05	1.54E-04
RECR	Post Closure	Chromium	Toddler	4.16E-03	3.28E-07	6.44E-04	1.08E-04	3.58E-04	2.55E-05	2.31E-04	3.14E-04	1.61E-05	2.02E-04	1.70E-04	8.37E-05	2.13E-04	4.79E-04	4.52E-03	7.52E-04	1.73E-03	7.01E-03
RECR	Post Closure	Cobalt	Toddler	5.36E-04	4.23E-08	7.97E-05	1.23E-05	4.61E-05	8.21E-06	1.16E-04	6.29E-05	4.79E-06	4.21E-05	5.25E-06	8.35E-05	2.22E-05	9.24E-05	5.82E-04	9.20E-05	4.38E-04	1.11E-03
RECR	Post Closure	Iron	Toddler	4.21E+00	3.32E-04	7.00E-02	1.17E-02	3.62E-01	1.97E-02	1.97E-01	7.02E-02	1.34E-02	2.34E-01	8.80E-02	1.79E-01	8.16E-02	3.38E-01	4.57E+00	8.16E-02	1.22E+00	5.88E+00
RECR	Post Closure	Lead	Toddler	4.43E-04	3.49E-08	8.37E-05	1.25E-05	2.29E-06	7.17E-06	6.59E-05	6.68E-05	4.19E-06	1.24E-07	2.18E-08	2.71E-05	3.19E-05	1.29E-04	4.46E-04	9.62E-05	3.32E-04	8.74E-04
RECR	Post Closure	Manganese	Toddler	8.40E-02	6.63E-06	3.88E-02	6.48E-03	7.23E-03	6.04E-02	2.23E-01	6.98E-02	3.36E-02	2.61E-02	2.76E-03	2.26E-04	5.69E-03	6.47E-04	9.13E-02	4.53E-02	4.22E-01	5.59E-01
RECR	Post Closure	Mercury	Toddler	4.02E-06	3.17E-10	1.99E-05	3.32E-06	3.46E-06	7.23E-06	3.92E-05	1.37E-05	4.01E-06	5.14E-03	2.65E-06	1.95E-04	1.31E-05	5.93E-05	7.49E-06	2.32E-05	5.47E-03	5.50E-03
RECR	Post Closure	Molybdenum	Toddler	7.10E-05	5.60E-09	7.22E-04	1.21E-04	6.11E-06	3.71E-05	1.69E-04	6.28E-05	2.08E-05	1.53E-03	6.63E-05	2.61E-04	9.60E-05	2.32E-04	7.71E-05	8.43E-04	2.48E-03	3.40E-03
RECR	Post Closure	Selenium	Toddler	4.10E-05	3.24E-09	2.15E-04	3.60E-05	3.53E-07	9.44E-07	8.68E-06	1.51E-05	5.48E-07	4.58E-04	3.83E-04	7.97E-03	3.71E-04	3.08E-03	4.14E-05	2.51E-04	1.23E-02	1.26E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Base	Arsenic	Toddler	1.25E-04	9.84E-09	0.00E+00	0.00E+00	3.22E-06	0.00E+00	8.08E-06	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	1.71E-05	1.45E-04
URBN	Base	Barium	Toddler	6.34E-03	5.00E-07	0.00E+00	0.00E+00	5.45E-04	0.00E+00	2.22E-03	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03	0.00E+00	3.84E-03	1.07E-02
URBN	Base	Beryllium	Toddler	2.32E-05	1.83E-09	0.00E+00	0.00E+00	2.00E-06	0.00E+00	6.52E-07	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	1.25E-06	2.64E-05
URBN	Base	Chromium	Toddler	4.08E-03	3.22E-07	0.00E+00	0.00E+00	3.51E-04	0.00E+00	2.17E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03	0.00E+00	5.30E-04	4.96E-03
URBN	Base	Cobalt	Toddler	5.26E-04	4.15E-08	0.00E+00	0.00E+00	4.52E-05	0.00E+00	1.15E-04	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04	0.00E+00	1.77E-04	7.49E-04
URBN	Base	Iron	Toddler	4.10E+00	3.23E-04	0.00E+00	0.00E+00	3.53E-01	0.00E+00	1.79E-01	7.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E+00	0.00E+00	2.49E-01	4.70E+00
URBN	Base	Lead	Toddler	4.34E-04	3.42E-08	0.00E+00	0.00E+00	2.24E-06	0.00E+00	6.43E-05	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	1.31E-04	5.67E-04
URBN	Base	Manganese	Toddler	8.16E-02	6.43E-06	0.00E+00	0.00E+00	7.02E-03	0.00E+00	2.22E-01	6.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-02	0.00E+00	2.92E-01	3.80E-01
URBN	Base	Mercury	Toddler	4.00E-06	3.15E-10	0.00E+00	0.00E+00	3.44E-06	0.00E+00	3.92E-05	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	5.28E-05	6.03E-05
URBN	Base	Molybdenum	Toddler	6.02E-05	4.75E-09	0.00E+00	0.00E+00	5.18E-06	0.00E+00	1.64E-04	6.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	2.26E-04	2.91E-04
URBN	Base	Selenium	Toddler	4.00E-05	3.15E-09	0.00E+00	0.00E+00	3.44E-07	0.00E+00	8.49E-06	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	2.35E-05	6.39E-05
URBN	Project	Arsenic	Toddler	1.25E-04	9.89E-09	0.00E+00	0.00E+00	3.24E-06	0.00E+00	8.17E-06	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	1.72E-05	1.46E-04
URBN	Project	Barium	Toddler	6.39E-03	5.04E-07	0.00E+00	0.00E+00	5.49E-04	0.00E+00	2.23E-03	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-03	0.00E+00	3.86E-03	1.08E-02
URBN	Project	Beryllium	Toddler	2.34E-05	1.85E-09	0.00E+00	0.00E+00	2.01E-06	0.00E+00	6.85E-07	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	1.28E-06	2.67E-05
URBN	Project	Chromium	Toddler	4.09E-03	3.23E-07	0.00E+00	0.00E+00	3.52E-04	0.00E+00	2.19E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-03	0.00E+00	5.32E-04	4.98E-03
URBN	Project	Cobalt	Toddler	5.28E-04	4.16E-08	0.00E+00	0.00E+00	4.54E-05	0.00E+00	1.15E-04	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	1.78E-04	7.51E-04
URBN	Project	Iron	Toddler	4.12E+00	3.25E-04	0.00E+00	0.00E+00	3.54E-01	0.00E+00	1.82E-01	7.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E+00	0.00E+00	2.52E-01	4.73E+00
URBN	Project	Lead	Toddler	4.36E-04	3.44E-08	0.00E+00	0.00E+00	2.25E-06	0.00E+00	6.46E-05	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	1.31E-04	5.69E-04
URBN	Project	Manganese	Toddler	8.20E-02	6.47E-06	0.00E+00	0.00E+00	7.05E-03	0.00E+00	2.22E-01	6.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-02	0.00E+00	2.92E-01	3.81E-01
URBN	Project	Mercury	Toddler	4.00E-06	3.16E-10	0.00E+00	0.00E+00	3.44E-06	0.00E+00	3.92E-05	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06	0.00E+00	5.29E-05	6.03E-05
URBN	Project	Molybdenum	Toddler	6.21E-05	4.90E-09	0.00E+00	0.00E+00	5.34E-06	0.00E+00	1.65E-04	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05	0.00E+00	2.27E-04	2.94E-04
URBN	Project	Selenium	Toddler	4.02E-05	3.17E-09	0.00E+00	0.00E+00	3.46E-07	0.00E+00	8.53E-06	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	2.35E-05	6.41E-05
URBN	Closure	Arsenic	Toddler	1.25E-04	9.89E-09	0.00E+00	0.00E+00	3.24E-06	0.00E+00	8.17E-06	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	1.72E-05	1.46E-04
URBN	Closure	Barium	Toddler	6.39E-03	5.04E-07	0.00E+00	0.00E+00	5.49E-04	0.00E+00	2.23E-03	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-03	0.00E+00	3.86E-03	1.08E-02
URBN	Closure	Beryllium	Toddler	2.34E-05	1.85E-09	0.00E+00	0.00E+00	2.01E-06	0.00E+00	6.85E-07	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	1.28E-06	2.67E-05
URBN	Closure	Chromium	Toddler	4.09E-03	3.23E-07	0.00E+00	0.00E+00	3.52E-04	0.00E+00	2.19E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-03	0.00E+00	5.32E-04	4.98E-03
URBN	Closure	Cobalt	Toddler	5.28E-04	4.16E-08	0.00E+00	0.00E+00	4.54E-05	0.00E+00	1.15E-04	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	1.78E-04	7.51E-04
URBN	Closure	Iron	Toddler	4.12E+00	3.25E-04	0.00E+00	0.00E+00	3.54E-01	0.00E+00	1.82E-01	7.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E+00	0.00E+00	2.52E-01	4.73E+00
URBN	Closure	Lead	Toddler	4.36E-04	3.44E-08	0.00E+00	0.00E+00	2.25E-06	0.00E+00	6.46E-05	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	1.31E-04	5.69E-04
URBN	Closure	Manganese	Toddler	8.20E-02	6.47E-06	0.00E+00	0.00E+00	7.05E-03	0.00E+00	2.22E-01	6.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-02	0.00E+00	2.92E-01	3.81E-01
URBN	Closure	Mercury	Toddler	4.00E-06	3.16E-10	0.00E+00	0.00E+00	3.44E-06	0.00E+00	3.92E-05	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06	0.00E+00	5.29E-05	6.03E-05
URBN	Closure	Molybdenum	Toddler	6.21E-05	4.90E-09	0.00E+00	0.00E+00	5.34E-06	0.00E+00	1.65E-04	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05	0.00E+00	2.27E-04	2.94E-04
URBN	Closure	Selenium	Toddler	4.02E-05	3.17E-09	0.00E+00	0.00E+00	3.46E-07	0.00E+00	8.53E-06	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	2.35E-05	6.41E-05
URBN	Post Closure	Arsenic	Toddler	1.25E-04	9.89E-09	0.00E+00	0.00E+00	3.24E-06	0.00E+00	8.17E-06	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	1.72E-05	1.46E-04
URBN	Post Closure	Barium	Toddler	6.39E-03	5.04E-07	0.00E+00	0.00E+00	5.49E-04	0.00E+00	2.23E-03	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-03	0.00E+00	3.86E-03	1.08E-02
URBN	Post Closure	Beryllium	Toddler	2.34E-05	1.85E-09	0.00E+00	0.00E+00	2.01E-06	0.00E+00	6.85E-07	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	1.28E-06	2.67E-05
URBN	Post Closure	Chromium	Toddler	4.09E-03	3.23E-07	0.00E+00	0.00E+00	3.52E-04	0.00E+00	2.19E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-03	0.00E+00	5.32E-04	4.98E-03
URBN	Post Closure	Cobalt	Toddler	5.28E-04	4.16E-08	0.00E+00	0.00E+00	4.54E-05	0.00E+00	1.15E-04	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	1.78E-04	7.51E-04
URBN	Post Closure	Iron	Toddler	4.12E+00	3.25E-04	0.00E+00	0.00E+00	3.54E-01	0.00E+00	1.82E-01	7.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E+00	0.00E+00	2.52E-01	4.73E+00
URBN	Post Closure	Lead	Toddler	4.36E-04	3.44E-08	0.00E+00	0.00E+00	2.25E-06	0.00E+00	6.46E-05	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	1.31E-04	5.69E-04
URBN	Post Closure	Manganese	Toddler	8.20E-02	6.47E-06	0.00E+00	0.00E+00	7.05E-03	0.00E+00	2.22E-01	6.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-02	0.00E+00	2.92E-01	3.81E-01
URBN	Post Closure	Mercury	Toddler	4.00E-06	3.16E-10	0.00E+00	0.00E+00	3.44E-06	0.00E+00	3.92E-05	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06	0.00E+00	5.29E-05	6.03E-05
URBN	Post Closure	Molybdenum	Toddler	6.21E-05	4.90E-09	0.00E+00	0.00E+00	5.34E-06	0.00E+00	1.65E-04	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05	0.00E+00	2.27E-04	2.94E-04
URBN	Post Closure	Selenium	Toddler	4.02E-05	3.17E-09	0.00E+00	0.00E+00	3.46E-07	0.00E+00	8.53E-06	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	2.35E-05	6.41E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Base	Arsenic	Toddler	1.25E-04	3.24E-06	0.00E+00	0.00E+00	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	1.31E-04
COMM	Base	Barium	Toddler	6.34E-03	1.64E-04	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03	0.00E+00	0.00E+00	7.05E-03
COMM	Base	Beryllium	Toddler	1.60E-05	4.15E-07	0.00E+00	0.00E+00	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	1.78E-05
COMM	Base	Chromium	Toddler	4.08E-03	1.06E-04	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	4.53E-03
COMM	Base	Cobalt	Toddler	5.26E-04	1.36E-05	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04	0.00E+00	0.00E+00	5.85E-04
COMM	Base	Iron	Toddler	4.10E+00	1.06E-01	0.00E+00	0.00E+00	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E+00	0.00E+00	0.00E+00	4.56E+00
COMM	Base	Lead	Toddler	4.34E-04	1.13E-05	0.00E+00	0.00E+00	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	4.48E-04
COMM	Base	Manganese	Toddler	8.16E-02	2.12E-03	0.00E+00	0.00E+00	7.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-02	0.00E+00	0.00E+00	9.07E-02
COMM	Base	Mercury	Toddler	4.00E-06	1.04E-07	0.00E+00	0.00E+00	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06	0.00E+00	0.00E+00	7.54E-06
COMM	Base	Molybdenum	Toddler	6.02E-05	1.56E-06	0.00E+00	0.00E+00	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	6.70E-05
COMM	Base	Selenium	Toddler	4.00E-05	1.04E-06	0.00E+00	0.00E+00	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	4.14E-05
COMM	Project	Arsenic	Toddler	1.25E-04	3.25E-06	0.00E+00	0.00E+00	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
COMM	Project	Barium	Toddler	6.38E-03	1.66E-04	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03	0.00E+00	0.00E+00	7.10E-03
COMM	Project	Beryllium	Toddler	2.34E-05	6.06E-07	0.00E+00	0.00E+00	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.60E-05
COMM	Project	Chromium	Toddler	4.09E-03	1.06E-04	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-03	0.00E+00	0.00E+00	4.55E-03
COMM	Project	Cobalt	Toddler	5.27E-04	1.37E-05	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	5.86E-04
COMM	Project	Iron	Toddler	4.12E+00	1.07E-01	0.00E+00	0.00E+00	3.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	0.00E+00	4.58E+00
COMM	Project	Lead	Toddler	4.35E-04	1.13E-05	0.00E+00	0.00E+00	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	4.49E-04
COMM	Project	Manganese	Toddler	8.20E-02	2.13E-03	0.00E+00	0.00E+00	7.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-02	0.00E+00	0.00E+00	9.11E-02
COMM	Project	Mercury	Toddler	4.00E-06	1.04E-07	0.00E+00	0.00E+00	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	7.55E-06
COMM	Project	Molybdenum	Toddler	6.18E-05	1.60E-06	0.00E+00	0.00E+00	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	6.87E-05
COMM	Project	Selenium	Toddler	4.02E-05	1.04E-06	0.00E+00	0.00E+00	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	4.15E-05
COMM	Closure	Arsenic	Toddler	1.25E-04	3.25E-06	0.00E+00	0.00E+00	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
COMM	Closure	Barium	Toddler	6.38E-03	1.66E-04	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03	0.00E+00	0.00E+00	7.10E-03
COMM	Closure	Beryllium	Toddler	2.34E-05	6.06E-07	0.00E+00	0.00E+00	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.60E-05
COMM	Closure	Chromium	Toddler	4.09E-03	1.06E-04	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-03	0.00E+00	0.00E+00	4.55E-03
COMM	Closure	Cobalt	Toddler	5.27E-04	1.37E-05	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	5.86E-04
COMM	Closure	Iron	Toddler	4.12E+00	1.07E-01	0.00E+00	0.00E+00	3.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	0.00E+00	4.58E+00
COMM	Closure	Lead	Toddler	4.35E-04	1.13E-05	0.00E+00	0.00E+00	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	4.49E-04
COMM	Closure	Manganese	Toddler	8.20E-02	2.13E-03	0.00E+00	0.00E+00	7.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-02	0.00E+00	0.00E+00	9.11E-02
COMM	Closure	Mercury	Toddler	4.00E-06	1.04E-07	0.00E+00	0.00E+00	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	7.55E-06
COMM	Closure	Molybdenum	Toddler	6.18E-05	1.60E-06	0.00E+00	0.00E+00	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	6.87E-05
COMM	Closure	Selenium	Toddler	4.02E-05	1.04E-06	0.00E+00	0.00E+00	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	4.15E-05
COMM	Post Closure	Arsenic	Toddler	1.25E-04	3.25E-06	0.00E+00	0.00E+00	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
COMM	Post Closure	Barium	Toddler	6.38E-03	1.66E-04	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03	0.00E+00	0.00E+00	7.10E-03
COMM	Post Closure	Beryllium	Toddler	2.34E-05	6.06E-07	0.00E+00	0.00E+00	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.60E-05
COMM	Post Closure	Chromium	Toddler	4.09E-03	1.06E-04	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-03	0.00E+00	0.00E+00	4.55E-03
COMM	Post Closure	Cobalt	Toddler	5.27E-04	1.37E-05	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	5.86E-04
COMM	Post Closure	Iron	Toddler	4.12E+00	1.07E-01	0.00E+00	0.00E+00	3.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	0.00E+00	4.58E+00
COMM	Post Closure	Lead	Toddler	4.35E-04	1.13E-05	0.00E+00	0.00E+00	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	4.49E-04
COMM	Post Closure	Manganese	Toddler	8.20E-02	2.13E-03	0.00E+00	0.00E+00	7.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-02	0.00E+00	0.00E+00	9.11E-02
COMM	Post Closure	Mercury	Toddler	4.00E-06	1.04E-07	0.00E+00	0.00E+00	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	7.55E-06
COMM	Post Closure	Molybdenum	Toddler	6.18E-05	1.60E-06	0.00E+00	0.00E+00	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	6.87E-05
COMM	Post Closure	Selenium	Toddler	4.02E-05	1.04E-06	0.00E+00	0.00E+00	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	4.15E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Base	Arsenic	Child	3.12E-05	1.72E-08	2.03E-04	2.75E-05	4.89E-06	5.60E-06	5.91E-05	6.92E-05	3.76E-06	8.17E-05	1.81E-06	3.61E-05	2.64E-06	6.68E-06	3.61E-05	2.31E-04	2.67E-04	5.33E-04
RESI	Base	Barium	Child	1.58E-03	8.73E-07	8.32E-03	1.13E-03	8.28E-04	2.54E-03	1.62E-02	1.24E-02	9.73E-04	9.96E-03	1.78E-06	2.08E-06	3.82E-06	9.97E-04	2.41E-03	9.45E-03	4.32E-02	5.50E-02
RESI	Base	Beryllium	Child	5.80E-06	3.20E-09	8.96E-05	1.21E-05	3.03E-06	7.45E-07	4.77E-06	4.55E-06	2.85E-07	2.31E-04	7.30E-08	3.49E-08	2.42E-07	6.62E-05	8.83E-06	1.02E-04	3.07E-04	4.18E-04
RESI	Base	Chromium	Child	1.02E-03	5.62E-07	1.09E-03	1.47E-04	5.33E-04	2.48E-04	1.58E-03	2.40E-03	9.48E-05	8.58E-04	9.20E-04	5.02E-04	1.59E-03	2.87E-03	1.55E-03	1.24E-03	1.11E-02	1.38E-02
RESI	Base	Cobalt	Child	1.31E-04	7.24E-08	1.25E-04	1.50E-05	6.87E-05	8.43E-05	8.38E-04	4.82E-04	3.23E-05	1.66E-04	2.66E-05	3.90E-04	1.56E-04	4.42E-04	2.00E-04	1.40E-04	2.62E-03	2.96E-03
RESI	Base	Iron	Child	1.03E+00	5.65E-04	3.16E-02	4.28E-03	5.36E-01	1.80E-01	1.31E+00	5.36E-01	6.88E-02	2.66E-01	3.65E-01	7.76E-01	5.09E-01	1.42E+00	1.56E+00	3.59E-02	5.43E+00	7.03E+00
RESI	Base	Lead	Child	1.09E-04	5.98E-08	1.66E-04	1.87E-05	3.40E-06	7.35E-05	4.70E-04	5.11E-04	2.81E-05	6.22E-07	1.24E-07	6.69E-04	2.44E-04	1.23E-03	1.12E-04	1.85E-04	3.22E-03	3.52E-03
RESI	Base	Manganese	Child	2.04E-02	1.12E-05	8.72E-03	1.18E-03	1.07E-02	6.38E-01	1.62E+00	5.34E-01	2.44E-01	1.48E-02	1.25E-02	9.53E-03	3.47E-02	1.76E-02	3.11E-02	9.90E-03	3.13E+00	3.17E+00
RESI	Base	Mercury	Child	1.00E-06	5.51E-10	2.91E-05	3.94E-06	5.23E-06	7.66E-05	2.87E-04	1.05E-04	2.93E-05	1.90E-02	1.67E-05	1.25E-03	1.22E-04	4.09E-04	6.23E-06	3.31E-05	2.13E-02	2.13E-02
RESI	Base	Molybdenum	Child	1.51E-05	8.30E-09	3.11E-04	4.21E-05	7.87E-06	3.83E-04	1.20E-03	4.73E-04	1.47E-04	1.66E-03	1.67E-04	4.18E-04	2.44E-04	4.09E-04	2.29E-05	3.53E-04	5.10E-03	5.48E-03
RESI	Base	Selenium	Child	1.00E-05	5.51E-09	3.77E-04	5.10E-05	5.23E-07	9.71E-06	6.21E-05	1.15E-04	3.72E-06	2.02E-03	2.09E-03	1.13E-02	2.81E-03	6.14E-03	1.05E-05	4.28E-04	2.45E-02	2.50E-02
RESI	Project	Arsenic	Child	3.21E-05	1.77E-08	3.64E-04	4.93E-05	5.03E-06	6.14E-06	6.31E-05	6.94E-05	4.71E-06	1.47E-04	2.23E-06	6.96E-05	3.69E-06	9.54E-06	3.71E-05	4.14E-04	3.75E-04	8.26E-04
RESI	Project	Barium	Child	1.66E-03	9.14E-07	1.07E-02	1.45E-03	8.67E-04	2.63E-03	1.67E-02	1.25E-02	1.06E-03	1.28E-02	2.04E-06	2.13E-06	5.09E-06	1.18E-03	2.53E-03	1.22E-02	4.69E-02	6.16E-02
RESI	Project	Beryllium	Child	6.09E-06	3.36E-09	1.10E-04	1.49E-05	3.18E-06	1.05E-06	6.17E-06	4.58E-06	5.99E-07	2.84E-04	8.27E-08	4.94E-08	2.87E-07	7.64E-05	9.28E-06	1.25E-04	3.73E-04	5.08E-04
RESI	Project	Chromium	Child	1.04E-03	5.73E-07	1.09E-03	1.48E-04	5.44E-04	2.70E-04	1.69E-03	2.41E-03	1.18E-04	8.59E-04	1.07E-03	6.05E-04	2.00E-03	3.48E-03	1.59E-03	1.24E-03	1.25E-02	1.53E-02
RESI	Project	Cobalt	Child	1.34E-04	7.38E-08	1.30E-03	1.56E-04	7.00E-05	8.70E-05	8.51E-04	4.83E-04	3.50E-05	1.73E-03	3.32E-05	6.25E-04	2.09E-04	6.59E-04	2.04E-04	1.46E-03	4.71E-03	6.37E-03
RESI	Project	Iron	Child	1.05E+00	5.80E-04	1.50E-01	2.02E-02	5.50E-01	2.09E-01	1.44E+00	5.38E-01	9.83E-02	1.26E+00	5.56E-01	1.15E+00	7.68E-01	2.31E+00	1.60E+00	1.70E-01	8.32E+00	1.01E+01
RESI	Project	Lead	Child	1.11E-04	6.11E-08	1.47E-04	1.66E-05	3.47E-06	7.60E-05	4.82E-04	5.12E-04	3.06E-05	5.50E-07	1.38E-07	1.95E-04	3.00E-04	8.97E-04	1.14E-04	1.64E-04	2.49E-03	2.77E-03
RESI	Project	Manganese	Child	2.10E-02	1.16E-05	7.81E-02	1.06E-02	1.10E-02	6.40E-01	1.63E+00	5.35E-01	2.46E-01	1.32E-01	1.75E-02	1.97E-03	5.36E-02	5.31E-03	3.20E-02	8.86E-02	3.26E+00	3.38E+00
RESI	Project	Mercury	Child	1.01E-06	5.54E-10	2.75E-05	3.72E-06	5.26E-06	7.67E-05	2.87E-04	1.05E-04	2.94E-05	1.79E-02	1.68E-05	1.24E-03	1.23E-04	4.06E-04	6.26E-06	3.12E-05	2.02E-02	2.02E-02
RESI	Project	Molybdenum	Child	1.78E-05	9.78E-09	1.95E-03	2.64E-04	9.28E-06	3.93E-04	1.23E-03	4.81E-04	1.52E-04	1.04E-02	4.19E-04	1.40E-03	9.03E-04	1.35E-03	2.70E-05	2.22E-03	1.67E-02	1.90E-02
RESI	Project	Selenium	Child	1.03E-05	5.65E-09	7.75E-04	1.05E-04	5.36E-07	1.00E-05	6.35E-05	1.15E-04	4.01E-06	4.15E-03	2.41E-03	3.02E-02	3.48E-03	1.35E-02	1.08E-05	8.80E-04	5.39E-02	5.48E-02
RESI	Closure	Arsenic	Child	3.21E-05	1.77E-08	2.84E-04	3.84E-05	5.03E-06	6.14E-06	6.31E-05	6.94E-05	4.71E-06	1.14E-04	2.23E-06	5.98E-05	3.69E-06	9.06E-06	3.71E-05	3.22E-04	3.32E-04	6.92E-04
RESI	Closure	Barium	Child	1.66E-03	9.14E-07	1.06E-02	1.44E-03	8.67E-04	2.63E-03	1.67E-02	1.25E-02	1.06E-03	1.27E-02	2.04E-06	2.13E-06	5.09E-06	1.18E-03	2.53E-03	1.21E-02	4.68E-02	6.14E-02
RESI	Closure	Beryllium	Child	6.09E-06	3.36E-09	9.53E-05	1.29E-05	3.18E-06	1.05E-06	6.17E-06	4.58E-06	5.99E-07	2.45E-04	8.27E-08	4.64E-08	2.87E-07	7.59E-05	9.28E-06	1.08E-04	3.34E-04	4.52E-04
RESI	Closure	Chromium	Child	1.04E-03	5.73E-07	1.01E-03	1.36E-04	5.44E-04	2.70E-04	1.69E-03	2.41E-03	1.18E-04	7.95E-04	1.07E-03	5.67E-04	2.00E-03	3.37E-03	1.59E-03	1.14E-03	1.23E-02	1.50E-02
RESI	Closure	Cobalt	Child	1.34E-04	7.38E-08	8.32E-04	1.00E-04	7.00E-05	8.70E-05	8.51E-04	4.83E-04	3.50E-05	1.11E-03	3.32E-05	5.70E-04	2.09E-04	6.42E-04	2.04E-04	9.32E-04	4.02E-03	5.15E-03
RESI	Closure	Iron	Child	1.05E+00	5.80E-04	1.22E-01	1.65E-02	5.50E-01	2.09E-01	1.44E+00	5.38E-01	9.83E-02	1.03E+00	5.56E-01	1.07E+00	7.68E-01	2.25E+00	1.60E+00	1.39E-01	7.95E+00	9.69E+00
RESI	Closure	Lead	Child	1.11E-04	6.11E-08	1.38E-04	1.56E-05	3.47E-06	7.60E-05	4.82E-04	5.12E-04	3.06E-05	5.17E-07	1.38E-07	1.86E-04	3.00E-04	8.88E-04	1.14E-04	1.54E-04	2.48E-03	2.74E-03
RESI	Closure	Manganese	Child	2.10E-02	1.16E-05	5.70E-02	7.72E-03	1.10E-02	6.40E-01	1.63E+00	5.35E-01	2.46E-01	9.66E-02	1.75E-02	1.53E-03	5.36E-02	4.56E-03	3.20E-02	6.48E-02	3.23E+00	3.32E+00
RESI	Closure	Mercury	Child	1.01E-06	5.54E-10	2.75E-05	3.72E-06	5.26E-06	7.67E-05	2.87E-04	1.05E-04	2.94E-05	1.79E-02	1.68E-05	1.25E-03	1.23E-04	4.07E-04	6.26E-06	3.12E-05	2.02E-02	2.02E-02
RESI	Closure	Molybdenum	Child	1.78E-05	9.78E-09	1.43E-03	1.93E-04	9.28E-06	3.93E-04	1.23E-03	4.81E-04	1.52E-04	7.61E-03	4.18E-04	1.02E-03	9.02E-04	1.02E-03	2.70E-05	1.62E-03	1.32E-02	1.49E-02
RESI	Closure	Selenium	Child	1.03E-05	5.65E-09	5.82E-04	7.88E-05	5.36E-07	1.00E-05	6.35E-05	1.15E-04	4.01E-06	3.12E-03	2.41E-03	2.28E-02	3.47E-03	1.07E-02	1.08E-05	6.61E-04	4.27E-02	4.34E-02
RESI	Post Closure	Arsenic	Child	3.21E-05	1.77E-08	1.61E-04	2.18E-05	5.03E-06	6.14E-06	6.31E-05	6.94E-05	4.71E-06	6.49E-05	2.23E-06	7.77E-05	3.69E-06	9.93E-06	3.71E-05	1.83E-04	3.02E-04	5.22E-04
RESI	Post Closure	Barium	Child	1.66E-03	9.14E-07	1.05E-02	1.42E-03	8.67E-04	2.63E-03	1.67E-02	1.25E-02	1.06E-03	1.25E-02	2.04E-06	2.11E-06	5.09E-06	1.18E-03	2.53E-03	1.19E-02	4.66E-02	6.10E-02
RESI	Post Closure	Beryllium	Child	6.09E-06	3.36E-09	7.00E-05	9.47E-06	3.18E-06	1.05E-06	6.17E-06	4.58E-06	5.99E-07	1.80E-04	8.27E-08	4.54E-08	2.87E-07	7.57E-05	9.28E-06	7.94E-05	2.69E-04	3.57E-04
RESI	Post Closure	Chromium	Child	1.04E-03	5.73E-07	8.59E-04	1.16E-04	5.44E-04	2.70E-04	1.69E-03	2.41E-03	1.18E-04	6.77E-04	1.07E-03	5.29E-04	2.00E-03	3.25E-03	1.59E-03	9.75E-04	1.20E-02	1.46E-02
RESI	Post Closure	Cobalt	Child	1.34E-04	7.38E-08	1.06E-04	1.28E-05	7.00E-05	8.70E-05	8.51E-04	4.83E-04	3.50E-05	1.41E-04	3.32E-05	5.28E-04	2.09E-04	6.27E-04	2.04E-04	1.19E-04	2.99E-03	3.32E-03
RESI	Post Closure	Iron	Child	1.05E+00	5.80E-04	9.33E-02	1.26E-02	5.50E-01	2.09E-01	1.44E+00	5.38E-01	9.83E-02	7.84E-01	5.56E-01	1.13E+00	7.68E-01	2.29E+00	1.60E+00	1.06E-01	7.82E+00	9.53E+00
RESI	Post Closure	Lead	Child	1.11E-04	6.11E-08	1.12E-04	1.26E-05	3.47E-06	7.60E-05	4.82E-04	5.12E-04	3.06E-05	4.17E-07	1.38E-07	1.71E-04	3.00E-04	8.75E-04	1.14E-04	1.24E-04	2.45E-03	2.69E-03
RESI	Post Closure	Manganese	Child	2.10E-02	1.16E-05	5.17E-02	7.00E-03	1.10E-02	6.40E-01	1.63E+00	5.35E-01	2.46E-01	8.77E-02	1.75E-02	1.43E-03	5.36E-02	4.39E-03	3.20E-02	5.87E-02	3.22E+00	3.31E+00
RESI	Post Closure	Mercury	Child	1.01E-06	5.54E-10	2.65E-05	3.58E-06	5.26E-06	7.67E-05	2.87E-04	1.05E-04	2.94E-05	1.72E-02	1.68E-05	1.23E-03	1.23E-04	4.03E-04	6.26E-06	3.01E-05	1.95E-02	1.95E-02
RESI	Post Closure	Molybdenum	Child	1.78E-05	9.78E-09	9.63E-04	1.30E-04	9.28E-06	3.93E-04	1.23E-03	4.81E-04	1.52E-04	5.14E-03	4.19E-04	1.65E-03	9.03E-04	1.57E-03	2.70E-05	1.09E-03	1.19E-02	1.31E-02
RESI	Post Closure	Selenium	Child	1.03E-05	5.65E-09	2.87E-04	3.89E-05	5.36E-07	1.00E-05	6.35E-05	1.15E-04	4.01E-06	1.54E-03	2.42E-03	5.03E-02	3.49E-03	2.09E-02	1.08E-05	3.26E-04	7.88E-02	7.92E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Base	Arsenic	Child	3.12E-05	1.72E-08	2.03E-04	2.75E-05	4.89E-06	1.12E-06	1.18E-05	1.38E-05	7.53E-07	3.47E-05	3.61E-07	7.22E-06	5.27E-07	1.34E-06	3.61E-05	2.31E-04	7.16E-05	3.38E-04
RECR	Base	Barium	Child	1.58E-03	8.73E-07	8.32E-03	1.13E-03	8.28E-04	5.08E-04	3.25E-03	2.49E-03	1.95E-04	4.22E-03	3.55E-07	4.17E-07	7.64E-07	1.99E-04	2.41E-03	9.45E-03	1.09E-02	2.27E-02
RECR	Base	Beryllium	Child	5.80E-06	3.20E-09	8.96E-05	1.21E-05	3.03E-06	1.49E-07	9.53E-07	9.10E-07	5.71E-08	9.78E-05	1.46E-08	6.98E-09	4.84E-08	1.32E-05	8.83E-06	1.02E-04	1.13E-04	2.24E-04
RECR	Base	Chromium	Child	1.02E-03	5.62E-07	1.09E-03	1.47E-04	5.33E-04	4.95E-05	3.17E-04	4.80E-04	1.90E-05	3.64E-04	1.84E-04	1.00E-04	3.17E-04	5.73E-04	1.55E-03	1.24E-03	2.40E-03	5.19E-03
RECR	Base	Cobalt	Child	1.31E-04	7.24E-08	1.25E-04	1.50E-05	6.87E-05	1.69E-05	1.68E-04	9.63E-05	6.45E-06	7.04E-05	5.32E-06	7.80E-05	3.12E-05	8.84E-05	2.00E-04	1.40E-04	5.60E-04	9.01E-04
RECR	Base	Iron	Child	1.03E+00	5.65E-04	3.16E-02	4.28E-03	5.36E-01	3.60E-02	2.61E-01	1.07E-01	1.38E-02	1.13E-01	7.31E-02	1.55E-01	1.02E-01	2.85E-01	1.56E+00	3.59E-02	1.15E+00	2.74E+00
RECR	Base	Lead	Child	1.09E-04	5.98E-08	1.66E-04	1.87E-05	3.40E-06	1.47E-05	9.40E-05	1.02E-04	5.63E-06	2.64E-07	2.49E-08	1.34E-04	4.88E-05	2.46E-04	1.12E-04	1.85E-04	6.45E-04	9.42E-04
RECR	Base	Manganese	Child	2.04E-02	1.12E-05	8.72E-03	1.18E-03	1.07E-02	1.28E-01	3.25E-01	1.07E-01	4.88E-02	6.27E-03	2.51E-03	1.91E-03	6.94E-03	3.52E-03	3.11E-02	9.90E-03	6.29E-01	6.70E-01
RECR	Base	Mercury	Child	1.00E-06	5.51E-10	2.91E-05	3.94E-06	5.23E-06	1.53E-05	5.73E-05	2.09E-05	5.87E-06	8.04E-03	3.34E-06	2.51E-04	2.44E-05	8.19E-05	6.23E-06	3.31E-05	8.50E-03	8.54E-03
RECR	Base	Molybdenum	Child	1.51E-05	8.30E-09	3.11E-04	4.21E-05	7.87E-06	7.66E-05	2.40E-04	9.46E-05	2.93E-05	7.04E-04	3.34E-05	8.36E-05	4.88E-05	8.19E-05	2.29E-05	3.53E-04	1.39E-03	1.77E-03
RECR	Base	Selenium	Child	1.00E-05	5.51E-09	3.77E-04	5.10E-05	5.23E-07	1.94E-06	1.24E-05	2.30E-05	7.43E-07	8.55E-04	4.18E-04	2.26E-03	5.62E-04	1.23E-03	1.05E-05	4.28E-04	5.36E-03	5.80E-03
RECR	Project	Arsenic	Child	3.21E-05	1.77E-08	3.64E-04	4.93E-05	5.03E-06	1.23E-06	1.26E-05	1.39E-05	9.42E-07	6.22E-05	4.46E-07	1.39E-05	7.38E-07	1.91E-06	3.71E-05	4.14E-04	1.08E-04	5.59E-04
RECR	Project	Barium	Child	1.66E-03	9.14E-07	1.07E-02	1.45E-03	8.67E-04	5.26E-04	3.34E-03	2.50E-03	2.11E-04	5.44E-03	4.07E-07	4.26E-07	1.02E-06	2.36E-04	2.53E-03	1.22E-02	1.22E-02	2.69E-02
RECR	Project	Beryllium	Child	6.09E-06	3.36E-09	1.10E-04	1.49E-05	3.18E-06	2.10E-07	1.23E-06	9.15E-07	1.20E-07	1.21E-04	1.65E-08	9.88E-09	5.73E-08	1.53E-05	9.28E-06	1.25E-04	1.38E-04	2.73E-04
RECR	Project	Chromium	Child	1.04E-03	5.73E-07	1.09E-03	1.48E-04	5.44E-04	5.40E-05	3.38E-04	4.81E-04	2.35E-05	3.65E-04	2.15E-04	1.21E-04	4.01E-04	6.96E-04	1.59E-03	1.24E-03	2.69E-03	5.52E-03
RECR	Project	Cobalt	Child	1.34E-04	7.38E-08	1.30E-03	1.56E-04	7.00E-05	1.74E-05	1.70E-04	9.65E-05	7.00E-06	7.34E-04	6.64E-06	1.25E-04	4.18E-05	1.32E-04	2.04E-04	1.46E-03	1.33E-03	2.99E-03
RECR	Project	Iron	Child	1.05E+00	5.80E-04	1.50E-01	2.02E-02	5.50E-01	4.17E-02	2.88E-01	1.08E-01	1.97E-02	5.33E-01	1.11E-01	2.30E-01	1.54E-01	4.61E-01	1.60E+00	1.70E-01	1.95E+00	3.72E+00
RECR	Project	Lead	Child	1.11E-04	6.11E-08	1.47E-04	1.66E-05	3.47E-06	1.52E-05	9.64E-05	1.02E-04	6.12E-06	2.33E-07	2.76E-08	3.90E-05	6.00E-05	1.79E-04	1.14E-04	1.64E-04	4.99E-04	7.77E-04
RECR	Project	Manganese	Child	2.10E-02	1.16E-05	7.81E-02	1.06E-02	1.10E-02	1.28E-01	3.26E-01	1.07E-01	4.91E-02	5.61E-02	3.49E-03	3.94E-04	1.07E-02	1.06E-03	3.20E-02	8.86E-02	6.82E-01	8.03E-01
RECR	Project	Mercury	Child	1.01E-06	5.54E-10	2.75E-05	3.72E-06	5.26E-06	1.53E-05	5.74E-05	2.09E-05	5.87E-06	7.58E-03	3.35E-06	2.49E-04	2.46E-05	8.13E-05	6.26E-06	3.12E-05	8.04E-03	8.08E-03
RECR	Project	Molybdenum	Child	1.78E-05	9.78E-09	1.95E-03	2.64E-04	9.28E-06	7.85E-05	2.47E-04	9.63E-05	3.04E-05	4.42E-03	8.37E-05	2.79E-04	1.81E-04	2.70E-04	2.70E-05	2.22E-03	5.68E-03	7.93E-03
RECR	Project	Selenium	Child	1.03E-05	5.65E-09	7.75E-04	1.05E-04	5.36E-07	2.00E-06	1.27E-05	2.31E-05	8.01E-07	1.76E-03	4.82E-04	6.04E-03	6.96E-04	2.69E-03	1.08E-05	8.80E-04	1.17E-02	1.26E-02
RECR	Closure	Arsenic	Child	3.21E-05	1.77E-08	2.84E-04	3.84E-05	5.03E-06	1.23E-06	1.26E-05	1.39E-05	9.42E-07	4.84E-05	4.46E-07	1.20E-05	7.38E-07	1.81E-06	3.71E-05	3.22E-04	9.21E-05	4.52E-04
RECR	Closure	Barium	Child	1.66E-03	9.14E-07	1.06E-02	1.44E-03	8.67E-04	5.26E-04	3.34E-03	2.50E-03	2.11E-04	5.40E-03	4.07E-07	4.25E-07	1.02E-06	2.36E-04	2.53E-03	1.21E-02	1.22E-02	2.68E-02
RECR	Closure	Beryllium	Child	6.09E-06	3.36E-09	9.53E-05	1.29E-05	3.18E-06	2.10E-07	1.23E-06	9.15E-07	1.20E-07	1.04E-04	1.65E-08	9.28E-09	5.73E-08	1.52E-05	9.28E-06	1.08E-04	1.22E-04	2.39E-04
RECR	Closure	Chromium	Child	1.04E-03	5.73E-07	1.01E-03	1.36E-04	5.44E-04	5.40E-05	3.38E-04	4.81E-04	2.35E-05	3.37E-04	2.15E-04	1.13E-04	4.01E-04	6.73E-04	1.59E-03	1.14E-03	2.64E-03	5.36E-03
RECR	Closure	Cobalt	Child	1.34E-04	7.38E-08	8.32E-04	1.00E-04	7.00E-05	1.74E-05	1.70E-04	9.65E-05	7.00E-06	4.69E-04	6.64E-06	1.14E-04	4.18E-05	1.28E-04	2.04E-04	9.32E-04	1.05E-03	2.19E-03
RECR	Closure	Iron	Child	1.05E+00	5.80E-04	1.22E-01	1.65E-02	5.50E-01	4.17E-02	2.88E-01	1.08E-01	1.97E-02	4.36E-01	1.11E-01	2.14E-01	1.54E-01	4.50E-01	1.60E+00	1.39E-01	1.82E+00	3.56E+00
RECR	Closure	Lead	Child	1.11E-04	6.11E-08	1.38E-04	1.56E-05	3.47E-06	1.52E-05	9.64E-05	1.02E-04	6.12E-06	2.19E-07	2.76E-08	3.71E-05	6.00E-05	1.78E-04	1.14E-04	1.54E-04	4.95E-04	7.64E-04
RECR	Closure	Manganese	Child	2.10E-02	1.16E-05	5.70E-02	7.72E-03	1.10E-02	1.28E-01	3.26E-01	1.07E-01	4.91E-02	4.10E-02	3.49E-03	3.06E-04	1.07E-02	9.13E-04	3.20E-02	6.48E-02	6.67E-01	7.64E-01
RECR	Closure	Mercury	Child	1.01E-06	5.54E-10	2.75E-05	3.72E-06	5.26E-06	1.53E-05	5.74E-05	2.09E-05	5.87E-06	7.60E-03	3.35E-06	2.49E-04	2.46E-05	8.14E-05	6.26E-06	3.12E-05	8.05E-03	8.09E-03
RECR	Closure	Molybdenum	Child	1.78E-05	9.78E-09	1.43E-03	1.93E-04	9.28E-06	7.85E-05	2.47E-04	9.63E-05	3.04E-05	3.23E-03	8.36E-05	2.05E-04	1.80E-04	2.03E-04	2.70E-05	1.62E-03	4.35E-03	6.00E-03
RECR	Closure	Selenium	Child	1.03E-05	5.65E-09	5.82E-04	7.88E-05	5.36E-07	2.00E-06	1.27E-05	2.31E-05	8.01E-07	1.32E-03	4.82E-04	4.56E-03	6.95E-04	2.15E-03	1.08E-05	6.61E-04	9.24E-03	9.91E-03
RECR	Post Closure	Arsenic	Child	3.21E-05	1.77E-08	1.61E-04	2.18E-05	5.03E-06	1.23E-06	1.26E-05	1.39E-05	9.42E-07	2.75E-05	4.46E-07	1.55E-05	7.38E-07	1.99E-06	3.71E-05	1.83E-04	7.49E-05	2.95E-04
RECR	Post Closure	Barium	Child	1.66E-03	9.14E-07	1.05E-02	1.42E-03	8.67E-04	5.26E-04	3.34E-03	2.50E-03	2.11E-04	5.32E-03	4.07E-07	4.22E-07	1.02E-06	2.36E-04	2.53E-03	1.19E-02	1.21E-02	2.66E-02
RECR	Post Closure	Beryllium	Child	6.09E-06	3.36E-09	7.00E-05	9.47E-06	3.18E-06	2.10E-07	1.23E-06	9.15E-07	1.20E-07	7.63E-05	1.65E-08	9.08E-09	5.73E-08	1.51E-05	9.28E-06	7.94E-05	9.41E-05	1.83E-04
RECR	Post Closure	Chromium	Child	1.04E-03	5.73E-07	8.59E-04	1.16E-04	5.44E-04	5.40E-05	3.38E-04	4.81E-04	2.35E-05	2.87E-04	2.15E-04	1.06E-04	4.01E-04	6.50E-04	1.59E-03	9.75E-04	2.55E-03	5.11E-03
RECR	Post Closure	Cobalt	Child	1.34E-04	7.38E-08	1.06E-04	1.28E-05	7.00E-05	1.74E-05	1.70E-04	9.65E-05	7.00E-06	5.99E-05	6.63E-06	1.06E-04	4.18E-05	1.25E-04	2.04E-04	1.19E-04	6.30E-04	9.54E-04
RECR	Post Closure	Iron	Child	1.05E+00	5.80E-04	9.33E-02	1.26E-02	5.50E-01	4.17E-02	2.88E-01	1.08E-01	1.97E-02	3.33E-01	1.11E-01	2.26E-01	1.54E-01	4.59E-01	1.60E+00	1.06E-01	1.74E+00	3.45E+00
RECR	Post Closure	Lead	Child	1.11E-04	6.11E-08	1.12E-04	1.26E-05	3.47E-06	1.52E-05	9.64E-05	1.02E-04	6.12E-06	1.77E-07	2.76E-08	3.43E-05	6.00E-05	1.75E-04	1.14E-04	1.24E-04	4.90E-04	7.28E-04
RECR	Post Closure	Manganese	Child	2.10E-02	1.16E-05	5.17E-02	7.00E-03	1.10E-02	1.28E-01	3.26E-01	1.07E-01	4.91E-02	3.72E-02	3.49E-03	2.85E-04	1.07E-02	8.78E-04	3.20E-02	5.87E-02	6.63E-01	7.54E-01
RECR	Post Closure	Mercury	Child	1.01E-06	5.54E-10	2.65E-05	3.58E-06	5.26E-06	1.53E-05	5.74E-05	2.09E-05	5.87E-06	7.31E-03	3.35E-06	2.46E-04	2.46E-05	8.06E-05	6.26E-06	3.01E-05	7.76E-03	7.80E-03
RECR	Post Closure	Molybdenum	Child	1.78E-05	9.78E-09	9.63E-04	1.30E-04	9.28E-06	7.85E-05	2.47E-04	9.63E-05	3.04E-05	2.18E-03	8.38E-05	3.30E-04	1.81E-04	3.15E-04	2.70E-05	1.09E-03	3.54E-03	4.66E-03
RECR	Post Closure	Selenium	Child	1.03E-05	5.65E-09	2.87E-04	3.89E-05	5.36E-07	2.00E-06	1.27E-05	2.31E-05	8.01E-07	6.52E-04	4.83E-04	1.01E-02	6.98E-04	4.18E-03	1.08E-05	3.26E-04	1.61E-02	1.64E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Base	Arsenic	Child	3.12E-05	1.72E-08	0.00E+00	0.00E+00	4.89E-06	0.00E+00	1.18E-05	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	2.57E-05	6.18E-05
URBN	Base	Barium	Child	1.58E-03	8.73E-07	0.00E+00	0.00E+00	8.28E-04	0.00E+00	3.25E-03	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	5.74E-03	8.15E-03
URBN	Base	Beryllium	Child	5.80E-06	3.20E-09	0.00E+00	0.00E+00	3.03E-06	0.00E+00	9.53E-07	9.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06	0.00E+00	1.86E-06	1.07E-05
URBN	Base	Chromium	Child	1.02E-03	5.62E-07	0.00E+00	0.00E+00	5.33E-04	0.00E+00	3.17E-04	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	7.97E-04	2.35E-03
URBN	Base	Cobalt	Child	1.31E-04	7.24E-08	0.00E+00	0.00E+00	6.87E-05	0.00E+00	1.68E-04	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	2.64E-04	4.64E-04
URBN	Base	Iron	Child	1.03E+00	5.65E-04	0.00E+00	0.00E+00	5.36E-01	0.00E+00	2.61E-01	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E+00	0.00E+00	3.69E-01	1.93E+00
URBN	Base	Lead	Child	1.09E-04	5.98E-08	0.00E+00	0.00E+00	3.40E-06	0.00E+00	9.40E-05	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	1.96E-04	3.08E-04
URBN	Base	Manganese	Child	2.04E-02	1.12E-05	0.00E+00	0.00E+00	1.07E-02	0.00E+00	3.25E-01	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-02	0.00E+00	4.32E-01	4.63E-01
URBN	Base	Mercury	Child	1.00E-06	5.51E-10	0.00E+00	0.00E+00	5.23E-06	0.00E+00	5.73E-05	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06	0.00E+00	7.83E-05	8.45E-05
URBN	Base	Molybdenum	Child	1.51E-05	8.30E-09	0.00E+00	0.00E+00	7.87E-06	0.00E+00	2.40E-04	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	3.34E-04	3.57E-04
URBN	Base	Selenium	Child	1.00E-05	5.51E-09	0.00E+00	0.00E+00	5.23E-07	0.00E+00	1.24E-05	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	3.54E-05	4.60E-05
URBN	Project	Arsenic	Child	3.14E-05	1.73E-08	0.00E+00	0.00E+00	4.91E-06	0.00E+00	1.20E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	2.58E-05	6.21E-05
URBN	Project	Barium	Child	1.60E-03	8.80E-07	0.00E+00	0.00E+00	8.35E-04	0.00E+00	3.26E-03	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	5.75E-03	8.19E-03
URBN	Project	Beryllium	Child	5.85E-06	3.22E-09	0.00E+00	0.00E+00	3.06E-06	0.00E+00	1.00E-06	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	1.91E-06	1.08E-05
URBN	Project	Chromium	Child	1.02E-03	5.64E-07	0.00E+00	0.00E+00	5.35E-04	0.00E+00	3.20E-04	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	8.01E-04	2.36E-03
URBN	Project	Cobalt	Child	1.32E-04	7.27E-08	0.00E+00	0.00E+00	6.89E-05	0.00E+00	1.68E-04	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	2.64E-04	4.65E-04
URBN	Project	Iron	Child	1.03E+00	5.68E-04	0.00E+00	0.00E+00	5.38E-01	0.00E+00	2.66E-01	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+00	0.00E+00	3.73E-01	1.94E+00
URBN	Project	Lead	Child	1.09E-04	6.00E-08	0.00E+00	0.00E+00	3.41E-06	0.00E+00	9.44E-05	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	1.97E-04	3.09E-04
URBN	Project	Manganese	Child	2.05E-02	1.13E-05	0.00E+00	0.00E+00	1.07E-02	0.00E+00	3.25E-01	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-02	0.00E+00	4.32E-01	4.63E-01
URBN	Project	Mercury	Child	1.00E-06	5.52E-10	0.00E+00	0.00E+00	5.23E-06	0.00E+00	5.73E-05	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06	0.00E+00	7.83E-05	8.45E-05
URBN	Project	Molybdenum	Child	1.55E-05	8.56E-09	0.00E+00	0.00E+00	8.11E-06	0.00E+00	2.41E-04	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	3.36E-04	3.60E-04
URBN	Project	Selenium	Child	1.00E-05	5.53E-09	0.00E+00	0.00E+00	5.25E-07	0.00E+00	1.25E-05	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	3.55E-05	4.61E-05
URBN	Closure	Arsenic	Child	3.14E-05	1.73E-08	0.00E+00	0.00E+00	4.91E-06	0.00E+00	1.20E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	2.58E-05	6.21E-05
URBN	Closure	Barium	Child	1.60E-03	8.80E-07	0.00E+00	0.00E+00	8.35E-04	0.00E+00	3.26E-03	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	5.75E-03	8.19E-03
URBN	Closure	Beryllium	Child	5.85E-06	3.22E-09	0.00E+00	0.00E+00	3.06E-06	0.00E+00	1.00E-06	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	1.91E-06	1.08E-05
URBN	Closure	Chromium	Child	1.02E-03	5.64E-07	0.00E+00	0.00E+00	5.35E-04	0.00E+00	3.20E-04	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	8.01E-04	2.36E-03
URBN	Closure	Cobalt	Child	1.32E-04	7.27E-08	0.00E+00	0.00E+00	6.89E-05	0.00E+00	1.68E-04	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	2.64E-04	4.65E-04
URBN	Closure	Iron	Child	1.03E+00	5.68E-04	0.00E+00	0.00E+00	5.38E-01	0.00E+00	2.66E-01	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+00	0.00E+00	3.73E-01	1.94E+00
URBN	Closure	Lead	Child	1.09E-04	6.00E-08	0.00E+00	0.00E+00	3.41E-06	0.00E+00	9.44E-05	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	1.97E-04	3.09E-04
URBN	Closure	Manganese	Child	2.05E-02	1.13E-05	0.00E+00	0.00E+00	1.07E-02	0.00E+00	3.25E-01	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-02	0.00E+00	4.32E-01	4.63E-01
URBN	Closure	Mercury	Child	1.00E-06	5.52E-10	0.00E+00	0.00E+00	5.23E-06	0.00E+00	5.73E-05	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06	0.00E+00	7.83E-05	8.45E-05
URBN	Closure	Molybdenum	Child	1.55E-05	8.56E-09	0.00E+00	0.00E+00	8.11E-06	0.00E+00	2.41E-04	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	3.36E-04	3.60E-04
URBN	Closure	Selenium	Child	1.00E-05	5.53E-09	0.00E+00	0.00E+00	5.25E-07	0.00E+00	1.25E-05	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	3.55E-05	4.61E-05
URBN	Post Closure	Arsenic	Child	3.14E-05	1.73E-08	0.00E+00	0.00E+00	4.91E-06	0.00E+00	1.20E-05	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	2.58E-05	6.21E-05
URBN	Post Closure	Barium	Child	1.60E-03	8.80E-07	0.00E+00	0.00E+00	8.35E-04	0.00E+00	3.26E-03	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	5.75E-03	8.19E-03
URBN	Post Closure	Beryllium	Child	5.85E-06	3.22E-09	0.00E+00	0.00E+00	3.06E-06	0.00E+00	1.00E-06	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	1.91E-06	1.08E-05
URBN	Post Closure	Chromium	Child	1.02E-03	5.64E-07	0.00E+00	0.00E+00	5.35E-04	0.00E+00	3.20E-04	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	8.01E-04	2.36E-03
URBN	Post Closure	Cobalt	Child	1.32E-04	7.27E-08	0.00E+00	0.00E+00	6.89E-05	0.00E+00	1.68E-04	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	2.64E-04	4.65E-04
URBN	Post Closure	Iron	Child	1.03E+00	5.68E-04	0.00E+00	0.00E+00	5.38E-01	0.00E+00	2.66E-01	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+00	0.00E+00	3.73E-01	1.94E+00
URBN	Post Closure	Lead	Child	1.09E-04	6.00E-08	0.00E+00	0.00E+00	3.41E-06	0.00E+00	9.44E-05	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	1.97E-04	3.09E-04
URBN	Post Closure	Manganese	Child	2.05E-02	1.13E-05	0.00E+00	0.00E+00	1.07E-02	0.00E+00	3.25E-01	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-02	0.00E+00	4.32E-01	4.63E-01
URBN	Post Closure	Mercury	Child	1.00E-06	5.52E-10	0.00E+00	0.00E+00	5.23E-06	0.00E+00	5.73E-05	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06	0.00E+00	7.83E-05	8.45E-05
URBN	Post Closure	Molybdenum	Child	1.55E-05	8.56E-09	0.00E+00	0.00E+00	8.11E-06	0.00E+00	2.41E-04	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	3.36E-04	3.60E-04
URBN	Post Closure	Selenium	Child	1.00E-05	5.53E-09	0.00E+00	0.00E+00	5.25E-07	0.00E+00	1.25E-05	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	3.55E-05	4.61E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Base	Arsenic	Child	3.12E-05	5.66E-06	0.00E+00	0.00E+00	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	4.17E-05
COMM	Base	Barium	Child	1.58E-03	2.87E-04	0.00E+00	0.00E+00	8.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	2.70E-03
COMM	Base	Beryllium	Child	4.00E-06	7.25E-07	0.00E+00	0.00E+00	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-06	0.00E+00	0.00E+00	6.82E-06
COMM	Base	Chromium	Child	1.02E-03	1.85E-04	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	1.74E-03
COMM	Base	Cobalt	Child	1.31E-04	2.38E-05	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04
COMM	Base	Iron	Child	1.03E+00	1.86E-01	0.00E+00	0.00E+00	5.36E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	1.75E+00
COMM	Base	Lead	Child	1.09E-04	1.97E-05	0.00E+00	0.00E+00	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
COMM	Base	Manganese	Child	2.04E-02	3.70E-03	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-02	0.00E+00	0.00E+00	3.48E-02
COMM	Base	Mercury	Child	1.00E-06	1.81E-07	0.00E+00	0.00E+00	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06	0.00E+00	0.00E+00	6.41E-06
COMM	Base	Molybdenum	Child	1.51E-05	2.73E-06	0.00E+00	0.00E+00	7.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	2.57E-05
COMM	Base	Selenium	Child	1.00E-05	1.81E-06	0.00E+00	0.00E+00	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	1.23E-05
COMM	Project	Arsenic	Child	3.13E-05	5.68E-06	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	4.19E-05
COMM	Project	Barium	Child	1.60E-03	2.89E-04	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	2.72E-03
COMM	Project	Beryllium	Child	5.84E-06	1.06E-06	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-06	0.00E+00	0.00E+00	9.95E-06
COMM	Project	Chromium	Child	1.02E-03	1.85E-04	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	1.74E-03
COMM	Project	Cobalt	Child	1.32E-04	2.39E-05	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04
COMM	Project	Iron	Child	1.03E+00	1.87E-01	0.00E+00	0.00E+00	5.38E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	1.75E+00
COMM	Project	Lead	Child	1.09E-04	1.97E-05	0.00E+00	0.00E+00	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
COMM	Project	Manganese	Child	2.05E-02	3.71E-03	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-02	0.00E+00	0.00E+00	3.49E-02
COMM	Project	Mercury	Child	1.00E-06	1.81E-07	0.00E+00	0.00E+00	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06	0.00E+00	0.00E+00	6.41E-06
COMM	Project	Molybdenum	Child	1.55E-05	2.80E-06	0.00E+00	0.00E+00	8.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.63E-05
COMM	Project	Selenium	Child	1.00E-05	1.82E-06	0.00E+00	0.00E+00	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	1.24E-05
COMM	Closure	Arsenic	Child	3.13E-05	5.68E-06	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	4.19E-05
COMM	Closure	Barium	Child	1.60E-03	2.89E-04	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	2.72E-03
COMM	Closure	Beryllium	Child	5.84E-06	1.06E-06	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-06	0.00E+00	0.00E+00	9.95E-06
COMM	Closure	Chromium	Child	1.02E-03	1.85E-04	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	1.74E-03
COMM	Closure	Cobalt	Child	1.32E-04	2.39E-05	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04
COMM	Closure	Iron	Child	1.03E+00	1.87E-01	0.00E+00	0.00E+00	5.38E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	1.75E+00
COMM	Closure	Lead	Child	1.09E-04	1.97E-05	0.00E+00	0.00E+00	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
COMM	Closure	Manganese	Child	2.05E-02	3.71E-03	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-02	0.00E+00	0.00E+00	3.49E-02
COMM	Closure	Mercury	Child	1.00E-06	1.81E-07	0.00E+00	0.00E+00	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06	0.00E+00	0.00E+00	6.41E-06
COMM	Closure	Molybdenum	Child	1.55E-05	2.80E-06	0.00E+00	0.00E+00	8.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.63E-05
COMM	Closure	Selenium	Child	1.00E-05	1.82E-06	0.00E+00	0.00E+00	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	1.24E-05
COMM	Post Closure	Arsenic	Child	3.13E-05	5.68E-06	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	4.19E-05
COMM	Post Closure	Barium	Child	1.60E-03	2.89E-04	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	2.72E-03
COMM	Post Closure	Beryllium	Child	5.84E-06	1.06E-06	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-06	0.00E+00	0.00E+00	9.95E-06
COMM	Post Closure	Chromium	Child	1.02E-03	1.85E-04	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	1.74E-03
COMM	Post Closure	Cobalt	Child	1.32E-04	2.39E-05	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04
COMM	Post Closure	Iron	Child	1.03E+00	1.87E-01	0.00E+00	0.00E+00	5.38E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	1.75E+00
COMM	Post Closure	Lead	Child	1.09E-04	1.97E-05	0.00E+00	0.00E+00	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
COMM	Post Closure	Manganese	Child	2.05E-02	3.71E-03	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-02	0.00E+00	0.00E+00	3.49E-02
COMM	Post Closure	Mercury	Child	1.00E-06	1.81E-07	0.00E+00	0.00E+00	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06	0.00E+00	0.00E+00	6.41E-06
COMM	Post Closure	Molybdenum	Child	1.55E-05	2.80E-06	0.00E+00	0.00E+00	8.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.63E-05
COMM	Post Closure	Selenium	Child	1.00E-05	1.82E-06	0.00E+00	0.00E+00	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	1.24E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Base	Arsenic	Adolescent	3.12E-05	1.85E-08	2.54E-04	2.46E-05	7.11E-06	6.05E-06	7.23E-05	9.76E-05	4.61E-06	9.85E-05	2.19E-06	4.39E-05	5.03E-06	1.11E-05	3.83E-05	2.79E-04	3.41E-04	6.58E-04
RESI	Base	Barium	Adolescent	1.58E-03	9.39E-07	1.04E-02	1.01E-03	1.20E-03	2.74E-03	1.99E-02	1.75E-02	1.19E-03	1.20E-02	2.16E-06	2.53E-06	7.28E-06	1.66E-03	2.79E-03	1.14E-02	5.50E-02	6.92E-02
RESI	Base	Beryllium	Adolescent	5.80E-06	3.44E-09	1.12E-04	1.09E-05	4.41E-06	8.04E-07	5.84E-06	6.42E-06	3.49E-07	2.78E-04	8.87E-08	4.24E-08	4.61E-07	1.10E-04	1.02E-05	1.23E-04	4.02E-04	5.35E-04
RESI	Base	Chromium	Adolescent	1.02E-03	6.04E-07	1.36E-03	1.32E-04	7.75E-04	2.67E-04	1.94E-03	3.38E-03	1.16E-04	1.03E-03	1.12E-03	6.10E-04	3.03E-03	4.76E-03	1.79E-03	1.49E-03	1.63E-02	1.95E-02
RESI	Base	Cobalt	Adolescent	1.31E-04	7.79E-08	1.56E-04	1.22E-05	9.99E-05	9.09E-05	1.03E-03	6.79E-04	3.95E-05	2.00E-04	3.23E-05	4.74E-04	2.97E-04	7.34E-04	2.31E-04	1.68E-04	3.57E-03	3.97E-03
RESI	Base	Iron	Adolescent	1.03E+00	6.08E-04	3.95E-02	3.83E-03	7.79E-01	1.94E-01	1.60E+00	7.56E-01	8.43E-02	3.20E-01	4.44E-01	9.43E-01	9.70E-01	2.37E+00	1.80E+00	4.33E-02	7.68E+00	9.53E+00
RESI	Base	Lead	Adolescent	1.09E-04	6.43E-08	2.08E-04	1.44E-05	4.95E-06	7.93E-05	5.76E-04	7.21E-04	3.45E-05	7.49E-07	1.51E-07	8.13E-04	4.65E-04	2.04E-03	1.14E-04	2.22E-04	4.73E-03	5.06E-03
RESI	Base	Manganese	Adolescent	2.04E-02	1.21E-05	1.09E-02	1.06E-03	1.55E-02	6.88E-01	1.99E+00	7.53E-01	2.99E-01	1.78E-02	1.52E-02	1.16E-02	6.61E-02	2.92E-02	3.59E-02	1.20E-02	3.87E+00	3.92E+00
RESI	Base	Mercury	Adolescent	1.00E-06	5.93E-10	3.64E-05	3.53E-06	7.60E-06	8.27E-05	3.51E-04	1.48E-04	3.59E-05	2.28E-02	2.03E-05	1.52E-03	2.33E-04	6.80E-04	8.60E-06	3.99E-05	2.59E-02	2.60E-02
RESI	Base	Molybdenum	Adolescent	1.51E-05	8.93E-09	3.89E-04	3.77E-05	1.14E-05	4.13E-04	1.47E-03	6.67E-04	1.80E-04	2.00E-03	2.03E-04	5.08E-04	4.65E-04	6.80E-04	2.65E-05	4.27E-04	6.58E-03	7.04E-03
RESI	Base	Selenium	Adolescent	1.00E-05	5.93E-09	4.71E-04	4.57E-05	7.60E-07	1.05E-05	7.61E-05	1.62E-04	4.55E-06	2.43E-03	2.54E-03	1.37E-02	5.35E-03	1.02E-02	1.08E-05	5.17E-04	3.45E-02	3.50E-02
RESI	Project	Arsenic	Adolescent	3.21E-05	1.90E-08	4.56E-04	4.42E-05	7.31E-06	6.62E-06	7.73E-05	9.79E-05	5.77E-06	1.77E-04	2.71E-06	8.45E-05	7.03E-06	1.58E-05	3.94E-05	5.00E-04	4.74E-04	1.01E-03
RESI	Project	Barium	Adolescent	1.66E-03	9.84E-07	1.34E-02	1.30E-03	1.26E-03	2.84E-03	2.04E-02	1.76E-02	1.29E-03	1.54E-02	2.47E-06	2.59E-06	9.69E-06	1.96E-03	2.92E-03	1.47E-02	5.96E-02	7.72E-02
RESI	Project	Beryllium	Adolescent	6.09E-06	3.61E-09	1.38E-04	1.34E-05	4.63E-06	1.13E-06	7.56E-06	6.45E-06	7.34E-07	3.42E-04	1.01E-07	6.00E-08	5.46E-07	1.27E-04	1.07E-05	1.51E-04	4.86E-04	6.48E-04
RESI	Project	Chromium	Adolescent	1.04E-03	6.17E-07	1.36E-03	1.32E-04	7.91E-04	2.92E-04	2.07E-03	3.39E-03	1.44E-04	1.04E-03	1.30E-03	7.35E-04	3.82E-03	5.78E-03	1.83E-03	1.49E-03	1.86E-02	2.19E-02
RESI	Project	Cobalt	Adolescent	1.34E-04	7.94E-08	1.63E-03	1.27E-04	1.02E-04	9.39E-05	1.04E-03	6.80E-04	4.29E-05	2.08E-03	4.04E-05	7.59E-04	3.99E-04	1.10E-03	2.36E-04	1.75E-03	6.24E-03	8.22E-03
RESI	Project	Iron	Adolescent	1.05E+00	6.24E-04	1.87E-01	1.81E-02	8.00E-01	2.25E-01	1.76E+00	7.58E-01	1.20E-01	1.52E+00	6.75E-01	1.40E+00	1.46E+00	3.83E+00	1.85E+00	2.05E-01	1.17E+01	1.38E+01
RESI	Project	Lead	Adolescent	1.11E-04	6.57E-08	1.84E-04	1.27E-05	5.05E-06	8.20E-05	5.90E-04	7.22E-04	3.75E-05	6.62E-07	1.68E-07	2.37E-04	5.72E-04	1.49E-03	1.16E-04	1.97E-04	3.73E-03	4.04E-03
RESI	Project	Manganese	Adolescent	2.10E-02	1.25E-05	9.76E-02	9.46E-03	1.60E-02	6.91E-01	2.00E+00	7.55E-01	3.01E-01	1.59E-01	2.12E-02	2.39E-03	1.02E-01	8.82E-03	3.70E-02	1.07E-01	4.04E+00	4.18E+00
RESI	Project	Mercury	Adolescent	1.01E-06	5.96E-10	3.43E-05	3.33E-06	7.65E-06	8.27E-05	3.51E-04	1.48E-04	3.59E-05	2.15E-02	2.04E-05	1.51E-03	2.34E-04	6.75E-04	8.65E-06	3.77E-05	2.46E-02	2.47E-02
RESI	Project	Molybdenum	Adolescent	1.78E-05	1.05E-08	2.44E-03	2.37E-04	1.35E-05	4.24E-04	1.51E-03	6.79E-04	1.86E-04	1.26E-02	5.09E-04	1.70E-03	1.72E-03	2.24E-03	3.13E-05	2.68E-03	2.15E-02	2.42E-02
RESI	Project	Selenium	Adolescent	1.03E-05	6.08E-09	9.69E-04	9.40E-05	7.80E-07	1.08E-05	7.78E-05	1.63E-04	4.90E-06	5.00E-03	2.93E-03	3.67E-02	6.63E-03	2.24E-02	1.10E-05	1.06E-03	7.39E-02	7.49E-02
RESI	Closure	Arsenic	Adolescent	3.21E-05	1.90E-08	3.55E-04	3.44E-05	7.31E-06	6.62E-06	7.73E-05	9.79E-05	5.77E-06	1.38E-04	2.71E-06	7.27E-05	7.03E-06	1.51E-05	3.94E-05	3.89E-04	4.23E-04	8.51E-04
RESI	Closure	Barium	Adolescent	1.66E-03	9.84E-07	1.33E-02	1.29E-03	1.26E-03	2.84E-03	2.04E-02	1.76E-02	1.29E-03	1.54E-02	2.47E-06	2.58E-06	9.69E-06	1.96E-03	2.92E-03	1.46E-02	5.95E-02	7.70E-02
RESI	Closure	Beryllium	Adolescent	6.09E-06	3.61E-09	1.19E-04	1.16E-05	4.63E-06	1.13E-06	7.56E-06	6.45E-06	7.34E-07	2.96E-04	1.01E-07	5.64E-08	5.46E-07	1.26E-04	1.07E-05	1.31E-04	4.38E-04	5.80E-04
RESI	Closure	Chromium	Adolescent	1.04E-03	6.17E-07	1.26E-03	1.22E-04	7.91E-04	2.92E-04	2.07E-03	3.39E-03	1.44E-04	9.57E-04	1.30E-03	6.89E-04	3.82E-03	5.59E-03	1.83E-03	1.38E-03	1.83E-02	2.15E-02
RESI	Closure	Cobalt	Adolescent	1.34E-04	7.94E-08	1.04E-03	8.15E-05	1.02E-04	9.39E-05	1.04E-03	6.80E-04	4.29E-05	1.33E-03	4.03E-05	6.93E-04	3.98E-04	1.07E-03	2.36E-04	1.12E-03	5.39E-03	6.75E-03
RESI	Closure	Iron	Adolescent	1.05E+00	6.24E-04	1.53E-01	1.48E-02	8.00E-01	2.25E-01	1.76E+00	7.58E-01	1.20E-01	1.24E+00	6.75E-01	1.30E+00	1.46E+00	3.74E+00	1.85E+00	1.68E-01	1.13E+01	1.33E+01
RESI	Closure	Lead	Adolescent	1.11E-04	6.57E-08	1.73E-04	1.20E-05	5.05E-06	8.20E-05	5.90E-04	7.22E-04	3.75E-05	6.23E-07	1.68E-07	2.26E-04	5.72E-04	1.48E-03	1.16E-04	1.85E-04	3.71E-03	4.01E-03
RESI	Closure	Manganese	Adolescent	2.10E-02	1.25E-05	7.13E-02	6.91E-03	1.60E-02	6.91E-01	2.00E+00	7.55E-01	3.01E-01	1.16E-01	2.12E-02	1.86E-03	1.02E-01	7.58E-03	3.70E-02	7.82E-02	3.99E+00	4.11E+00
RESI	Closure	Mercury	Adolescent	1.01E-06	5.96E-10	3.44E-05	3.33E-06	7.65E-06	8.27E-05	3.51E-04	1.48E-04	3.59E-05	2.16E-02	2.04E-05	1.51E-03	2.34E-04	6.76E-04	8.65E-06	3.77E-05	2.46E-02	2.47E-02
RESI	Closure	Molybdenum	Adolescent	1.78E-05	1.05E-08	1.78E-03	1.73E-04	1.35E-05	4.24E-04	1.51E-03	6.79E-04	1.86E-04	9.16E-03	5.08E-04	1.24E-03	1.72E-03	1.69E-03	3.13E-05	1.96E-03	1.71E-02	1.91E-02
RESI	Closure	Selenium	Adolescent	1.03E-05	6.08E-09	7.28E-04	7.06E-05	7.80E-07	1.08E-05	7.78E-05	1.63E-04	4.90E-06	3.76E-03	2.93E-03	2.77E-02	6.62E-03	1.78E-02	1.10E-05	7.99E-04	5.91E-02	5.99E-02
RESI	Post Closure	Arsenic	Adolescent	3.21E-05	1.90E-08	2.02E-04	1.95E-05	7.31E-06	6.62E-06	7.73E-05	9.79E-05	5.77E-06	7.82E-05	2.71E-06	9.45E-05	7.03E-06	1.65E-05	3.94E-05	2.21E-04	3.86E-04	6.47E-04
RESI	Post Closure	Barium	Adolescent	1.66E-03	9.84E-07	1.31E-02	1.27E-03	1.26E-03	2.84E-03	2.04E-02	1.76E-02	1.29E-03	1.51E-02	2.47E-06	2.57E-06	9.69E-06	1.96E-03	2.92E-03	1.44E-02	5.93E-02	7.65E-02
RESI	Post Closure	Beryllium	Adolescent	6.09E-06	3.61E-09	8.75E-05	8.48E-06	4.63E-06	1.13E-06	7.56E-06	6.45E-06	7.34E-07	2.17E-04	1.01E-07	5.51E-08	5.46E-07	1.26E-04	1.07E-05	9.59E-05	3.59E-04	4.66E-04
RESI	Post Closure	Chromium	Adolescent	1.04E-03	6.17E-07	1.07E-03	1.04E-04	7.91E-04	2.92E-04	2.07E-03	3.39E-03	1.44E-04	8.16E-04	1.30E-03	6.42E-04	3.82E-03	5.40E-03	1.83E-03	1.18E-03	1.79E-02	2.09E-02
RESI	Post Closure	Cobalt	Adolescent	1.34E-04	7.94E-08	1.33E-04	1.04E-05	1.02E-04	9.39E-05	1.04E-03	6.80E-04	4.29E-05	1.70E-04	4.03E-05	6.41E-04	3.98E-04	1.04E-03	2.36E-04	1.43E-04	4.15E-03	4.53E-03
RESI	Post Closure	Iron	Adolescent	1.05E+00	6.24E-04	1.17E-01	1.13E-02	8.00E-01	2.25E-01	1.76E+00	7.58E-01	1.20E-01	9.45E-01	6.75E-01	1.38E+00	1.46E+00	3.81E+00	1.85E+00	1.28E-01	1.11E+01	1.31E+01
RESI	Post Closure	Lead	Adolescent	1.11E-04	6.57E-08	1.40E-04	9.64E-06	5.05E-06	8.20E-05	5.90E-04	7.22E-04	3.75E-05	5.02E-07	1.68E-07	2.08E-04	5.72E-04	1.45E-03	1.16E-04	1.49E-04	3.67E-03	3.93E-03
RESI	Post Closure	Manganese	Adolescent	2.10E-02	1.25E-05	6.47E-02	6.27E-03	1.60E-02	6.91E-01	2.00E+00	7.55E-01	3.01E-01	1.06E-01	2.12E-02	1.73E-03	1.02E-01	7.29E-03	3.70E-02	7.09E-02	3.98E+00	4.09E+00
RESI	Post Closure	Mercury	Adolescent	1.01E-06	5.96E-10	3.31E-05	3.21E-06	7.65E-06	8.27E-05	3.51E-04	1.48E-04	3.59E-05	2.08E-02	2.04E-05	1.50E-03	2.34E-04	6.69E-04	8.65E-06	3.63E-05	2.38E-02	2.38E-02
RESI	Post Closure	Molybdenum	Adolescent	1.78E-05	1.05E-08	1.20E-03	1.17E-04	1.35E-05	4.24E-04	1.51E-03	6.79E-04	1.86E-04	6.19E-03	5.09E-04	2.01E-03	1.72E-03	2.62E-03	3.13E-05	1.32E-03	1.58E-02	1.72E-02
RESI	Post Closure	Selenium	Adolescent	1.03E-05	6.08E-09	3.59E-04	3.48E-05	7.80E-07	1.08E-05	7.78E-05	1.63E-04	4.90E-06	1.85E-03	2.94E-03	6.11E-02	6.65E-03	3.47E-02	1.10E-05	3.94E-04	1.08E-01	1.08E-01

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Base	Arsenic	Adolescent	3.12E-05	1.85E-08	2.54E-04	2.46E-05	7.11E-06	1.21E-06	1.45E-05	1.95E-05	9.22E-07	5.41E-05	4.39E-07	8.78E-06	1.01E-06	2.22E-06	3.83E-05	2.79E-04	1.03E-04	4.20E-04
RECR	Base	Barium	Adolescent	1.58E-03	9.39E-07	1.04E-02	1.01E-03	1.20E-03	5.48E-04	3.98E-03	3.51E-03	2.38E-04	6.60E-03	4.32E-07	5.07E-07	1.46E-06	3.31E-04	2.79E-03	1.14E-02	1.52E-02	2.94E-02
RECR	Base	Beryllium	Adolescent	5.80E-06	3.44E-09	1.12E-04	1.09E-05	4.41E-06	1.61E-07	1.17E-06	1.28E-06	6.99E-08	1.53E-04	1.77E-08	8.48E-09	9.22E-08	2.20E-05	1.02E-05	1.23E-04	1.78E-04	3.11E-04
RECR	Base	Chromium	Adolescent	1.02E-03	6.04E-07	1.36E-03	1.32E-04	7.75E-04	5.35E-05	3.88E-04	6.77E-04	2.32E-05	5.68E-04	2.24E-04	1.22E-04	6.05E-04	9.52E-04	1.79E-03	1.49E-03	3.61E-03	6.90E-03
RECR	Base	Cobalt	Adolescent	1.31E-04	7.79E-08	1.56E-04	1.22E-05	9.99E-05	1.82E-05	2.05E-04	1.36E-04	7.90E-06	1.10E-04	6.46E-06	9.48E-05	5.94E-05	1.47E-04	2.31E-04	1.68E-04	7.85E-04	1.18E-03
RECR	Base	Iron	Adolescent	1.03E+00	6.08E-04	3.95E-02	3.83E-03	7.79E-01	3.88E-02	3.20E-01	1.51E-01	1.69E-02	1.76E-01	8.88E-02	1.89E-01	1.94E-01	4.73E-01	1.80E+00	4.33E-02	1.65E+00	3.50E+00
RECR	Base	Lead	Adolescent	1.09E-04	6.43E-08	2.08E-04	1.44E-05	4.95E-06	1.59E-05	1.15E-04	1.44E-04	6.89E-06	4.12E-07	3.02E-08	1.63E-04	9.31E-05	4.08E-04	1.14E-04	2.22E-04	9.46E-04	1.28E-03
RECR	Base	Manganese	Adolescent	2.04E-02	1.21E-05	1.09E-02	1.06E-03	1.55E-02	1.38E-01	3.98E-01	1.51E-01	5.98E-02	9.79E-03	3.05E-03	2.32E-03	1.32E-02	5.85E-03	3.59E-02	1.20E-02	7.80E-01	8.28E-01
RECR	Base	Mercury	Adolescent	1.00E-06	5.93E-10	3.64E-05	3.53E-06	7.60E-06	1.65E-05	7.02E-05	2.95E-05	7.18E-06	1.26E-02	4.06E-06	3.05E-04	4.65E-05	1.36E-04	8.60E-06	3.99E-05	1.32E-02	1.32E-02
RECR	Base	Molybdenum	Adolescent	1.51E-05	8.93E-09	3.89E-04	3.77E-05	1.14E-05	8.27E-05	2.94E-04	1.33E-04	3.59E-05	1.10E-03	4.06E-05	1.02E-04	9.31E-05	1.36E-04	2.65E-05	4.27E-04	2.02E-03	2.47E-03
RECR	Base	Selenium	Adolescent	1.00E-05	5.93E-09	4.71E-04	4.57E-05	7.60E-07	2.10E-06	1.52E-05	3.25E-05	9.10E-07	1.34E-03	5.08E-04	2.74E-03	1.07E-03	2.04E-03	1.08E-05	5.17E-04	7.75E-03	8.28E-03
RECR	Project	Arsenic	Adolescent	3.21E-05	1.90E-08	4.56E-04	4.42E-05	7.31E-06	1.32E-06	1.55E-05	1.96E-05	1.15E-06	9.71E-05	5.42E-07	1.69E-05	1.41E-06	3.17E-06	3.94E-05	5.00E-04	1.57E-04	6.96E-04
RECR	Project	Barium	Adolescent	1.66E-03	9.84E-07	1.34E-02	1.30E-03	1.26E-03	5.67E-04	4.08E-03	3.52E-03	2.59E-04	8.50E-03	4.95E-07	5.18E-07	1.94E-06	3.92E-04	2.92E-03	1.47E-02	1.73E-02	3.49E-02
RECR	Project	Beryllium	Adolescent	6.09E-06	3.61E-09	1.38E-04	1.34E-05	4.63E-06	2.27E-07	1.51E-06	1.29E-06	1.47E-07	1.88E-04	2.01E-08	1.20E-08	1.09E-07	2.54E-05	1.07E-05	1.51E-04	2.17E-04	3.79E-04
RECR	Project	Chromium	Adolescent	1.04E-03	6.17E-07	1.36E-03	1.32E-04	7.91E-04	5.83E-05	4.13E-04	6.78E-04	2.88E-05	5.70E-04	2.61E-04	1.47E-04	7.64E-04	1.16E-03	1.83E-03	1.49E-03	4.08E-03	7.40E-03
RECR	Project	Cobalt	Adolescent	1.34E-04	7.94E-08	1.63E-03	1.27E-04	1.02E-04	1.88E-05	2.08E-04	1.36E-04	8.57E-06	1.15E-03	8.07E-06	1.52E-04	7.98E-05	2.19E-04	2.36E-04	1.75E-03	1.98E-03	3.97E-03
RECR	Project	Iron	Adolescent	1.05E+00	6.24E-04	1.87E-01	1.81E-02	8.00E-01	4.50E-02	3.52E-01	1.52E-01	2.41E-02	8.33E-01	1.35E-01	2.80E-01	2.93E-01	7.66E-01	1.85E+00	2.05E-01	2.88E+00	4.94E+00
RECR	Project	Lead	Adolescent	1.11E-04	6.57E-08	1.84E-04	1.27E-05	5.05E-06	1.64E-05	1.18E-04	1.44E-04	7.50E-06	3.64E-07	3.35E-08	4.74E-05	1.14E-04	2.98E-04	1.16E-04	1.97E-04	7.46E-04	1.06E-03
RECR	Project	Manganese	Adolescent	2.10E-02	1.25E-05	9.76E-02	9.46E-03	1.60E-02	1.38E-01	4.00E-01	1.51E-01	6.01E-02	8.76E-02	4.24E-03	4.79E-04	2.04E-02	1.76E-03	3.70E-02	1.07E-01	8.64E-01	1.01E+00
RECR	Project	Mercury	Adolescent	1.01E-06	5.96E-10	3.43E-05	3.33E-06	7.65E-06	1.65E-05	7.02E-05	2.95E-05	7.19E-06	1.19E-02	4.07E-06	3.02E-04	4.68E-05	1.35E-04	8.65E-06	3.77E-05	1.25E-02	1.25E-02
RECR	Project	Molybdenum	Adolescent	1.78E-05	1.05E-08	2.44E-03	2.37E-04	1.35E-05	8.47E-05	3.02E-04	1.36E-04	3.73E-05	6.90E-03	1.02E-04	3.39E-04	3.44E-04	4.48E-04	3.13E-05	2.68E-03	8.70E-03	1.14E-02
RECR	Project	Selenium	Adolescent	1.03E-05	6.08E-09	9.69E-04	9.40E-05	7.80E-07	2.16E-06	1.56E-05	3.25E-05	9.81E-07	2.75E-03	5.86E-04	7.34E-03	1.33E-03	4.47E-03	1.10E-05	1.06E-03	1.65E-02	1.76E-02
RECR	Closure	Arsenic	Adolescent	3.21E-05	1.90E-08	3.55E-04	3.44E-05	7.31E-06	1.32E-06	1.55E-05	1.96E-05	1.15E-06	7.57E-05	5.42E-07	1.45E-05	1.41E-06	3.01E-06	3.94E-05	3.89E-04	1.33E-04	5.61E-04
RECR	Closure	Barium	Adolescent	1.66E-03	9.84E-07	1.33E-02	1.29E-03	1.26E-03	5.67E-04	4.08E-03	3.52E-03	2.59E-04	8.44E-03	4.95E-07	5.17E-07	1.94E-06	3.92E-04	2.92E-03	1.46E-02	1.73E-02	3.48E-02
RECR	Closure	Beryllium	Adolescent	6.09E-06	3.61E-09	1.19E-04	1.16E-05	4.63E-06	2.27E-07	1.51E-06	1.29E-06	1.47E-07	1.63E-04	2.01E-08	1.13E-08	1.09E-07	2.52E-05	1.07E-05	1.31E-04	1.91E-04	3.33E-04
RECR	Closure	Chromium	Adolescent	1.04E-03	6.17E-07	1.26E-03	1.22E-04	7.91E-04	5.83E-05	4.13E-04	6.78E-04	2.88E-05	5.27E-04	2.61E-04	1.38E-04	7.64E-04	1.12E-03	1.83E-03	1.38E-03	3.99E-03	7.20E-03
RECR	Closure	Cobalt	Adolescent	1.34E-04	7.94E-08	1.04E-03	8.15E-05	1.02E-04	1.88E-05	2.08E-04	1.36E-04	8.57E-06	7.33E-04	8.07E-06	1.39E-04	7.97E-05	2.13E-04	2.36E-04	1.12E-03	1.54E-03	2.90E-03
RECR	Closure	Iron	Adolescent	1.05E+00	6.24E-04	1.53E-01	1.48E-02	8.00E-01	4.50E-02	3.52E-01	1.52E-01	2.41E-02	6.81E-01	1.35E-01	2.60E-01	2.93E-01	7.47E-01	1.85E+00	1.68E-01	2.69E+00	4.71E+00
RECR	Closure	Lead	Adolescent	1.11E-04	6.57E-08	1.73E-04	1.20E-05	5.05E-06	1.64E-05	1.18E-04	1.44E-04	7.50E-06	3.43E-07	3.35E-08	4.51E-05	1.14E-04	2.95E-04	1.16E-04	1.85E-04	7.41E-04	1.04E-03
RECR	Closure	Manganese	Adolescent	2.10E-02	1.25E-05	7.13E-02	6.91E-03	1.60E-02	1.38E-01	4.00E-01	1.51E-01	6.01E-02	6.40E-02	4.24E-03	3.72E-04	2.04E-02	1.52E-03	3.70E-02	7.82E-02	8.40E-01	9.55E-01
RECR	Closure	Mercury	Adolescent	1.01E-06	5.96E-10	3.44E-05	3.33E-06	7.65E-06	1.65E-05	7.02E-05	2.95E-05	7.19E-06	1.19E-02	4.07E-06	3.03E-04	4.68E-05	1.35E-04	8.65E-06	3.77E-05	1.25E-02	1.25E-02
RECR	Closure	Molybdenum	Adolescent	1.78E-05	1.05E-08	1.78E-03	1.73E-04	1.35E-05	8.47E-05	3.02E-04	1.36E-04	3.73E-05	5.04E-03	1.02E-04	2.49E-04	3.44E-04	3.38E-04	3.13E-05	1.96E-03	6.63E-03	8.62E-03
RECR	Closure	Selenium	Adolescent	1.03E-05	6.08E-09	7.28E-04	7.06E-05	7.80E-07	2.16E-06	1.56E-05	3.25E-05	9.81E-07	2.07E-03	5.86E-04	5.54E-03	1.32E-03	3.56E-03	1.10E-05	7.99E-04	1.31E-02	1.39E-02
RECR	Post Closure	Arsenic	Adolescent	3.21E-05	1.90E-08	2.02E-04	1.95E-05	7.31E-06	1.32E-06	1.55E-05	1.96E-05	1.15E-06	4.30E-05	5.42E-07	1.89E-05	1.41E-06	3.30E-06	3.94E-05	2.21E-04	1.05E-04	3.65E-04
RECR	Post Closure	Barium	Adolescent	1.66E-03	9.84E-07	1.31E-02	1.27E-03	1.26E-03	5.67E-04	4.08E-03	3.52E-03	2.59E-04	8.31E-03	4.95E-07	5.13E-07	1.94E-06	3.91E-04	2.92E-03	1.44E-02	1.71E-02	3.44E-02
RECR	Post Closure	Beryllium	Adolescent	6.09E-06	3.61E-09	8.75E-05	8.48E-06	4.63E-06	2.27E-07	1.51E-06	1.29E-06	1.47E-07	1.19E-04	2.01E-08	1.10E-08	1.09E-07	2.51E-05	1.07E-05	9.59E-05	1.48E-04	2.54E-04
RECR	Post Closure	Chromium	Adolescent	1.04E-03	6.17E-07	1.07E-03	1.04E-04	7.91E-04	5.83E-05	4.13E-04	6.78E-04	2.88E-05	4.49E-04	2.61E-04	1.28E-04	7.64E-04	1.08E-03	1.83E-03	1.18E-03	3.86E-03	6.87E-03
RECR	Post Closure	Cobalt	Adolescent	1.34E-04	7.94E-08	1.33E-04	1.04E-05	1.02E-04	1.88E-05	2.08E-04	1.36E-04	8.57E-06	9.37E-05	8.06E-06	1.28E-04	7.96E-05	2.08E-04	2.36E-04	1.43E-04	8.90E-04	1.27E-03
RECR	Post Closure	Iron	Adolescent	1.05E+00	6.24E-04	1.17E-01	1.13E-02	8.00E-01	4.50E-02	3.52E-01	1.52E-01	2.41E-02	5.20E-01	1.35E-01	2.75E-01	2.93E-01	7.62E-01	1.85E+00	1.28E-01	2.56E+00	4.54E+00
RECR	Post Closure	Lead	Adolescent	1.11E-04	6.57E-08	1.40E-04	9.64E-06	5.05E-06	1.64E-05	1.18E-04	1.44E-04	7.50E-06	2.76E-07	3.35E-08	4.16E-05	1.14E-04	2.91E-04	1.16E-04	1.49E-04	7.33E-04	9.99E-04
RECR	Post Closure	Manganese	Adolescent	2.10E-02	1.25E-05	6.47E-02	6.27E-03	1.60E-02	1.38E-01	4.00E-01	1.51E-01	6.01E-02	5.81E-02	4.24E-03	3.47E-04	2.04E-02	1.46E-03	3.70E-02	7.09E-02	8.34E-01	9.41E-01
RECR	Post Closure	Mercury	Adolescent	1.01E-06	5.96E-10	3.31E-05	3.21E-06	7.65E-06	1.65E-05	7.02E-05	2.95E-05	7.19E-06	1.14E-02	4.07E-06	2.99E-04	4.68E-05	1.34E-04	8.65E-06	3.63E-05	1.20E-02	1.21E-02
RECR	Post Closure	Molybdenum	Adolescent	1.78E-05	1.05E-08	1.20E-03	1.17E-04	1.35E-05	8.47E-05	3.02E-04	1.36E-04	3.73E-05	3.40E-03	1.02E-04	4.01E-04	3.44E-04	5.23E-04	3.13E-05	1.32E-03	5.33E-03	6.69E-03
RECR	Post Closure	Selenium	Adolescent	1.03E-05	6.08E-09	3.59E-04	3.48E-05	7.80E-07	2.16E-06	1.56E-05	3.25E-05	9.81E-07	1.02E-03	5.88E-04	1.22E-02	1.33E-03	6.94E-03	1.10E-05	3.94E-04	2.22E-02	2.26E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Base	Arsenic	Adolescent	3.12E-05	1.85E-08	0.00E+00	0.00E+00	7.11E-06	0.00E+00	1.45E-05	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	3.40E-05	7.23E-05
URBN	Base	Barium	Adolescent	1.58E-03	9.39E-07	0.00E+00	0.00E+00	1.20E-03	0.00E+00	3.98E-03	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	7.49E-03	1.03E-02
URBN	Base	Beryllium	Adolescent	5.80E-06	3.44E-09	0.00E+00	0.00E+00	4.41E-06	0.00E+00	1.17E-06	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	2.45E-06	1.27E-05
URBN	Base	Chromium	Adolescent	1.02E-03	6.04E-07	0.00E+00	0.00E+00	7.75E-04	0.00E+00	3.88E-04	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	1.06E-03	2.86E-03
URBN	Base	Cobalt	Adolescent	1.31E-04	7.79E-08	0.00E+00	0.00E+00	9.99E-05	0.00E+00	2.05E-04	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	3.41E-04	5.72E-04
URBN	Base	Iron	Adolescent	1.03E+00	6.08E-04	0.00E+00	0.00E+00	7.79E-01	0.00E+00	3.20E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E+00	0.00E+00	4.71E-01	2.28E+00
URBN	Base	Lead	Adolescent	1.09E-04	6.43E-08	0.00E+00	0.00E+00	4.95E-06	0.00E+00	1.15E-04	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	2.59E-04	3.73E-04
URBN	Base	Manganese	Adolescent	2.04E-02	1.21E-05	0.00E+00	0.00E+00	1.55E-02	0.00E+00	3.98E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-02	0.00E+00	5.48E-01	5.84E-01
URBN	Base	Mercury	Adolescent	1.00E-06	5.93E-10	0.00E+00	0.00E+00	7.60E-06	0.00E+00	7.02E-05	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-06	0.00E+00	9.97E-05	1.08E-04
URBN	Base	Molybdenum	Adolescent	1.51E-05	8.93E-09	0.00E+00	0.00E+00	1.14E-05	0.00E+00	2.94E-04	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	4.27E-04	4.54E-04
URBN	Base	Selenium	Adolescent	1.00E-05	5.93E-09	0.00E+00	0.00E+00	7.60E-07	0.00E+00	1.52E-05	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	4.77E-05	5.84E-05
URBN	Project	Arsenic	Adolescent	3.14E-05	1.86E-08	0.00E+00	0.00E+00	7.15E-06	0.00E+00	1.46E-05	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	3.42E-05	7.27E-05
URBN	Project	Barium	Adolescent	1.60E-03	9.47E-07	0.00E+00	0.00E+00	1.21E-03	0.00E+00	4.00E-03	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	7.51E-03	1.03E-02
URBN	Project	Beryllium	Adolescent	5.85E-06	3.47E-09	0.00E+00	0.00E+00	4.45E-06	0.00E+00	1.23E-06	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	2.51E-06	1.28E-05
URBN	Project	Chromium	Adolescent	1.02E-03	6.06E-07	0.00E+00	0.00E+00	7.78E-04	0.00E+00	3.92E-04	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	1.07E-03	2.87E-03
URBN	Project	Cobalt	Adolescent	1.32E-04	7.82E-08	0.00E+00	0.00E+00	1.00E-04	0.00E+00	2.06E-04	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	3.42E-04	5.74E-04
URBN	Project	Iron	Adolescent	1.03E+00	6.11E-04	0.00E+00	0.00E+00	7.83E-01	0.00E+00	3.26E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+00	0.00E+00	4.77E-01	2.29E+00
URBN	Project	Lead	Adolescent	1.09E-04	6.46E-08	0.00E+00	0.00E+00	4.97E-06	0.00E+00	1.16E-04	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	2.60E-04	3.74E-04
URBN	Project	Manganese	Adolescent	2.05E-02	1.22E-05	0.00E+00	0.00E+00	1.56E-02	0.00E+00	3.98E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-02	0.00E+00	5.49E-01	5.85E-01
URBN	Project	Mercury	Adolescent	1.00E-06	5.93E-10	0.00E+00	0.00E+00	7.61E-06	0.00E+00	7.02E-05	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	9.97E-05	1.08E-04
URBN	Project	Molybdenum	Adolescent	1.55E-05	9.20E-09	0.00E+00	0.00E+00	1.18E-05	0.00E+00	2.95E-04	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	4.29E-04	4.56E-04
URBN	Project	Selenium	Adolescent	1.00E-05	5.95E-09	0.00E+00	0.00E+00	7.63E-07	0.00E+00	1.53E-05	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	4.77E-05	5.86E-05
URBN	Closure	Arsenic	Adolescent	3.14E-05	1.86E-08	0.00E+00	0.00E+00	7.15E-06	0.00E+00	1.46E-05	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	3.42E-05	7.27E-05
URBN	Closure	Barium	Adolescent	1.60E-03	9.47E-07	0.00E+00	0.00E+00	1.21E-03	0.00E+00	4.00E-03	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	7.51E-03	1.03E-02
URBN	Closure	Beryllium	Adolescent	5.85E-06	3.47E-09	0.00E+00	0.00E+00	4.45E-06	0.00E+00	1.23E-06	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	2.51E-06	1.28E-05
URBN	Closure	Chromium	Adolescent	1.02E-03	6.06E-07	0.00E+00	0.00E+00	7.78E-04	0.00E+00	3.92E-04	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	1.07E-03	2.87E-03
URBN	Closure	Cobalt	Adolescent	1.32E-04	7.82E-08	0.00E+00	0.00E+00	1.00E-04	0.00E+00	2.06E-04	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	3.42E-04	5.74E-04
URBN	Closure	Iron	Adolescent	1.03E+00	6.11E-04	0.00E+00	0.00E+00	7.83E-01	0.00E+00	3.26E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+00	0.00E+00	4.77E-01	2.29E+00
URBN	Closure	Lead	Adolescent	1.09E-04	6.46E-08	0.00E+00	0.00E+00	4.97E-06	0.00E+00	1.16E-04	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	2.60E-04	3.74E-04
URBN	Closure	Manganese	Adolescent	2.05E-02	1.22E-05	0.00E+00	0.00E+00	1.56E-02	0.00E+00	3.98E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-02	0.00E+00	5.49E-01	5.85E-01
URBN	Closure	Mercury	Adolescent	1.00E-06	5.93E-10	0.00E+00	0.00E+00	7.61E-06	0.00E+00	7.02E-05	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	9.97E-05	1.08E-04
URBN	Closure	Molybdenum	Adolescent	1.55E-05	9.20E-09	0.00E+00	0.00E+00	1.18E-05	0.00E+00	2.95E-04	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	4.29E-04	4.56E-04
URBN	Closure	Selenium	Adolescent	1.00E-05	5.95E-09	0.00E+00	0.00E+00	7.63E-07	0.00E+00	1.53E-05	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	4.77E-05	5.86E-05
URBN	Post Closure	Arsenic	Adolescent	3.14E-05	1.86E-08	0.00E+00	0.00E+00	7.15E-06	0.00E+00	1.46E-05	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	3.42E-05	7.27E-05
URBN	Post Closure	Barium	Adolescent	1.60E-03	9.47E-07	0.00E+00	0.00E+00	1.21E-03	0.00E+00	4.00E-03	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	7.51E-03	1.03E-02
URBN	Post Closure	Beryllium	Adolescent	5.85E-06	3.47E-09	0.00E+00	0.00E+00	4.45E-06	0.00E+00	1.23E-06	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	2.51E-06	1.28E-05
URBN	Post Closure	Chromium	Adolescent	1.02E-03	6.06E-07	0.00E+00	0.00E+00	7.78E-04	0.00E+00	3.92E-04	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	1.07E-03	2.87E-03
URBN	Post Closure	Cobalt	Adolescent	1.32E-04	7.82E-08	0.00E+00	0.00E+00	1.00E-04	0.00E+00	2.06E-04	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	3.42E-04	5.74E-04
URBN	Post Closure	Iron	Adolescent	1.03E+00	6.11E-04	0.00E+00	0.00E+00	7.83E-01	0.00E+00	3.26E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+00	0.00E+00	4.77E-01	2.29E+00
URBN	Post Closure	Lead	Adolescent	1.09E-04	6.46E-08	0.00E+00	0.00E+00	4.97E-06	0.00E+00	1.16E-04	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	2.60E-04	3.74E-04
URBN	Post Closure	Manganese	Adolescent	2.05E-02	1.22E-05	0.00E+00	0.00E+00	1.56E-02	0.00E+00	3.98E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-02	0.00E+00	5.49E-01	5.85E-01
URBN	Post Closure	Mercury	Adolescent	1.00E-06	5.93E-10	0.00E+00	0.00E+00	7.61E-06	0.00E+00	7.02E-05	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	9.97E-05	1.08E-04
URBN	Post Closure	Molybdenum	Adolescent	1.55E-05	9.20E-09	0.00E+00	0.00E+00	1.18E-05	0.00E+00	2.95E-04	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	4.29E-04	4.56E-04
URBN	Post Closure	Selenium	Adolescent	1.00E-05	5.95E-09	0.00E+00	0.00E+00	7.63E-07	0.00E+00	1.53E-05	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	4.77E-05	5.86E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Base	Arsenic	Adolescent	3.12E-05	6.08E-06	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	4.44E-05
COMM	Base	Barium	Adolescent	1.58E-03	3.09E-04	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	3.10E-03
COMM	Base	Beryllium	Adolescent	4.00E-06	7.80E-07	0.00E+00	0.00E+00	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-06	0.00E+00	0.00E+00	7.82E-06
COMM	Base	Chromium	Adolescent	1.02E-03	1.99E-04	0.00E+00	0.00E+00	7.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	1.99E-03
COMM	Base	Cobalt	Adolescent	1.31E-04	2.56E-05	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
COMM	Base	Iron	Adolescent	1.03E+00	2.00E-01	0.00E+00	0.00E+00	7.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	0.00E+00	0.00E+00	2.00E+00
COMM	Base	Lead	Adolescent	1.09E-04	2.12E-05	0.00E+00	0.00E+00	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	1.35E-04
COMM	Base	Manganese	Adolescent	2.04E-02	3.98E-03	0.00E+00	0.00E+00	1.55E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-02	0.00E+00	0.00E+00	3.99E-02
COMM	Base	Mercury	Adolescent	1.00E-06	1.95E-07	0.00E+00	0.00E+00	7.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-06	0.00E+00	0.00E+00	8.80E-06
COMM	Base	Molybdenum	Adolescent	1.51E-05	2.94E-06	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	2.94E-05
COMM	Base	Selenium	Adolescent	1.00E-05	1.95E-06	0.00E+00	0.00E+00	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	1.27E-05
COMM	Project	Arsenic	Adolescent	3.13E-05	6.11E-06	0.00E+00	0.00E+00	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	4.46E-05
COMM	Project	Barium	Adolescent	1.60E-03	3.11E-04	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	3.12E-03
COMM	Project	Beryllium	Adolescent	5.84E-06	1.14E-06	0.00E+00	0.00E+00	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	1.14E-05
COMM	Project	Chromium	Adolescent	1.02E-03	1.99E-04	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	2.00E-03
COMM	Project	Cobalt	Adolescent	1.32E-04	2.57E-05	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
COMM	Project	Iron	Adolescent	1.03E+00	2.01E-01	0.00E+00	0.00E+00	7.82E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E+00	0.00E+00	0.00E+00	2.01E+00
COMM	Project	Lead	Adolescent	1.09E-04	2.12E-05	0.00E+00	0.00E+00	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	1.35E-04
COMM	Project	Manganese	Adolescent	2.05E-02	4.00E-03	0.00E+00	0.00E+00	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-02	0.00E+00	0.00E+00	4.01E-02
COMM	Project	Mercury	Adolescent	1.00E-06	1.95E-07	0.00E+00	0.00E+00	7.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-06	0.00E+00	0.00E+00	8.80E-06
COMM	Project	Molybdenum	Adolescent	1.55E-05	3.01E-06	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	3.02E-05
COMM	Project	Selenium	Adolescent	1.00E-05	1.96E-06	0.00E+00	0.00E+00	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	1.28E-05
COMM	Closure	Arsenic	Adolescent	3.13E-05	6.11E-06	0.00E+00	0.00E+00	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	4.46E-05
COMM	Closure	Barium	Adolescent	1.60E-03	3.11E-04	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	3.12E-03
COMM	Closure	Beryllium	Adolescent	5.84E-06	1.14E-06	0.00E+00	0.00E+00	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	1.14E-05
COMM	Closure	Chromium	Adolescent	1.02E-03	1.99E-04	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	2.00E-03
COMM	Closure	Cobalt	Adolescent	1.32E-04	2.57E-05	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
COMM	Closure	Iron	Adolescent	1.03E+00	2.01E-01	0.00E+00	0.00E+00	7.82E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E+00	0.00E+00	0.00E+00	2.01E+00
COMM	Closure	Lead	Adolescent	1.09E-04	2.12E-05	0.00E+00	0.00E+00	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	1.35E-04
COMM	Closure	Manganese	Adolescent	2.05E-02	4.00E-03	0.00E+00	0.00E+00	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-02	0.00E+00	0.00E+00	4.01E-02
COMM	Closure	Mercury	Adolescent	1.00E-06	1.95E-07	0.00E+00	0.00E+00	7.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-06	0.00E+00	0.00E+00	8.80E-06
COMM	Closure	Molybdenum	Adolescent	1.55E-05	3.01E-06	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	3.02E-05
COMM	Closure	Selenium	Adolescent	1.00E-05	1.96E-06	0.00E+00	0.00E+00	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	1.28E-05
COMM	Post Closure	Arsenic	Adolescent	3.13E-05	6.11E-06	0.00E+00	0.00E+00	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	4.46E-05
COMM	Post Closure	Barium	Adolescent	1.60E-03	3.11E-04	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	3.12E-03
COMM	Post Closure	Beryllium	Adolescent	5.84E-06	1.14E-06	0.00E+00	0.00E+00	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	1.14E-05
COMM	Post Closure	Chromium	Adolescent	1.02E-03	1.99E-04	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	2.00E-03
COMM	Post Closure	Cobalt	Adolescent	1.32E-04	2.57E-05	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
COMM	Post Closure	Iron	Adolescent	1.03E+00	2.01E-01	0.00E+00	0.00E+00	7.82E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E+00	0.00E+00	0.00E+00	2.01E+00
COMM	Post Closure	Lead	Adolescent	1.09E-04	2.12E-05	0.00E+00	0.00E+00	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	1.35E-04
COMM	Post Closure	Manganese	Adolescent	2.05E-02	4.00E-03	0.00E+00	0.00E+00	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-02	0.00E+00	0.00E+00	4.01E-02
COMM	Post Closure	Mercury	Adolescent	1.00E-06	1.95E-07	0.00E+00	0.00E+00	7.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-06	0.00E+00	0.00E+00	8.80E-06
COMM	Post Closure	Molybdenum	Adolescent	1.55E-05	3.01E-06	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	3.02E-05
COMM	Post Closure	Selenium	Adolescent	1.00E-05	1.96E-06	0.00E+00	0.00E+00	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	1.28E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Base	Arsenic	Adult	3.12E-05	1.97E-08	3.81E-04	2.32E-05	8.01E-06	5.81E-06	8.26E-05	8.08E-05	5.26E-06	9.85E-05	2.29E-06	4.57E-05	5.83E-06	1.12E-05	3.92E-05	4.04E-04	3.38E-04	7.81E-04
RESI	Base	Barium	Adult	1.58E-03	9.99E-07	1.56E-02	9.49E-04	1.36E-03	2.63E-03	2.27E-02	1.45E-02	1.36E-03	1.20E-02	2.25E-06	2.64E-06	8.45E-06	1.68E-03	2.94E-03	1.65E-02	5.49E-02	7.44E-02
RESI	Base	Beryllium	Adult	5.80E-06	3.66E-09	1.68E-04	1.02E-05	4.96E-06	7.72E-07	6.66E-06	5.32E-06	3.99E-07	2.78E-04	9.24E-08	4.42E-08	5.35E-07	1.11E-04	1.08E-05	1.78E-04	4.03E-04	5.92E-04
RESI	Base	Chromium	Adult	1.02E-03	6.43E-07	2.04E-03	1.24E-04	8.73E-04	2.57E-04	2.21E-03	2.80E-03	1.33E-04	1.03E-03	1.16E-03	6.35E-04	3.51E-03	4.83E-03	1.89E-03	2.16E-03	1.66E-02	2.06E-02
RESI	Base	Cobalt	Adult	1.31E-04	8.29E-08	2.34E-04	1.09E-05	1.13E-04	8.73E-05	1.17E-03	5.62E-04	4.51E-05	2.00E-04	3.37E-05	4.94E-04	3.45E-04	7.44E-04	2.44E-04	2.45E-04	3.68E-03	4.17E-03
RESI	Base	Iron	Adult	1.03E+00	6.47E-04	5.93E-02	3.61E-03	8.78E-01	1.86E-01	1.83E+00	6.26E-01	9.62E-02	3.20E-01	4.63E-01	9.82E-01	1.13E+00	2.40E+00	1.90E+00	6.29E-02	8.02E+00	9.99E+00
RESI	Base	Lead	Adult	1.09E-04	6.85E-08	3.12E-04	1.24E-05	5.57E-06	7.62E-05	6.57E-04	5.97E-04	3.93E-05	7.49E-07	1.57E-07	8.47E-04	5.40E-04	2.07E-03	1.14E-04	3.24E-04	4.82E-03	5.26E-03
RESI	Base	Manganese	Adult	2.04E-02	1.29E-05	1.64E-02	9.95E-04	1.75E-02	6.61E-01	2.27E+00	6.23E-01	3.41E-01	1.78E-02	1.59E-02	1.21E-02	7.67E-02	2.96E-02	3.79E-02	1.73E-02	4.05E+00	4.10E+00
RESI	Base	Mercury	Adult	1.00E-06	6.31E-10	5.46E-05	3.32E-06	8.56E-06	7.94E-05	4.01E-04	1.22E-04	4.10E-05	2.28E-02	2.12E-05	1.59E-03	2.70E-04	6.89E-04	9.56E-06	5.79E-05	2.61E-02	2.61E-02
RESI	Base	Molybdenum	Adult	1.51E-05	9.50E-09	5.84E-04	3.55E-05	1.29E-05	3.97E-04	1.68E-03	5.52E-04	2.05E-04	2.00E-03	2.12E-04	5.29E-04	5.40E-04	6.89E-04	2.80E-05	6.19E-04	6.80E-03	7.45E-03
RESI	Base	Selenium	Adult	1.00E-05	6.31E-09	7.07E-04	4.30E-05	8.56E-07	1.01E-05	8.68E-05	1.34E-04	5.20E-06	2.43E-03	2.65E-03	1.43E-02	6.21E-03	1.03E-02	1.09E-05	7.49E-04	3.62E-02	3.69E-02
RESI	Project	Arsenic	Adult	3.21E-05	2.02E-08	6.83E-04	4.16E-05	8.24E-06	6.36E-06	8.82E-05	8.11E-05	6.58E-06	1.77E-04	2.82E-06	8.81E-05	8.16E-06	1.61E-05	4.03E-05	7.25E-04	4.74E-04	1.24E-03
RESI	Project	Barium	Adult	1.66E-03	1.05E-06	2.01E-02	1.22E-03	1.42E-03	2.73E-03	2.33E-02	1.46E-02	1.48E-03	1.54E-02	2.58E-06	2.70E-06	1.12E-05	1.99E-03	3.08E-03	2.13E-02	5.96E-02	8.39E-02
RESI	Project	Beryllium	Adult	6.09E-06	3.84E-09	2.07E-04	1.26E-05	5.22E-06	1.09E-06	8.63E-06	5.34E-06	8.38E-07	3.42E-04	1.05E-07	6.25E-08	6.34E-07	1.29E-04	1.13E-05	2.20E-04	4.88E-04	7.19E-04
RESI	Project	Chromium	Adult	1.04E-03	6.57E-07	2.04E-03	1.24E-04	8.91E-04	2.80E-04	2.36E-03	2.81E-03	1.65E-04	1.04E-03	1.36E-03	7.66E-04	4.43E-03	5.86E-03	1.93E-03	2.17E-03	1.91E-02	2.32E-02
RESI	Project	Cobalt	Adult	1.34E-04	8.45E-08	2.44E-03	1.14E-04	1.15E-04	9.02E-05	1.19E-03	5.63E-04	4.89E-05	2.08E-03	4.21E-05	7.91E-04	4.63E-04	1.11E-03	2.49E-04	2.55E-03	6.38E-03	9.18E-03
RESI	Project	Iron	Adult	1.05E+00	6.64E-04	2.80E-01	1.71E-02	9.01E-01	2.16E-01	2.01E+00	6.28E-01	1.37E-01	1.52E+00	7.04E-01	1.46E+00	1.70E+00	3.88E+00	1.95E+00	2.98E-01	1.23E+01	1.45E+01
RESI	Project	Lead	Adult	1.11E-04	6.99E-08	2.76E-04	1.09E-05	5.69E-06	7.88E-05	6.74E-04	5.98E-04	4.28E-05	6.62E-07	1.75E-07	2.47E-04	6.64E-04	1.51E-03	1.17E-04	2.87E-04	3.81E-03	4.22E-03
RESI	Project	Manganese	Adult	2.10E-02	1.33E-05	1.46E-01	8.91E-03	1.80E-02	6.64E-01	2.28E+00	6.25E-01	3.43E-01	1.59E-01	2.21E-02	2.49E-03	1.18E-01	8.94E-03	3.90E-02	1.55E-01	4.23E+00	4.42E+00
RESI	Project	Mercury	Adult	1.01E-06	6.35E-10	5.15E-05	3.13E-06	8.61E-06	7.95E-05	4.01E-04	1.22E-04	4.10E-05	2.15E-02	2.12E-05	1.57E-03	2.71E-04	6.84E-04	9.62E-06	5.46E-05	2.47E-02	2.48E-02
RESI	Project	Molybdenum	Adult	1.78E-05	1.12E-08	3.66E-03	2.23E-04	1.52E-05	4.07E-04	1.72E-03	5.62E-04	2.13E-04	1.26E-02	5.30E-04	1.77E-03	2.00E-03	2.27E-03	3.30E-05	3.89E-03	2.20E-02	2.59E-02
RESI	Project	Selenium	Adult	1.03E-05	6.47E-09	1.45E-03	8.85E-05	8.78E-07	1.04E-05	8.88E-05	1.35E-04	5.60E-06	5.00E-03	3.05E-03	3.82E-02	7.69E-03	2.27E-02	1.11E-05	1.54E-03	7.69E-02	7.84E-02
RESI	Closure	Arsenic	Adult	3.21E-05	2.02E-08	5.32E-04	3.24E-05	8.24E-06	6.36E-06	8.82E-05	8.11E-05	6.58E-06	1.38E-04	2.82E-06	7.57E-05	8.16E-06	1.53E-05	4.03E-05	5.65E-04	4.22E-04	1.03E-03
RESI	Closure	Barium	Adult	1.66E-03	1.05E-06	2.00E-02	1.21E-03	1.42E-03	2.73E-03	2.33E-02	1.46E-02	1.48E-03	1.54E-02	2.58E-06	2.69E-06	1.12E-05	1.99E-03	3.08E-03	2.12E-02	5.95E-02	8.37E-02
RESI	Closure	Beryllium	Adult	6.09E-06	3.84E-09	1.79E-04	1.09E-05	5.22E-06	1.09E-06	8.63E-06	5.34E-06	8.38E-07	2.96E-04	1.05E-07	5.88E-08	6.34E-07	1.28E-04	1.13E-05	1.90E-04	4.40E-04	6.41E-04
RESI	Closure	Chromium	Adult	1.04E-03	6.57E-07	1.89E-03	1.15E-04	8.91E-04	2.80E-04	2.36E-03	2.81E-03	1.65E-04	9.57E-04	1.36E-03	7.18E-04	4.43E-03	5.67E-03	1.93E-03	2.00E-03	1.87E-02	2.27E-02
RESI	Closure	Cobalt	Adult	1.34E-04	8.45E-08	1.56E-03	7.29E-05	1.15E-04	9.02E-05	1.19E-03	5.63E-04	4.89E-05	1.33E-03	4.20E-05	7.22E-04	4.62E-04	1.08E-03	2.49E-04	1.63E-03	5.53E-03	7.41E-03
RESI	Closure	Iron	Adult	1.05E+00	6.64E-04	2.29E-01	1.39E-02	9.01E-01	2.16E-01	2.01E+00	6.28E-01	1.37E-01	1.24E+00	7.04E-01	1.35E+00	1.70E+00	3.79E+00	1.95E+00	2.43E-01	1.18E+01	1.40E+01
RESI	Closure	Lead	Adult	1.11E-04	6.99E-08	2.60E-04	1.03E-05	5.69E-06	7.88E-05	6.74E-04	5.98E-04	4.28E-05	6.23E-07	1.75E-07	2.35E-04	6.64E-04	1.50E-03	1.17E-04	2.70E-04	3.79E-03	4.17E-03
RESI	Closure	Manganese	Adult	2.10E-02	1.33E-05	1.07E-01	6.51E-03	1.80E-02	6.64E-01	2.28E+00	6.25E-01	3.43E-01	1.16E-01	2.21E-02	1.94E-03	1.18E-01	7.68E-03	3.90E-02	1.13E-01	4.18E+00	4.33E+00
RESI	Closure	Mercury	Adult	1.01E-06	6.35E-10	5.16E-05	3.14E-06	8.61E-06	7.95E-05	4.01E-04	1.22E-04	4.10E-05	2.16E-02	2.12E-05	1.58E-03	2.71E-04	6.85E-04	9.62E-06	5.47E-05	2.48E-02	2.48E-02
RESI	Closure	Molybdenum	Adult	1.78E-05	1.12E-08	2.67E-03	1.63E-04	1.52E-05	4.07E-04	1.72E-03	5.62E-04	2.13E-04	9.16E-03	5.30E-04	1.30E-03	1.99E-03	1.71E-03	3.30E-05	2.84E-03	1.76E-02	2.05E-02
RESI	Closure	Selenium	Adult	1.03E-05	6.47E-09	1.09E-03	6.65E-05	8.78E-07	1.04E-05	8.88E-05	1.35E-04	5.60E-06	3.76E-03	3.05E-03	2.88E-02	7.68E-03	1.81E-02	1.11E-05	1.16E-03	6.16E-02	6.28E-02
RESI	Post Closure	Arsenic	Adult	3.21E-05	2.02E-08	3.02E-04	1.84E-05	8.24E-06	6.36E-06	8.82E-05	8.11E-05	6.58E-06	7.82E-05	2.83E-06	9.84E-05	8.16E-06	1.67E-05	4.03E-05	3.21E-04	3.87E-04	7.48E-04
RESI	Post Closure	Barium	Adult	1.66E-03	1.05E-06	1.97E-02	1.20E-03	1.42E-03	2.73E-03	2.33E-02	1.46E-02	1.48E-03	1.51E-02	2.58E-06	2.67E-06	1.12E-05	1.98E-03	3.08E-03	2.08E-02	5.92E-02	8.31E-02
RESI	Post Closure	Beryllium	Adult	6.09E-06	3.84E-09	1.31E-04	7.98E-06	5.22E-06	1.09E-06	8.63E-06	5.34E-06	8.38E-07	2.17E-04	1.05E-07	5.75E-08	6.34E-07	1.27E-04	1.13E-05	1.39E-04	3.61E-04	5.12E-04
RESI	Post Closure	Chromium	Adult	1.04E-03	6.57E-07	1.61E-03	9.80E-05	8.91E-04	2.80E-04	2.36E-03	2.81E-03	1.65E-04	8.16E-04	1.36E-03	6.69E-04	4.43E-03	5.47E-03	1.93E-03	1.71E-03	1.84E-02	2.20E-02
RESI	Post Closure	Cobalt	Adult	1.34E-04	8.45E-08	1.99E-04	9.31E-06	1.15E-04	9.02E-05	1.19E-03	5.63E-04	4.89E-05	1.70E-04	4.20E-05	6.68E-04	4.62E-04	1.06E-03	2.49E-04	2.09E-04	4.29E-03	4.75E-03
RESI	Post Closure	Iron	Adult	1.05E+00	6.64E-04	1.75E-01	1.06E-02	9.01E-01	2.16E-01	2.01E+00	6.28E-01	1.37E-01	9.45E-01	7.04E-01	1.43E+00	1.70E+00	3.86E+00	1.95E+00	1.86E-01	1.16E+01	1.38E+01
RESI	Post Closure	Lead	Adult	1.11E-04	6.99E-08	2.09E-04	8.31E-06	5.69E-06	7.88E-05	6.74E-04	5.98E-04	4.28E-05	5.02E-07	1.75E-07	2.17E-04	6.64E-04	1.47E-03	1.17E-04	2.18E-04	3.75E-03	4.08E-03
RESI	Post Closure	Manganese	Adult	2.10E-02	1.33E-05	9.70E-02	5.90E-03	1.80E-02	6.64E-01	2.28E+00	6.25E-01	3.43E-01	1.06E-01	2.21E-02	1.81E-03	1.18E-01	7.39E-03	3.90E-02	1.03E-01	4.17E+00	4.31E+00
RESI	Post Closure	Mercury	Adult	1.01E-06	6.35E-10	4.96E-05	3.02E-06	8.61E-06	7.95E-05	4.01E-04	1.22E-04	4.10E-05	2.08E-02	2.12E-05	1.56E-03	2.71E-04	6.78E-04	9.62E-06	5.27E-05	2.39E-02	2.40E-02
RESI	Post Closure	Molybdenum	Adult	1.78E-05	1.12E-08	1.81E-03	1.10E-04	1.52E-05	4.07E-04	1.72E-03	5.62E-04	2.13E-04	6.19E-03	5.30E-04	2.09E-03	2.00E-03	2.65E-03	3.30E-05	1.92E-03	1.64E-02	1.83E-02
RESI	Post Closure	Selenium	Adult	1.03E-05	6.47E-09	5.38E-04	3.28E-05	8.78E-07	1.04E-05	8.88E-05	1.35E-04	5.60E-06	1.85E-03	3.06E-03	6.37E-02	7.72E-03	3.52E-02	1.11E-05	5.71E-04	1.12E-01	1.12E-01

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Base	Arsenic	Adult	3.12E-05	1.97E-08	3.81E-04	2.32E-05	8.01E-06	1.16E-06	1.65E-05	1.62E-05	1.05E-06	5.41E-05	4.57E-07	9.15E-06	1.17E-06	2.25E-06	3.92E-05	4.04E-04	1.02E-04	5.45E-04
RECR	Base	Barium	Adult	1.58E-03	9.99E-07	1.56E-02	9.49E-04	1.36E-03	5.27E-04	4.54E-03	2.90E-03	2.72E-04	6.60E-03	4.50E-07	5.28E-07	1.69E-06	3.36E-04	2.94E-03	1.65E-02	1.52E-02	3.47E-02
RECR	Base	Beryllium	Adult	5.80E-06	3.66E-09	1.68E-04	1.02E-05	4.96E-06	1.54E-07	1.33E-06	1.06E-06	7.98E-08	1.53E-04	1.85E-08	8.83E-09	1.07E-07	2.23E-05	1.08E-05	1.78E-04	1.78E-04	3.67E-04
RECR	Base	Chromium	Adult	1.02E-03	6.43E-07	2.04E-03	1.24E-04	8.73E-04	5.13E-05	4.43E-04	5.61E-04	2.65E-05	5.68E-04	2.33E-04	1.27E-04	7.02E-04	9.65E-04	1.89E-03	2.16E-03	3.68E-03	7.73E-03
RECR	Base	Cobalt	Adult	1.31E-04	8.29E-08	2.34E-04	1.09E-05	1.13E-04	1.75E-05	2.34E-04	1.12E-04	9.02E-06	1.10E-04	6.73E-06	9.88E-05	6.90E-05	1.49E-04	2.44E-04	2.45E-04	8.06E-04	1.30E-03
RECR	Base	Iron	Adult	1.03E+00	6.47E-04	5.93E-02	3.61E-03	8.78E-01	3.73E-02	3.65E-01	1.25E-01	1.92E-02	1.76E-01	9.25E-02	1.96E-01	2.25E-01	4.80E-01	1.90E+00	6.29E-02	1.72E+00	3.68E+00
RECR	Base	Lead	Adult	1.09E-04	6.85E-08	3.12E-04	1.24E-05	5.57E-06	1.52E-05	1.31E-04	1.19E-04	7.87E-06	4.12E-07	3.15E-08	1.69E-04	1.08E-04	4.14E-04	1.14E-04	3.24E-04	9.65E-04	1.40E-03
RECR	Base	Manganese	Adult	2.04E-02	1.29E-05	1.64E-02	9.95E-04	1.75E-02	1.32E-01	4.54E-01	1.25E-01	6.83E-02	9.79E-03	3.18E-03	2.41E-03	1.53E-02	5.93E-03	3.79E-02	1.73E-02	8.16E-01	8.71E-01
RECR	Base	Mercury	Adult	1.00E-06	6.31E-10	5.46E-05	3.32E-06	8.56E-06	1.59E-05	8.01E-05	2.44E-05	8.20E-06	1.26E-02	4.23E-06	3.18E-04	5.40E-05	1.38E-04	9.56E-06	5.79E-05	1.32E-02	1.33E-02
RECR	Base	Molybdenum	Adult	1.51E-05	9.50E-09	5.84E-04	3.55E-05	1.29E-05	7.94E-05	3.35E-04	1.10E-04	4.10E-05	1.10E-03	4.23E-05	1.06E-04	1.08E-04	1.38E-04	2.80E-05	6.19E-04	2.06E-03	2.71E-03
RECR	Base	Selenium	Adult	1.00E-05	6.31E-09	7.07E-04	4.30E-05	8.56E-07	2.01E-06	1.74E-05	2.69E-05	1.04E-06	1.34E-03	5.29E-04	2.86E-03	1.24E-03	2.07E-03	1.09E-05	7.49E-04	8.08E-03	8.84E-03
RECR	Project	Arsenic	Adult	3.21E-05	2.02E-08	6.83E-04	4.16E-05	8.24E-06	1.27E-06	1.76E-05	1.62E-05	1.32E-06	9.71E-05	5.65E-07	1.76E-05	1.63E-06	3.21E-06	4.03E-05	7.25E-04	1.57E-04	9.22E-04
RECR	Project	Barium	Adult	1.66E-03	1.05E-06	2.01E-02	1.22E-03	1.42E-03	5.45E-04	4.66E-03	2.92E-03	2.95E-04	8.50E-03	5.15E-07	5.40E-07	2.25E-06	3.97E-04	3.08E-03	2.13E-02	1.73E-02	4.17E-02
RECR	Project	Beryllium	Adult	6.09E-06	3.84E-09	2.07E-04	1.26E-05	5.22E-06	2.18E-07	1.73E-06	1.07E-06	1.68E-07	1.88E-04	2.10E-08	1.25E-08	1.27E-07	2.57E-05	1.13E-05	2.20E-04	2.17E-04	4.48E-04
RECR	Project	Chromium	Adult	1.04E-03	6.57E-07	2.04E-03	1.24E-04	8.91E-04	5.60E-05	4.72E-04	5.62E-04	3.29E-05	5.70E-04	2.72E-04	1.53E-04	8.87E-04	1.17E-03	1.93E-03	2.17E-03	4.18E-03	8.28E-03
RECR	Project	Cobalt	Adult	1.34E-04	8.45E-08	2.44E-03	1.14E-04	1.15E-04	1.80E-05	2.38E-04	1.13E-04	9.79E-06	1.15E-03	8.41E-06	1.58E-04	9.25E-05	2.22E-04	2.49E-04	2.55E-03	2.01E-03	4.81E-03
RECR	Project	Iron	Adult	1.05E+00	6.64E-04	2.80E-01	1.71E-02	9.01E-01	4.32E-02	4.02E-01	1.26E-01	2.75E-02	8.33E-01	1.41E-01	2.91E-01	3.40E-01	7.77E-01	1.95E+00	2.98E-01	2.98E+00	5.23E+00
RECR	Project	Lead	Adult	1.11E-04	6.99E-08	2.76E-04	1.09E-05	5.69E-06	1.58E-05	1.35E-04	1.20E-04	8.56E-06	3.64E-07	3.49E-08	4.94E-05	1.33E-04	3.02E-04	1.17E-04	2.87E-04	7.63E-04	1.17E-03
RECR	Project	Manganese	Adult	2.10E-02	1.33E-05	1.46E-01	8.91E-03	1.80E-02	1.33E-01	4.56E-01	1.25E-01	6.87E-02	8.76E-02	4.42E-03	4.99E-04	2.37E-02	1.79E-03	3.90E-02	1.55E-01	9.01E-01	1.10E+00
RECR	Project	Mercury	Adult	1.01E-06	6.35E-10	5.15E-05	3.13E-06	8.61E-06	1.59E-05	8.02E-05	2.45E-05	8.21E-06	1.19E-02	4.24E-06	3.15E-04	5.43E-05	1.37E-04	9.62E-06	5.46E-05	1.25E-02	1.26E-02
RECR	Project	Molybdenum	Adult	1.78E-05	1.12E-08	3.66E-03	2.23E-04	1.52E-05	8.14E-05	3.45E-04	1.12E-04	4.25E-05	6.90E-03	1.06E-04	3.54E-04	3.99E-04	4.54E-04	3.30E-05	3.89E-03	8.80E-03	1.27E-02
RECR	Project	Selenium	Adult	1.03E-05	6.47E-09	1.45E-03	8.85E-05	8.78E-07	2.07E-06	1.78E-05	2.70E-05	1.12E-06	2.75E-03	6.11E-04	7.64E-03	1.54E-03	4.53E-03	1.11E-05	1.54E-03	1.71E-02	1.87E-02
RECR	Closure	Arsenic	Adult	3.21E-05	2.02E-08	5.32E-04	3.24E-05	8.24E-06	1.27E-06	1.76E-05	1.62E-05	1.32E-06	7.57E-05	5.65E-07	1.51E-05	1.63E-06	3.05E-06	4.03E-05	5.65E-04	1.33E-04	7.38E-04
RECR	Closure	Barium	Adult	1.66E-03	1.05E-06	2.00E-02	1.21E-03	1.42E-03	5.45E-04	4.66E-03	2.92E-03	2.95E-04	8.44E-03	5.15E-07	5.38E-07	2.25E-06	3.97E-04	3.08E-03	2.12E-02	1.73E-02	4.15E-02
RECR	Closure	Beryllium	Adult	6.09E-06	3.84E-09	1.79E-04	1.09E-05	5.22E-06	2.18E-07	1.73E-06	1.07E-06	1.68E-07	1.63E-04	2.09E-08	1.18E-08	1.27E-07	2.56E-05	1.13E-05	1.90E-04	1.91E-04	3.92E-04
RECR	Closure	Chromium	Adult	1.04E-03	6.57E-07	1.89E-03	1.15E-04	8.91E-04	5.60E-05	4.72E-04	5.62E-04	3.29E-05	5.27E-04	2.72E-04	1.44E-04	8.87E-04	1.13E-03	1.93E-03	2.00E-03	4.08E-03	8.02E-03
RECR	Closure	Cobalt	Adult	1.34E-04	8.45E-08	1.56E-03	7.29E-05	1.15E-04	1.80E-05	2.38E-04	1.13E-04	9.79E-06	7.33E-04	8.40E-06	1.44E-04	9.25E-05	2.16E-04	2.49E-04	1.63E-03	1.57E-03	3.46E-03
RECR	Closure	Iron	Adult	1.05E+00	6.64E-04	2.29E-01	1.39E-02	9.01E-01	4.32E-02	4.02E-01	1.26E-01	2.75E-02	6.81E-01	1.41E-01	2.70E-01	3.40E-01	7.57E-01	1.95E+00	2.43E-01	2.79E+00	4.99E+00
RECR	Closure	Lead	Adult	1.11E-04	6.99E-08	2.60E-04	1.03E-05	5.69E-06	1.58E-05	1.35E-04	1.20E-04	8.56E-06	3.43E-07	3.49E-08	4.70E-05	1.33E-04	2.99E-04	1.17E-04	2.70E-04	7.58E-04	1.14E-03
RECR	Closure	Manganese	Adult	2.10E-02	1.33E-05	1.07E-01	6.51E-03	1.80E-02	1.33E-01	4.56E-01	1.25E-01	6.87E-02	6.40E-02	4.42E-03	3.87E-04	2.37E-02	1.54E-03	3.90E-02	1.13E-01	8.77E-01	1.03E+00
RECR	Closure	Mercury	Adult	1.01E-06	6.35E-10	5.16E-05	3.14E-06	8.61E-06	1.59E-05	8.02E-05	2.45E-05	8.21E-06	1.19E-02	4.24E-06	3.15E-04	5.43E-05	1.37E-04	9.62E-06	5.47E-05	1.25E-02	1.26E-02
RECR	Closure	Molybdenum	Adult	1.78E-05	1.12E-08	2.67E-03	1.63E-04	1.52E-05	8.14E-05	3.45E-04	1.12E-04	4.25E-05	5.04E-03	1.06E-04	2.59E-04	3.99E-04	3.43E-04	3.30E-05	2.84E-03	6.73E-03	9.60E-03
RECR	Closure	Selenium	Adult	1.03E-05	6.47E-09	1.09E-03	6.65E-05	8.78E-07	2.07E-06	1.78E-05	2.70E-05	1.12E-06	2.07E-03	6.10E-04	5.77E-03	1.54E-03	3.61E-03	1.11E-05	1.16E-03	1.36E-02	1.48E-02
RECR	Post Closure	Arsenic	Adult	3.21E-05	2.02E-08	3.02E-04	1.84E-05	8.24E-06	1.27E-06	1.76E-05	1.62E-05	1.32E-06	4.30E-05	5.65E-07	1.97E-05	1.63E-06	3.34E-06	4.03E-05	3.21E-04	1.05E-04	4.66E-04
RECR	Post Closure	Barium	Adult	1.66E-03	1.05E-06	1.97E-02	1.20E-03	1.42E-03	5.45E-04	4.66E-03	2.92E-03	2.95E-04	8.31E-03	5.15E-07	5.35E-07	2.25E-06	3.97E-04	3.08E-03	2.08E-02	1.71E-02	4.11E-02
RECR	Post Closure	Beryllium	Adult	6.09E-06	3.84E-09	1.31E-04	7.98E-06	5.22E-06	2.18E-07	1.73E-06	1.07E-06	1.68E-07	1.19E-04	2.09E-08	1.15E-08	1.27E-07	2.55E-05	1.13E-05	1.39E-04	1.48E-04	2.99E-04
RECR	Post Closure	Chromium	Adult	1.04E-03	6.57E-07	1.61E-03	9.80E-05	8.91E-04	5.60E-05	4.72E-04	5.62E-04	3.29E-05	4.49E-04	2.72E-04	1.34E-04	8.87E-04	1.09E-03	1.93E-03	1.71E-03	3.96E-03	7.60E-03
RECR	Post Closure	Cobalt	Adult	1.34E-04	8.45E-08	1.99E-04	9.31E-06	1.15E-04	1.80E-05	2.38E-04	1.13E-04	9.79E-06	9.37E-05	8.40E-06	1.34E-04	9.24E-05	2.11E-04	2.49E-04	2.09E-04	9.18E-04	1.38E-03
RECR	Post Closure	Iron	Adult	1.05E+00	6.64E-04	1.75E-01	1.06E-02	9.01E-01	4.32E-02	4.02E-01	1.26E-01	2.75E-02	5.20E-01	1.41E-01	2.87E-01	3.40E-01	7.72E-01	1.95E+00	1.86E-01	2.66E+00	4.80E+00
RECR	Post Closure	Lead	Adult	1.11E-04	6.99E-08	2.09E-04	8.31E-06	5.69E-06	1.58E-05	1.35E-04	1.20E-04	8.56E-06	2.76E-07	3.49E-08	4.34E-05	1.33E-04	2.95E-04	1.17E-04	2.18E-04	7.50E-04	1.08E-03
RECR	Post Closure	Manganese	Adult	2.10E-02	1.33E-05	9.70E-02	5.90E-03	1.80E-02	1.33E-01	4.56E-01	1.25E-01	6.87E-02	5.81E-02	4.42E-03	3.61E-04	2.37E-02	1.48E-03	3.90E-02	1.03E-01	8.71E-01	1.01E+00
RECR	Post Closure	Mercury	Adult	1.01E-06	6.35E-10	4.96E-05	3.02E-06	8.61E-06	1.59E-05	8.02E-05	2.45E-05	8.21E-06	1.14E-02	4.24E-06	3.12E-04	5.43E-05	1.36E-04	9.62E-06	5.27E-05	1.21E-02	1.21E-02
RECR	Post Closure	Molybdenum	Adult	1.78E-05	1.12E-08	1.81E-03	1.10E-04	1.52E-05	8.14E-05	3.45E-04	1.12E-04	4.25E-05	3.40E-03	1.06E-04	4.18E-04	3.99E-04	5.30E-04	3.30E-05	1.92E-03	5.44E-03	7.39E-03
RECR	Post Closure	Selenium	Adult	1.03E-05	6.47E-09	5.38E-04	3.28E-05	8.78E-07	2.07E-06	1.78E-05	2.70E-05	1.12E-06	1.02E-03	6.12E-04	1.27E-02	1.54E-03	7.04E-03	1.11E-05	5.71E-04	2.30E-02	2.36E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Base	Arsenic	Adult	3.12E-05	1.97E-08	0.00E+00	0.00E+00	8.01E-06	0.00E+00	1.65E-05	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	3.27E-05	7.19E-05
URBN	Base	Barium	Adult	1.58E-03	9.99E-07	0.00E+00	0.00E+00	1.36E-03	0.00E+00	4.54E-03	2.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	7.45E-03	1.04E-02
URBN	Base	Beryllium	Adult	5.80E-06	3.66E-09	0.00E+00	0.00E+00	4.96E-06	0.00E+00	1.33E-06	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	2.40E-06	1.32E-05
URBN	Base	Chromium	Adult	1.02E-03	6.43E-07	0.00E+00	0.00E+00	8.73E-04	0.00E+00	4.43E-04	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	1.00E-03	2.90E-03
URBN	Base	Cobalt	Adult	1.31E-04	8.29E-08	0.00E+00	0.00E+00	1.13E-04	0.00E+00	2.34E-04	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	3.47E-04	5.91E-04
URBN	Base	Iron	Adult	1.03E+00	6.47E-04	0.00E+00	0.00E+00	8.78E-01	0.00E+00	3.65E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+00	0.00E+00	4.90E-01	2.39E+00
URBN	Base	Lead	Adult	1.09E-04	6.85E-08	0.00E+00	0.00E+00	5.57E-06	0.00E+00	1.31E-04	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	2.51E-04	3.65E-04
URBN	Base	Manganese	Adult	2.04E-02	1.29E-05	0.00E+00	0.00E+00	1.75E-02	0.00E+00	4.54E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-02	0.00E+00	5.79E-01	6.17E-01
URBN	Base	Mercury	Adult	1.00E-06	6.31E-10	0.00E+00	0.00E+00	8.56E-06	0.00E+00	8.01E-05	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-06	0.00E+00	1.05E-04	1.14E-04
URBN	Base	Molybdenum	Adult	1.51E-05	9.50E-09	0.00E+00	0.00E+00	1.29E-05	0.00E+00	3.35E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	4.46E-04	4.74E-04
URBN	Base	Selenium	Adult	1.00E-05	6.31E-09	0.00E+00	0.00E+00	8.56E-07	0.00E+00	1.74E-05	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	4.42E-05	5.51E-05
URBN	Project	Arsenic	Adult	3.14E-05	1.98E-08	0.00E+00	0.00E+00	8.05E-06	0.00E+00	1.67E-05	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	3.29E-05	7.23E-05
URBN	Project	Barium	Adult	1.60E-03	1.01E-06	0.00E+00	0.00E+00	1.37E-03	0.00E+00	4.56E-03	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	7.47E-03	1.04E-02
URBN	Project	Beryllium	Adult	5.85E-06	3.69E-09	0.00E+00	0.00E+00	5.01E-06	0.00E+00	1.40E-06	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	2.46E-06	1.33E-05
URBN	Project	Chromium	Adult	1.02E-03	6.45E-07	0.00E+00	0.00E+00	8.76E-04	0.00E+00	4.48E-04	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	1.01E-03	2.91E-03
URBN	Project	Cobalt	Adult	1.32E-04	8.32E-08	0.00E+00	0.00E+00	1.13E-04	0.00E+00	2.35E-04	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	3.47E-04	5.92E-04
URBN	Project	Iron	Adult	1.03E+00	6.50E-04	0.00E+00	0.00E+00	8.82E-01	0.00E+00	3.72E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+00	0.00E+00	4.97E-01	2.41E+00
URBN	Project	Lead	Adult	1.09E-04	6.87E-08	0.00E+00	0.00E+00	5.59E-06	0.00E+00	1.32E-04	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	2.51E-04	3.66E-04
URBN	Project	Manganese	Adult	2.05E-02	1.29E-05	0.00E+00	0.00E+00	1.76E-02	0.00E+00	4.55E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-02	0.00E+00	5.79E-01	6.17E-01
URBN	Project	Mercury	Adult	1.00E-06	6.31E-10	0.00E+00	0.00E+00	8.57E-06	0.00E+00	8.02E-05	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-06	0.00E+00	1.05E-04	1.14E-04
URBN	Project	Molybdenum	Adult	1.55E-05	9.79E-09	0.00E+00	0.00E+00	1.33E-05	0.00E+00	3.37E-04	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	4.48E-04	4.77E-04
URBN	Project	Selenium	Adult	1.00E-05	6.34E-09	0.00E+00	0.00E+00	8.60E-07	0.00E+00	1.74E-05	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	4.43E-05	5.52E-05
URBN	Closure	Arsenic	Adult	3.14E-05	1.98E-08	0.00E+00	0.00E+00	8.05E-06	0.00E+00	1.67E-05	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	3.29E-05	7.23E-05
URBN	Closure	Barium	Adult	1.60E-03	1.01E-06	0.00E+00	0.00E+00	1.37E-03	0.00E+00	4.56E-03	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	7.47E-03	1.04E-02
URBN	Closure	Beryllium	Adult	5.85E-06	3.69E-09	0.00E+00	0.00E+00	5.01E-06	0.00E+00	1.40E-06	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	2.46E-06	1.33E-05
URBN	Closure	Chromium	Adult	1.02E-03	6.45E-07	0.00E+00	0.00E+00	8.76E-04	0.00E+00	4.48E-04	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	1.01E-03	2.91E-03
URBN	Closure	Cobalt	Adult	1.32E-04	8.32E-08	0.00E+00	0.00E+00	1.13E-04	0.00E+00	2.35E-04	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	3.47E-04	5.92E-04
URBN	Closure	Iron	Adult	1.03E+00	6.50E-04	0.00E+00	0.00E+00	8.82E-01	0.00E+00	3.72E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+00	0.00E+00	4.97E-01	2.41E+00
URBN	Closure	Lead	Adult	1.09E-04	6.87E-08	0.00E+00	0.00E+00	5.59E-06	0.00E+00	1.32E-04	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	2.51E-04	3.66E-04
URBN	Closure	Manganese	Adult	2.05E-02	1.29E-05	0.00E+00	0.00E+00	1.76E-02	0.00E+00	4.55E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-02	0.00E+00	5.79E-01	6.17E-01
URBN	Closure	Mercury	Adult	1.00E-06	6.31E-10	0.00E+00	0.00E+00	8.57E-06	0.00E+00	8.02E-05	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-06	0.00E+00	1.05E-04	1.14E-04
URBN	Closure	Molybdenum	Adult	1.55E-05	9.79E-09	0.00E+00	0.00E+00	1.33E-05	0.00E+00	3.37E-04	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	4.48E-04	4.77E-04
URBN	Closure	Selenium	Adult	1.00E-05	6.34E-09	0.00E+00	0.00E+00	8.60E-07	0.00E+00	1.74E-05	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	4.43E-05	5.52E-05
URBN	Post Closure	Arsenic	Adult	3.14E-05	1.98E-08	0.00E+00	0.00E+00	8.05E-06	0.00E+00	1.67E-05	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	3.29E-05	7.23E-05
URBN	Post Closure	Barium	Adult	1.60E-03	1.01E-06	0.00E+00	0.00E+00	1.37E-03	0.00E+00	4.56E-03	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	7.47E-03	1.04E-02
URBN	Post Closure	Beryllium	Adult	5.85E-06	3.69E-09	0.00E+00	0.00E+00	5.01E-06	0.00E+00	1.40E-06	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	2.46E-06	1.33E-05
URBN	Post Closure	Chromium	Adult	1.02E-03	6.45E-07	0.00E+00	0.00E+00	8.76E-04	0.00E+00	4.48E-04	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	1.01E-03	2.91E-03
URBN	Post Closure	Cobalt	Adult	1.32E-04	8.32E-08	0.00E+00	0.00E+00	1.13E-04	0.00E+00	2.35E-04	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	3.47E-04	5.92E-04
URBN	Post Closure	Iron	Adult	1.03E+00	6.50E-04	0.00E+00	0.00E+00	8.82E-01	0.00E+00	3.72E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+00	0.00E+00	4.97E-01	2.41E+00
URBN	Post Closure	Lead	Adult	1.09E-04	6.87E-08	0.00E+00	0.00E+00	5.59E-06	0.00E+00	1.32E-04	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	2.51E-04	3.66E-04
URBN	Post Closure	Manganese	Adult	2.05E-02	1.29E-05	0.00E+00	0.00E+00	1.76E-02	0.00E+00	4.55E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-02	0.00E+00	5.79E-01	6.17E-01
URBN	Post Closure	Mercury	Adult	1.00E-06	6.31E-10	0.00E+00	0.00E+00	8.57E-06	0.00E+00	8.02E-05	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-06	0.00E+00	1.05E-04	1.14E-04
URBN	Post Closure	Molybdenum	Adult	1.55E-05	9.79E-09	0.00E+00	0.00E+00	1.33E-05	0.00E+00	3.37E-04	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	4.48E-04	4.77E-04
URBN	Post Closure	Selenium	Adult	1.00E-05	6.34E-09	0.00E+00	0.00E+00	8.60E-07	0.00E+00	1.74E-05	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	4.43E-05	5.52E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Base	Arsenic	Adult	3.12E-05	6.47E-06	0.00E+00	0.00E+00	8.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	4.57E-05
COMM	Base	Barium	Adult	1.58E-03	3.29E-04	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	3.27E-03
COMM	Base	Beryllium	Adult	4.00E-06	8.30E-07	0.00E+00	0.00E+00	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06	0.00E+00	0.00E+00	8.25E-06
COMM	Base	Chromium	Adult	1.02E-03	2.12E-04	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	2.10E-03
COMM	Base	Cobalt	Adult	1.31E-04	2.73E-05	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04
COMM	Base	Iron	Adult	1.03E+00	2.13E-01	0.00E+00	0.00E+00	8.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E+00	0.00E+00	0.00E+00	2.12E+00
COMM	Base	Lead	Adult	1.09E-04	2.25E-05	0.00E+00	0.00E+00	5.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	1.37E-04
COMM	Base	Manganese	Adult	2.04E-02	4.23E-03	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	4.21E-02
COMM	Base	Mercury	Adult	1.00E-06	2.08E-07	0.00E+00	0.00E+00	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06	0.00E+00	0.00E+00	9.77E-06
COMM	Base	Molybdenum	Adult	1.51E-05	3.12E-06	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	3.11E-05
COMM	Base	Selenium	Adult	1.00E-05	2.08E-06	0.00E+00	0.00E+00	8.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	1.29E-05
COMM	Project	Arsenic	Adult	3.13E-05	6.50E-06	0.00E+00	0.00E+00	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	4.59E-05
COMM	Project	Barium	Adult	1.60E-03	3.31E-04	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	3.29E-03
COMM	Project	Beryllium	Adult	5.84E-06	1.21E-06	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	1.21E-05
COMM	Project	Chromium	Adult	1.02E-03	2.12E-04	0.00E+00	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	2.11E-03
COMM	Project	Cobalt	Adult	1.32E-04	2.74E-05	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
COMM	Project	Iron	Adult	1.03E+00	2.14E-01	0.00E+00	0.00E+00	8.81E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E+00	0.00E+00	0.00E+00	2.12E+00
COMM	Project	Lead	Adult	1.09E-04	2.26E-05	0.00E+00	0.00E+00	5.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	1.37E-04
COMM	Project	Manganese	Adult	2.05E-02	4.25E-03	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-02	0.00E+00	0.00E+00	4.23E-02
COMM	Project	Mercury	Adult	1.00E-06	2.08E-07	0.00E+00	0.00E+00	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06	0.00E+00	0.00E+00	9.78E-06
COMM	Project	Molybdenum	Adult	1.55E-05	3.21E-06	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	3.19E-05
COMM	Project	Selenium	Adult	1.00E-05	2.08E-06	0.00E+00	0.00E+00	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	1.30E-05
COMM	Closure	Arsenic	Adult	3.13E-05	6.50E-06	0.00E+00	0.00E+00	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	4.59E-05
COMM	Closure	Barium	Adult	1.60E-03	3.31E-04	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	3.29E-03
COMM	Closure	Beryllium	Adult	5.84E-06	1.21E-06	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	1.21E-05
COMM	Closure	Chromium	Adult	1.02E-03	2.12E-04	0.00E+00	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	2.11E-03
COMM	Closure	Cobalt	Adult	1.32E-04	2.74E-05	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
COMM	Closure	Iron	Adult	1.03E+00	2.14E-01	0.00E+00	0.00E+00	8.81E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E+00	0.00E+00	0.00E+00	2.12E+00
COMM	Closure	Lead	Adult	1.09E-04	2.26E-05	0.00E+00	0.00E+00	5.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	1.37E-04
COMM	Closure	Manganese	Adult	2.05E-02	4.25E-03	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-02	0.00E+00	0.00E+00	4.23E-02
COMM	Closure	Mercury	Adult	1.00E-06	2.08E-07	0.00E+00	0.00E+00	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06	0.00E+00	0.00E+00	9.78E-06
COMM	Closure	Molybdenum	Adult	1.55E-05	3.21E-06	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	3.19E-05
COMM	Closure	Selenium	Adult	1.00E-05	2.08E-06	0.00E+00	0.00E+00	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	1.30E-05
COMM	Post Closure	Arsenic	Adult	3.13E-05	6.50E-06	0.00E+00	0.00E+00	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	4.59E-05
COMM	Post Closure	Barium	Adult	1.60E-03	3.31E-04	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	3.29E-03
COMM	Post Closure	Beryllium	Adult	5.84E-06	1.21E-06	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	1.21E-05
COMM	Post Closure	Chromium	Adult	1.02E-03	2.12E-04	0.00E+00	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	2.11E-03
COMM	Post Closure	Cobalt	Adult	1.32E-04	2.74E-05	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
COMM	Post Closure	Iron	Adult	1.03E+00	2.14E-01	0.00E+00	0.00E+00	8.81E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E+00	0.00E+00	0.00E+00	2.12E+00
COMM	Post Closure	Lead	Adult	1.09E-04	2.26E-05	0.00E+00	0.00E+00	5.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	1.37E-04
COMM	Post Closure	Manganese	Adult	2.05E-02	4.25E-03	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-02	0.00E+00	0.00E+00	4.23E-02
COMM	Post Closure	Mercury	Adult	1.00E-06	2.08E-07	0.00E+00	0.00E+00	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06	0.00E+00	0.00E+00	9.78E-06
COMM	Post Closure	Molybdenum	Adult	1.55E-05	3.21E-06	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	3.19E-05
COMM	Post Closure	Selenium	Adult	1.00E-05	2.08E-06	0.00E+00	0.00E+00	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	1.30E-05

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Project-Base	Arsenic	Infant	8.79E-07	7.35E-11	6.05E-05	0.00E+00	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-07	6.05E-05	0.00E+00	6.14E-05
RESI	Project-Base	Barium	Infant	7.49E-05	6.26E-09	8.97E-04	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	8.97E-04	0.00E+00	9.90E-04
RESI	Project-Base	Beryllium	Infant	2.94E-07	2.46E-11	7.81E-06	0.00E+00	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-07	7.81E-06	0.00E+00	8.18E-06
RESI	Project-Base	Chromium	Infant	2.14E-05	1.79E-09	7.55E-07	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	7.55E-07	0.00E+00	2.74E-05
RESI	Project-Base	Cobalt	Infant	2.53E-06	2.11E-10	4.41E-04	0.00E+00	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	4.41E-04	0.00E+00	4.44E-04
RESI	Project-Base	Iron	Infant	2.75E-02	2.30E-06	4.42E-02	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-02	4.42E-02	0.00E+00	7.85E-02
RESI	Project-Base	Lead	Infant	2.29E-06	1.91E-10	0.00E+00	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	2.32E-06
RESI	Project-Base	Manganese	Infant	6.05E-04	5.06E-08	2.60E-02	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	2.60E-02	0.00E+00	2.68E-02
RESI	Project-Base	Mercury	Infant	6.03E-09	5.04E-13	0.00E+00	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-08	0.00E+00	0.00E+00	2.08E-08
RESI	Project-Base	Molybdenum	Infant	2.70E-06	2.25E-10	6.16E-04	0.00E+00	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	6.16E-04	0.00E+00	6.19E-04
RESI	Project-Base	Selenium	Infant	2.62E-07	2.19E-11	1.50E-04	0.00E+00	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07	1.50E-04	0.00E+00	1.50E-04
RESI	Closure-Base	Arsenic	Infant	8.79E-07	7.35E-11	3.03E-05	0.00E+00	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-07	3.03E-05	0.00E+00	3.12E-05
RESI	Closure-Base	Barium	Infant	7.49E-05	6.26E-09	8.72E-04	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	8.72E-04	0.00E+00	9.65E-04
RESI	Closure-Base	Beryllium	Infant	2.94E-07	2.46E-11	2.15E-06	0.00E+00	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-07	2.15E-06	0.00E+00	2.51E-06
RESI	Closure-Base	Chromium	Infant	2.14E-05	1.79E-09	0.00E+00	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	2.66E-05
RESI	Closure-Base	Cobalt	Infant	2.53E-06	2.11E-10	2.65E-04	0.00E+00	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	2.65E-04	0.00E+00	2.68E-04
RESI	Closure-Base	Iron	Infant	2.75E-02	2.30E-06	3.40E-02	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-02	3.40E-02	0.00E+00	6.83E-02
RESI	Closure-Base	Lead	Infant	2.29E-06	1.91E-10	0.00E+00	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	2.32E-06
RESI	Closure-Base	Manganese	Infant	6.05E-04	5.06E-08	1.81E-02	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	1.81E-02	0.00E+00	1.89E-02
RESI	Closure-Base	Mercury	Infant	6.03E-09	5.04E-13	0.00E+00	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-08	0.00E+00	0.00E+00	2.08E-08
RESI	Closure-Base	Molybdenum	Infant	2.70E-06	2.25E-10	4.18E-04	0.00E+00	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	4.18E-04	0.00E+00	4.21E-04
RESI	Closure-Base	Selenium	Infant	2.62E-07	2.19E-11	7.71E-05	0.00E+00	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07	7.71E-05	0.00E+00	7.74E-05
RESI	Post Closure-Base	Arsenic	Infant	8.79E-07	7.35E-11	0.00E+00	0.00E+00	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-07	0.00E+00	0.00E+00	9.44E-07
RESI	Post Closure-Base	Barium	Infant	7.49E-05	6.26E-09	8.10E-04	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	8.10E-04	0.00E+00	9.03E-04
RESI	Post Closure-Base	Beryllium	Infant	2.94E-07	2.46E-11	0.00E+00	0.00E+00	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-07	0.00E+00	0.00E+00	3.66E-07
RESI	Post Closure-Base	Chromium	Infant	2.14E-05	1.79E-09	0.00E+00	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	2.66E-05
RESI	Post Closure-Base	Cobalt	Infant	2.53E-06	2.11E-10	0.00E+00	0.00E+00	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	0.00E+00	0.00E+00	3.15E-06
RESI	Post Closure-Base	Iron	Infant	2.75E-02	2.30E-06	2.31E-02	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-02	2.31E-02	0.00E+00	5.74E-02
RESI	Post Closure-Base	Lead	Infant	2.29E-06	1.91E-10	0.00E+00	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	2.32E-06
RESI	Post Closure-Base	Manganese	Infant	6.05E-04	5.06E-08	1.61E-02	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	1.61E-02	0.00E+00	1.69E-02
RESI	Post Closure-Base	Mercury	Infant	6.03E-09	5.04E-13	0.00E+00	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-08	0.00E+00	0.00E+00	2.08E-08
RESI	Post Closure-Base	Molybdenum	Infant	2.70E-06	2.25E-10	2.45E-04	0.00E+00	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	2.45E-04	0.00E+00	2.48E-04
RESI	Post Closure-Base	Selenium	Infant	2.62E-07	2.19E-11	0.00E+00	0.00E+00	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07	0.00E+00	0.00E+00	2.68E-07

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Project-Base	Arsenic	Toddler	3.52E-06	2.77E-10	1.21E-04	2.02E-05	9.07E-08	2.51E-07	2.77E-06	1.27E-07	6.46E-07	3.91E-05	5.40E-07	2.31E-05	7.20E-07	2.56E-06	3.61E-06	1.41E-04	6.98E-05	2.15E-04
RESI	Project-Base	Barium	Toddler	2.99E-04	2.36E-08	1.79E-03	3.00E-04	2.57E-05	4.21E-05	2.93E-04	3.83E-05	5.75E-05	1.72E-03	2.06E-07	3.79E-07	6.73E-07	1.72E-04	3.25E-04	2.09E-03	2.33E-03	4.75E-03
RESI	Project-Base	Beryllium	Toddler	1.18E-06	9.27E-11	1.56E-05	2.61E-06	1.01E-07	1.45E-07	9.63E-07	1.50E-08	2.15E-07	3.23E-05	1.31E-08	1.05E-08	3.83E-08	1.28E-05	1.28E-06	1.82E-05	4.65E-05	6.60E-05
RESI	Project-Base	Chromium	Toddler	8.55E-05	6.74E-09	1.51E-06	2.52E-07	7.35E-06	1.06E-05	7.10E-05	3.28E-06	1.57E-05	9.56E-07	3.59E-04	7.23E-05	2.22E-04	3.91E-04	9.28E-05	1.76E-06	1.15E-03	1.24E-03
RESI	Project-Base	Cobalt	Toddler	1.01E-05	7.96E-10	8.82E-04	1.37E-04	8.69E-07	1.30E-06	9.23E-06	6.03E-07	1.88E-06	9.42E-04	5.25E-06	1.84E-04	2.83E-05	1.60E-04	1.10E-05	1.02E-03	1.33E-03	2.36E-03
RESI	Project-Base	Iron	Toddler	1.10E-01	8.68E-06	8.85E-02	1.48E-02	9.47E-03	1.36E-02	9.10E-02	9.39E-04	2.01E-02	5.98E-01	1.51E-01	4.42E-01	1.37E-01	7.44E-01	1.20E-01	1.03E-01	2.20E+00	2.42E+00
RESI	Project-Base	Lead	Toddler	9.14E-06	7.21E-10	0.00E+00	0.00E+00	4.72E-08	1.18E-06	8.04E-06	7.02E-07	1.70E-06	0.00E+00	1.98E-08	6.69E-06	4.22E-05	1.37E-04	9.19E-06	0.00E+00	1.98E-04	2.07E-04
RESI	Project-Base	Manganese	Toddler	2.42E-03	1.91E-07	5.20E-02	8.69E-03	2.08E-04	1.19E-03	5.24E-03	1.03E-03	9.35E-04	7.08E-02	4.02E-03	1.33E-03	1.01E-02	2.52E-03	2.63E-03	6.07E-02	9.72E-02	1.60E-01
RESI	Project-Base	Mercury	Toddler	2.41E-08	1.90E-12	0.00E+00	0.00E+00	2.07E-08	2.47E-08	1.38E-07	4.11E-08	1.65E-08	0.00E+00	3.68E-06	1.64E-06	3.72E-06	1.80E-06	4.48E-08	0.00E+00	1.11E-05	1.11E-05
RESI	Project-Base	Molybdenum	Toddler	1.08E-05	8.51E-10	1.23E-03	2.06E-04	9.28E-07	4.55E-06	2.34E-05	5.52E-06	3.76E-06	5.28E-03	1.99E-04	9.29E-04	3.50E-04	8.20E-04	1.17E-05	1.44E-03	7.61E-03	9.06E-03
RESI	Project-Base	Selenium	Toddler	1.05E-06	8.26E-11	2.99E-04	5.00E-05	9.01E-09	1.39E-07	9.54E-07	1.97E-07	1.97E-07	1.29E-03	2.21E-04	1.22E-02	3.15E-04	4.40E-03	1.06E-06	3.49E-04	1.84E-02	1.88E-02
RESI	Closure-Base	Arsenic	Toddler	3.52E-06	2.77E-10	6.06E-05	1.01E-05	9.07E-08	2.51E-07	2.77E-06	1.27E-07	6.46E-07	1.96E-05	5.40E-07	1.93E-05	7.20E-07	2.39E-06	3.61E-06	7.07E-05	4.63E-05	1.21E-04
RESI	Closure-Base	Barium	Toddler	2.99E-04	2.36E-08	1.74E-03	2.91E-04	2.57E-05	4.21E-05	2.93E-04	3.83E-05	5.75E-05	1.68E-03	2.06E-07	2.26E-07	6.73E-07	1.55E-04	3.25E-04	2.04E-03	2.26E-03	4.62E-03
RESI	Closure-Base	Beryllium	Toddler	1.18E-06	9.27E-11	4.30E-06	7.18E-07	1.01E-07	1.45E-07	9.63E-07	1.50E-08	2.15E-07	8.88E-06	1.31E-08	9.70E-09	3.83E-08	1.27E-05	1.28E-06	5.02E-06	2.29E-05	2.92E-05
RESI	Closure-Base	Chromium	Toddler	8.55E-05	6.74E-09	0.00E+00	0.00E+00	7.35E-06	1.06E-05	7.10E-05	3.28E-06	1.57E-05	0.00E+00	3.59E-04	6.40E-05	2.22E-04	3.68E-04	9.28E-05	0.00E+00	1.11E-03	1.21E-03
RESI	Closure-Base	Cobalt	Toddler	1.01E-05	7.96E-10	5.30E-04	8.21E-05	8.69E-07	1.30E-06	9.23E-06	6.03E-07	1.88E-06	5.67E-04	5.23E-06	1.43E-04	2.82E-05	1.47E-04	1.10E-05	6.13E-04	9.03E-04	1.53E-03
RESI	Closure-Base	Iron	Toddler	1.10E-01	8.68E-06	6.80E-02	1.14E-02	9.47E-03	1.36E-02	9.10E-02	9.39E-04	2.01E-02	4.59E-01	1.51E-01	2.31E-01	1.37E-01	6.08E-01	1.20E-01	7.93E-02	1.71E+00	1.91E+00
RESI	Closure-Base	Lead	Toddler	9.14E-06	7.21E-10	0.00E+00	0.00E+00	4.72E-08	1.18E-06	8.04E-06	7.02E-07	1.70E-06	0.00E+00	1.98E-08	6.69E-06	4.22E-05	1.37E-04	9.19E-06	0.00E+00	1.98E-04	2.07E-04
RESI	Closure-Base	Manganese	Toddler	2.42E-03	1.91E-07	3.62E-02	6.06E-03	2.08E-04	1.19E-03	5.24E-03	1.03E-03	9.35E-04	4.93E-02	4.02E-03	5.02E-05	1.01E-02	4.88E-04	2.63E-03	4.23E-02	7.24E-02	1.17E-01
RESI	Closure-Base	Mercury	Toddler	2.41E-08	1.90E-12	0.00E+00	0.00E+00	2.07E-08	2.47E-08	1.38E-07	4.11E-08	1.65E-08	0.00E+00	3.68E-06	1.64E-06	3.72E-06	1.80E-06	4.48E-08	0.00E+00	1.11E-05	1.11E-05
RESI	Closure-Base	Molybdenum	Toddler	1.08E-05	8.51E-10	8.36E-04	1.40E-04	9.28E-07	4.55E-06	2.34E-05	5.52E-06	3.76E-06	3.58E-03	1.99E-04	4.80E-04	3.49E-04	4.48E-04	1.17E-05	9.76E-04	5.09E-03	6.08E-03
RESI	Closure-Base	Selenium	Toddler	1.05E-06	8.26E-11	1.54E-04	2.58E-05	9.01E-09	1.39E-07	9.54E-07	1.97E-07	1.97E-07	6.63E-04	2.20E-04	9.10E-03	3.14E-04	3.33E-03	1.06E-06	1.80E-04	1.36E-02	1.38E-02
RESI	Post Closure-Base	Arsenic	Toddler	3.52E-06	2.77E-10	0.00E+00	0.00E+00	9.07E-08	2.51E-07	2.77E-06	1.27E-07	6.46E-07	0.00E+00	5.41E-07	3.35E-05	7.21E-07	3.03E-06	3.61E-06	0.00E+00	4.16E-05	4.52E-05
RESI	Post Closure-Base	Barium	Toddler	2.99E-04	2.36E-08	1.62E-03	2.71E-04	2.57E-05	4.21E-05	2.93E-04	3.83E-05	5.75E-05	1.56E-03	2.06E-07	3.65E-07	6.73E-07	1.70E-04	3.25E-04	1.89E-03	2.16E-03	4.38E-03
RESI	Post Closure-Base	Beryllium	Toddler	1.18E-06	9.27E-11	0.00E+00	0.00E+00	1.01E-07	1.45E-07	9.63E-07	1.50E-08	2.15E-07	0.00E+00	1.31E-08	8.88E-09	3.83E-08	1.25E-05	1.28E-06	0.00E+00	1.39E-05	1.52E-05
RESI	Post Closure-Base	Chromium	Toddler	8.55E-05	6.74E-09	0.00E+00	0.00E+00	7.35E-06	1.06E-05	7.10E-05	3.28E-06	1.57E-05	0.00E+00	3.59E-04	3.36E-05	2.22E-04	2.83E-04	9.28E-05	0.00E+00	9.98E-04	1.09E-03
RESI	Post Closure-Base	Cobalt	Toddler	1.01E-05	7.96E-10	0.00E+00	0.00E+00	8.69E-07	1.30E-06	9.23E-06	6.03E-07	1.88E-06	0.00E+00	5.20E-06	1.09E-04	2.82E-05	1.36E-04	1.10E-05	0.00E+00	2.92E-04	3.03E-04
RESI	Post Closure-Base	Iron	Toddler	1.10E-01	8.68E-06	4.63E-02	7.73E-03	9.47E-03	1.36E-02	9.10E-02	9.39E-04	2.01E-02	3.12E-01	1.51E-01	3.08E-01	1.37E-01	6.57E-01	1.20E-01	5.40E-02	1.69E+00	1.87E+00
RESI	Post Closure-Base	Lead	Toddler	9.14E-06	7.21E-10	0.00E+00	0.00E+00	4.72E-08	1.18E-06	8.04E-06	7.02E-07	1.70E-06	0.00E+00	1.98E-08	6.69E-06	4.22E-05	1.37E-04	9.19E-06	0.00E+00	1.98E-04	2.07E-04
RESI	Post Closure-Base	Manganese	Toddler	2.42E-03	1.91E-07	3.23E-02	5.39E-03	2.08E-04	1.19E-03	5.24E-03	1.03E-03	9.35E-04	4.39E-02	4.02E-03	8.47E-04	1.01E-02	1.75E-03	2.63E-03	3.77E-02	6.90E-02	1.09E-01
RESI	Post Closure-Base	Mercury	Toddler	2.41E-08	1.90E-12	0.00E+00	0.00E+00	2.07E-08	2.47E-08	1.38E-07	4.11E-08	1.65E-08	0.00E+00	3.68E-06	1.64E-06	3.72E-06	1.80E-06	4.48E-08	0.00E+00	1.11E-05	1.11E-05
RESI	Post Closure-Base	Molybdenum	Toddler	1.08E-05	8.51E-10	4.89E-04	8.17E-05	9.28E-07	4.55E-06	2.34E-05	5.52E-06	3.76E-06	2.10E-03	1.99E-04	1.07E-03	3.50E-04	9.37E-04	1.17E-05	5.71E-04	4.69E-03	5.27E-03
RESI	Post Closure-Base	Selenium	Toddler	1.05E-06	8.26E-11	0.00E+00	0.00E+00	9.01E-09	1.39E-07	9.54E-07	1.97E-07	1.97E-07	0.00E+00	2.26E-04	3.09E-02	3.22E-04	1.08E-02	1.06E-06	0.00E+00	4.23E-02	4.23E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Project-Base	Arsenic	Child	8.79E-07	4.84E-10	1.61E-04	2.18E-05	1.38E-07	5.32E-07	4.05E-06	1.95E-07	9.45E-07	6.49E-05	6.82E-07	2.92E-05	1.36E-06	3.48E-06	1.02E-06	1.83E-04	1.05E-04	2.89E-04
RESI	Project-Base	Barium	Child	7.49E-05	4.12E-08	2.39E-03	3.24E-04	3.91E-05	8.91E-05	4.29E-04	5.88E-05	8.42E-05	2.86E-03	2.60E-07	4.79E-07	1.27E-06	2.33E-04	1.14E-04	2.72E-03	3.76E-03	6.59E-03
RESI	Project-Base	Beryllium	Child	2.94E-07	1.62E-10	2.08E-05	2.82E-06	1.54E-07	3.07E-07	1.41E-06	2.31E-08	3.14E-07	5.36E-05	1.65E-08	1.33E-08	7.20E-08	1.74E-05	4.48E-07	2.37E-05	7.31E-05	9.72E-05
RESI	Project-Base	Chromium	Child	2.14E-05	1.18E-08	2.01E-06	2.72E-07	1.12E-05	2.25E-05	1.04E-04	5.03E-06	2.29E-05	1.59E-06	4.54E-04	9.13E-05	4.18E-04	5.30E-04	3.25E-05	2.28E-06	1.65E-03	1.68E-03
RESI	Project-Base	Cobalt	Child	2.53E-06	1.39E-09	1.18E-03	1.41E-04	1.32E-06	2.76E-06	1.35E-05	9.25E-07	2.75E-06	1.56E-03	6.63E-06	2.33E-04	5.33E-05	2.17E-04	3.85E-06	1.32E-03	2.09E-03	3.41E-03
RESI	Project-Base	Iron	Child	2.75E-02	1.52E-05	1.18E-01	1.60E-02	1.44E-02	2.88E-02	1.33E-01	1.44E-03	2.94E-02	9.92E-01	1.90E-01	5.58E-01	2.59E-01	1.01E+00	4.19E-02	1.34E-01	3.20E+00	3.38E+00
RESI	Project-Base	Lead	Child	2.29E-06	1.26E-09	0.00E+00	0.00E+00	7.17E-08	2.51E-06	1.18E-05	1.08E-06	2.49E-06	0.00E+00	2.49E-08	8.45E-06	7.94E-05	1.87E-04	2.36E-06	0.00E+00	2.92E-04	2.95E-04
RESI	Project-Base	Manganese	Child	6.05E-04	3.34E-07	6.93E-02	9.39E-03	3.16E-04	2.52E-03	7.67E-03	1.58E-03	1.37E-03	1.17E-01	5.08E-03	1.69E-03	1.90E-02	3.42E-03	9.22E-04	7.87E-02	1.60E-01	2.39E-01
RESI	Project-Base	Mercury	Child	6.03E-09	3.32E-12	0.00E+00	0.00E+00	3.15E-08	5.24E-08	2.01E-07	6.31E-08	2.41E-08	0.00E+00	4.65E-06	2.07E-06	7.01E-06	2.44E-06	3.75E-08	0.00E+00	1.65E-05	1.65E-05
RESI	Project-Base	Molybdenum	Child	2.70E-06	1.49E-09	1.64E-03	2.22E-04	1.41E-06	9.64E-06	3.42E-05	8.47E-06	5.49E-06	8.76E-03	2.52E-04	1.17E-03	6.59E-04	1.11E-03	4.11E-06	1.86E-03	1.20E-02	1.39E-02
RESI	Project-Base	Selenium	Child	2.62E-07	1.44E-10	3.99E-04	5.40E-05	1.37E-08	2.95E-07	1.40E-06	3.01E-07	2.88E-07	2.13E-03	2.79E-04	1.54E-02	5.92E-04	5.97E-03	2.76E-07	4.53E-04	2.44E-02	2.48E-02
RESI	Closure-Base	Arsenic	Child	8.79E-07	4.84E-10	8.08E-05	1.09E-05	1.38E-07	5.32E-07	4.05E-06	1.95E-07	9.45E-07	3.25E-05	6.82E-07	2.44E-05	1.35E-06	3.25E-06	1.02E-06	9.17E-05	6.79E-05	1.61E-04
RESI	Closure-Base	Barium	Child	7.49E-05	4.12E-08	2.33E-03	3.15E-04	3.91E-05	8.91E-05	4.29E-04	5.88E-05	8.42E-05	2.78E-03	2.60E-07	2.86E-07	1.27E-06	2.11E-04	1.14E-04	2.64E-03	3.66E-03	6.41E-03
RESI	Closure-Base	Beryllium	Child	2.94E-07	1.62E-10	5.73E-06	7.75E-07	1.54E-07	3.07E-07	1.41E-06	2.31E-08	3.14E-07	1.47E-05	1.65E-08	1.22E-08	7.20E-08	1.72E-05	4.48E-07	6.50E-06	3.41E-05	4.10E-05
RESI	Closure-Base	Chromium	Child	2.14E-05	1.18E-08	0.00E+00	0.00E+00	1.12E-05	2.25E-05	1.04E-04	5.03E-06	2.29E-05	0.00E+00	4.54E-04	8.08E-05	4.18E-04	4.99E-04	3.25E-05	0.00E+00	1.61E-03	1.64E-03
RESI	Closure-Base	Cobalt	Child	2.53E-06	1.39E-09	7.07E-04	8.50E-05	1.32E-06	2.76E-06	1.35E-05	9.25E-07	2.75E-06	9.41E-04	6.60E-06	1.80E-04	5.31E-05	1.99E-04	3.85E-06	7.92E-04	1.40E-03	2.20E-03
RESI	Closure-Base	Iron	Child	2.75E-02	1.52E-05	9.06E-02	1.23E-02	1.44E-02	2.88E-02	1.33E-01	1.44E-03	2.94E-02	7.62E-01	1.90E-01	2.92E-01	2.59E-01	8.25E-01	4.19E-02	1.03E-01	2.52E+00	2.67E+00
RESI	Closure-Base	Lead	Child	2.29E-06	1.26E-09	0.00E+00	0.00E+00	7.17E-08	2.51E-06	1.18E-05	1.08E-06	2.49E-06	0.00E+00	2.49E-08	8.45E-06	7.94E-05	1.87E-04	2.36E-06	0.00E+00	2.92E-04	2.95E-04
RESI	Closure-Base	Manganese	Child	6.05E-04	3.34E-07	4.83E-02	6.54E-03	3.16E-04	2.52E-03	7.67E-03	1.58E-03	1.37E-03	8.19E-02	5.07E-03	6.33E-05	1.90E-02	6.63E-04	9.22E-04	5.49E-02	1.20E-01	1.76E-01
RESI	Closure-Base	Mercury	Child	6.03E-09	3.32E-12	0.00E+00	0.00E+00	3.15E-08	5.24E-08	2.01E-07	6.31E-08	2.41E-08	0.00E+00	4.65E-06	2.07E-06	7.01E-06	2.44E-06	3.75E-08	0.00E+00	1.65E-05	1.65E-05
RESI	Closure-Base	Molybdenum	Child	2.70E-06	1.49E-09	1.11E-03	1.51E-04	1.41E-06	9.64E-06	3.42E-05	8.47E-06	5.49E-06	5.95E-03	2.51E-04	6.06E-04	6.57E-04	6.08E-04	4.11E-06	1.27E-03	8.13E-03	9.40E-03
RESI	Closure-Base	Selenium	Child	2.62E-07	1.44E-10	2.06E-04	2.78E-05	1.37E-08	2.95E-07	1.40E-06	3.01E-07	2.88E-07	1.10E-03	2.78E-04	1.15E-02	5.90E-04	4.53E-03	2.76E-07	2.34E-04	1.80E-02	1.82E-02
RESI	Post Closure-Base	Arsenic	Child	8.79E-07	4.84E-10	0.00E+00	0.00E+00	1.38E-07	5.32E-07	4.05E-06	1.95E-07	9.45E-07	0.00E+00	6.83E-07	4.23E-05	1.36E-06	4.12E-06	1.02E-06	0.00E+00	5.42E-05	5.52E-05
RESI	Post Closure-Base	Barium	Child	7.49E-05	4.12E-08	2.16E-03	2.92E-04	3.91E-05	8.91E-05	4.29E-04	5.88E-05	8.42E-05	2.59E-03	2.60E-07	4.60E-07	1.27E-06	2.31E-04	1.14E-04	2.45E-03	3.48E-03	6.05E-03
RESI	Post Closure-Base	Beryllium	Child	2.94E-07	1.62E-10	0.00E+00	0.00E+00	1.54E-07	3.07E-07	1.41E-06	2.31E-08	3.14E-07	0.00E+00	1.65E-08	1.12E-08	7.20E-08	1.70E-05	4.48E-07	0.00E+00	1.92E-05	1.96E-05
RESI	Post Closure-Base	Chromium	Child	2.14E-05	1.18E-08	0.00E+00	0.00E+00	1.12E-05	2.25E-05	1.04E-04	5.03E-06	2.29E-05	0.00E+00	4.54E-04	4.25E-05	4.17E-04	3.84E-04	3.25E-05	0.00E+00	1.45E-03	1.48E-03
RESI	Post Closure-Base	Cobalt	Child	2.53E-06	1.39E-09	0.00E+00	0.00E+00	1.32E-06	2.76E-06	1.35E-05	9.25E-07	2.75E-06	0.00E+00	6.57E-06	1.38E-04	5.30E-05	1.85E-04	3.85E-06	0.00E+00	4.02E-04	4.06E-04
RESI	Post Closure-Base	Iron	Child	2.75E-02	1.52E-05	6.17E-02	8.35E-03	1.44E-02	2.88E-02	1.33E-01	1.44E-03	2.94E-02	5.19E-01	1.90E-01	3.89E-01	2.59E-01	8.92E-01	4.19E-02	7.00E-02	2.44E+00	2.55E+00
RESI	Post Closure-Base	Lead	Child	2.29E-06	1.26E-09	0.00E+00	0.00E+00	7.17E-08	2.51E-06	1.18E-05	1.08E-06	2.49E-06	0.00E+00	2.49E-08	8.45E-06	7.94E-05	1.87E-04	2.36E-06	0.00E+00	2.92E-04	2.95E-04
RESI	Post Closure-Base	Manganese	Child	6.05E-04	3.34E-07	4.30E-02	5.82E-03	3.16E-04	2.52E-03	7.67E-03	1.58E-03	1.37E-03	7.29E-02	5.08E-03	1.07E-03	1.90E-02	2.37E-03	9.22E-04	4.88E-02	1.14E-01	1.63E-01
RESI	Post Closure-Base	Mercury	Child	6.03E-09	3.32E-12	0.00E+00	0.00E+00	3.15E-08	5.24E-08	2.01E-07	6.31E-08	2.41E-08	0.00E+00	4.65E-06	2.07E-06	7.01E-06	2.44E-06	3.75E-08	0.00E+00	1.65E-05	1.65E-05
RESI	Post Closure-Base	Molybdenum	Child	2.70E-06	1.49E-09	6.52E-04	8.83E-05	1.41E-06	9.64E-06	3.42E-05	8.47E-06	5.49E-06	3.48E-03	2.52E-04	1.35E-03	6.59E-04	1.27E-03	4.11E-06	7.40E-04	7.07E-03	7.81E-03
RESI	Post Closure-Base	Selenium	Child	2.62E-07	1.44E-10	0.00E+00	0.00E+00	1.37E-08	2.95E-07	1.40E-06	3.01E-07	2.88E-07	0.00E+00	2.85E-04	3.90E-02	6.06E-04	1.47E-02	2.76E-07	0.00E+00	5.46E-02	5.46E-02
RESI	Project-Base	Arsenic	Adolescent	8.79E-07	5.21E-10	2.02E-04	1.95E-05	2.00E-07	5.74E-07	4.96E-06	2.75E-07	1.16E-06	7.81E-05	8.29E-07	3.55E-05	2.58E-06	5.78E-06	1.08E-06	2.21E-04	1.30E-04	3.52E-04
RESI	Project-Base	Barium	Adolescent	7.49E-05	4.44E-08	2.99E-03	2.90E-04	5.69E-05	9.62E-05	5.26E-04	8.28E-05	1.03E-04	3.45E-03	3.16E-07	5.82E-07	2.41E-06	3.88E-04	1.32E-04	3.28E-03	4.65E-03	8.06E-03
RESI	Project-Base	Beryllium	Adolescent	2.94E-07	1.74E-10	2.60E-05	2.52E-06	2.23E-07	3.31E-07	1.72E-06	3.25E-08	3.84E-07	6.46E-05	2.01E-08	1.61E-08	1.37E-07	2.88E-05	5.17E-07	2.86E-05	9.61E-05	1.25E-04
RESI	Project-Base	Chromium	Adolescent	2.14E-05	1.27E-08	2.52E-06	2.44E-07	1.62E-05	2.43E-05	1.27E-04	7.09E-06	2.80E-05	1.91E-06	5.51E-04	1.11E-04	7.96E-04	8.81E-04	3.76E-05	2.76E-06	2.53E-03	2.57E-03
RESI	Project-Base	Cobalt	Adolescent	2.53E-06	1.50E-09	1.47E-03	1.15E-04	1.92E-06	2.98E-06	1.65E-05	1.30E-06	3.36E-06	1.88E-03	8.06E-06	2.83E-04	1.02E-04	3.60E-04	4.45E-06	1.58E-03	2.66E-03	4.25E-03
RESI	Project-Base	Iron	Adolescent	2.75E-02	1.63E-05	1.47E-01	1.43E-02	2.09E-02	3.11E-02	1.63E-01	2.03E-03	3.60E-02	1.20E+00	2.31E-01	6.78E-01	4.93E-01	1.68E+00	4.84E-02	1.62E-01	4.51E+00	4.72E+00
RESI	Project-Base	Lead	Adolescent	2.29E-06	1.36E-09	0.00E+00	0.00E+00	1.04E-07	2.71E-06	1.44E-05	1.52E-06	3.05E-06	0.00E+00	3.03E-08	1.03E-05	1.51E-04	3.10E-04	2.39E-06	0.00E+00	4.93E-04	4.96E-04
RESI	Project-Base	Manganese	Adolescent	6.05E-04	3.59E-07	8.67E-02	8.40E-03	4.60E-04	2.71E-03	9.39E-03	2.23E-03	1.68E-03	1.42E-01	6.18E-03	2.05E-03	3.63E-02	5.68E-03	1.07E-03	9.51E-02	2.08E-01	3.04E-01
RESI	Project-Base	Mercury	Adolescent	6.03E-09	3.57E-12	0.00E+00	0.00E+00	4.58E-08	5.65E-08	2.46E-07	8.89E-08	2.95E-08	0.00E+00	5.65E-06	2.51E-06	1.34E-05	4.06E-06	5.18E-08	0.00E+00	2.60E-05	2.60E-05
RESI	Project-Base	Molybdenum	Adolescent	2.70E-06	1.60E-09	2.05E-03	1.99E-04	2.05E-06	1.04E-05	4.18E-05	1.19E-05	6.73E-06	1.06E-02	3.06E-04	1.43E-03	1.26E-03	1.85E-03	4.75E-06	2.25E-03	1.55E-02	1.77E-02
RESI	Project-Base	Selenium	Adolescent	2.62E-07	1.55E-10	4.98E-04	4.83E-05	1.99E-08	3.19E-07	1.71E-06	4.25E-07	3.53E-07	2.57E-03	3.39E-04	1.87E-02	1.13E-03	9.91E-03	2.82E-07	5.47E-04	3.27E-02	3.32E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Closure-Base	Arsenic	Adolescent	8.79E-07	5.21E-10	1.01E-04	9.79E-06	2.00E-07	5.74E-07	4.96E-06	2.75E-07	1.16E-06	3.91E-05	8.29E-07	2.96E-05	2.58E-06	5.39E-06	1.08E-06	1.11E-04	8.45E-05	1.96E-04
RESI	Closure-Base	Barium	Adolescent	7.49E-05	4.44E-08	2.91E-03	2.82E-04	5.69E-05	9.62E-05	5.26E-04	8.28E-05	1.03E-04	3.35E-03	3.16E-07	3.47E-07	2.41E-06	3.50E-04	1.32E-04	3.19E-03	4.51E-03	7.83E-03
RESI	Closure-Base	Beryllium	Adolescent	2.94E-07	1.74E-10	7.16E-06	6.94E-07	2.23E-07	3.31E-07	1.72E-06	3.25E-08	3.84E-07	1.78E-05	2.01E-08	1.49E-08	1.37E-07	2.85E-05	5.17E-07	7.86E-06	4.89E-05	5.73E-05
RESI	Closure-Base	Chromium	Adolescent	2.14E-05	1.27E-08	0.00E+00	0.00E+00	1.62E-05	2.43E-05	1.27E-04	7.09E-06	2.80E-05	0.00E+00	5.51E-04	9.83E-05	7.96E-04	8.29E-04	3.76E-05	0.00E+00	2.46E-03	2.50E-03
RESI	Closure-Base	Cobalt	Adolescent	2.53E-06	1.50E-09	8.84E-04	6.93E-05	1.92E-06	2.98E-06	1.65E-05	1.30E-06	3.36E-06	1.13E-03	8.02E-06	2.19E-04	1.01E-04	3.31E-04	4.45E-06	9.53E-04	1.82E-03	2.78E-03
RESI	Closure-Base	Iron	Adolescent	2.75E-02	1.63E-05	1.13E-01	1.10E-02	2.09E-02	3.11E-02	1.63E-01	2.03E-03	3.60E-02	9.18E-01	2.31E-01	3.55E-01	4.93E-01	1.37E+00	4.84E-02	1.24E-01	3.60E+00	3.77E+00
RESI	Closure-Base	Lead	Adolescent	2.29E-06	1.36E-09	0.00E+00	0.00E+00	1.04E-07	2.71E-06	1.44E-05	1.52E-06	3.05E-06	0.00E+00	3.03E-08	1.03E-05	1.51E-04	3.10E-04	2.39E-06	0.00E+00	4.93E-04	4.96E-04
RESI	Closure-Base	Manganese	Adolescent	6.05E-04	3.59E-07	6.04E-02	5.85E-03	4.60E-04	2.71E-03	9.39E-03	2.23E-03	1.68E-03	9.86E-02	6.16E-03	7.70E-05	3.62E-02	1.10E-03	1.07E-03	6.63E-02	1.58E-01	2.26E-01
RESI	Closure-Base	Mercury	Adolescent	6.03E-09	3.57E-12	0.00E+00	0.00E+00	4.58E-08	5.65E-08	2.46E-07	8.89E-08	2.95E-08	0.00E+00	5.65E-06	2.51E-06	1.34E-05	4.06E-06	5.18E-08	0.00E+00	2.60E-05	2.60E-05
RESI	Closure-Base	Molybdenum	Adolescent	2.70E-06	1.60E-09	1.39E-03	1.35E-04	2.05E-06	1.04E-05	4.18E-05	1.19E-05	6.73E-06	7.16E-03	3.05E-04	7.36E-04	1.25E-03	1.01E-03	4.75E-06	1.53E-03	1.05E-02	1.21E-02
RESI	Closure-Base	Selenium	Adolescent	2.62E-07	1.55E-10	2.57E-04	2.49E-05	1.99E-08	3.19E-07	1.71E-06	4.25E-07	3.53E-07	1.33E-03	3.38E-04	1.40E-02	1.12E-03	7.52E-03	2.82E-07	2.82E-04	2.43E-02	2.46E-02
RESI	Post Closure-Base	Arsenic	Adolescent	8.79E-07	5.21E-10	0.00E+00	0.00E+00	2.00E-07	5.74E-07	4.96E-06	2.75E-07	1.16E-06	0.00E+00	8.31E-07	5.14E-05	2.59E-06	6.84E-06	1.08E-06	0.00E+00	6.86E-05	6.97E-05
RESI	Post Closure-Base	Barium	Adolescent	7.49E-05	4.44E-08	2.70E-03	2.62E-04	5.69E-05	9.62E-05	5.26E-04	8.28E-05	1.03E-04	3.12E-03	3.16E-07	5.59E-07	2.41E-06	3.84E-04	1.32E-04	2.96E-03	4.31E-03	7.40E-03
RESI	Post Closure-Base	Beryllium	Adolescent	2.94E-07	1.74E-10	0.00E+00	0.00E+00	2.23E-07	3.31E-07	1.72E-06	3.25E-08	3.84E-07	0.00E+00	2.01E-08	1.36E-08	1.37E-07	2.82E-05	5.17E-07	0.00E+00	3.09E-05	3.14E-05
RESI	Post Closure-Base	Chromium	Adolescent	2.14E-05	1.27E-08	0.00E+00	0.00E+00	1.62E-05	2.43E-05	1.27E-04	7.09E-06	2.80E-05	0.00E+00	5.51E-04	5.16E-05	7.96E-04	6.38E-04	3.76E-05	0.00E+00	2.22E-03	2.26E-03
RESI	Post Closure-Base	Cobalt	Adolescent	2.53E-06	1.50E-09	0.00E+00	0.00E+00	1.92E-06	2.98E-06	1.65E-05	1.30E-06	3.36E-06	0.00E+00	7.99E-06	1.67E-04	1.01E-04	3.08E-04	4.45E-06	0.00E+00	6.08E-04	6.12E-04
RESI	Post Closure-Base	Iron	Adolescent	2.75E-02	1.63E-05	7.71E-02	7.47E-03	2.09E-02	3.11E-02	1.63E-01	2.03E-03	3.60E-02	6.25E-01	2.31E-01	4.73E-01	4.93E-01	1.48E+00	4.84E-02	8.46E-02	3.54E+00	3.67E+00
RESI	Post Closure-Base	Lead	Adolescent	2.29E-06	1.36E-09	0.00E+00	0.00E+00	1.04E-07	2.71E-06	1.44E-05	1.52E-06	3.05E-06	0.00E+00	3.03E-08	1.03E-05	1.51E-04	3.10E-04	2.39E-06	0.00E+00	4.93E-04	4.96E-04
RESI	Post Closure-Base	Manganese	Adolescent	6.05E-04	3.59E-07	5.38E-02	5.21E-03	4.60E-04	2.71E-03	9.39E-03	2.23E-03	1.68E-03	8.78E-02	6.17E-03	1.30E-03	3.63E-02	3.94E-03	1.07E-03	5.90E-02	1.51E-01	2.12E-01
RESI	Post Closure-Base	Mercury	Adolescent	6.03E-09	3.57E-12	0.00E+00	0.00E+00	4.58E-08	5.65E-08	2.46E-07	8.89E-08	2.95E-08	0.00E+00	5.65E-06	2.51E-06	1.34E-05	4.06E-06	5.18E-08	0.00E+00	2.60E-05	2.60E-05
RESI	Post Closure-Base	Molybdenum	Adolescent	2.70E-06	1.60E-09	8.15E-04	7.90E-05	2.05E-06	1.04E-05	4.18E-05	1.19E-05	6.73E-06	4.19E-03	3.06E-04	1.64E-03	1.26E-03	2.11E-03	4.75E-06	8.94E-04	9.58E-03	1.05E-02
RESI	Post Closure-Base	Selenium	Adolescent	2.62E-07	1.55E-10	0.00E+00	0.00E+00	1.99E-08	3.19E-07	1.71E-06	4.25E-07	3.53E-07	0.00E+00	3.47E-04	4.74E-02	1.15E-03	2.44E-02	2.82E-07	0.00E+00	7.33E-02	7.33E-02
RESI	Project-Base	Arsenic	Adult	8.79E-07	5.54E-10	3.02E-04	1.84E-05	2.26E-07	5.51E-07	5.66E-06	2.28E-07	1.32E-06	7.81E-05	8.64E-07	3.69E-05	3.00E-06	5.86E-06	1.11E-06	3.21E-04	1.33E-04	4.54E-04
RESI	Project-Base	Barium	Adult	7.49E-05	4.72E-08	4.48E-03	2.73E-04	6.41E-05	9.24E-05	6.00E-04	6.86E-05	1.18E-04	3.45E-03	3.30E-07	6.07E-07	2.80E-06	3.93E-04	1.39E-04	4.76E-03	4.72E-03	9.62E-03
RESI	Project-Base	Beryllium	Adult	2.94E-07	1.85E-10	3.91E-05	2.38E-06	2.52E-07	3.18E-07	1.97E-06	2.69E-08	4.39E-07	6.46E-05	2.09E-08	1.68E-08	1.59E-07	2.92E-05	5.46E-07	4.14E-05	9.68E-05	1.39E-04
RESI	Project-Base	Chromium	Adult	2.14E-05	1.35E-08	3.77E-06	2.30E-07	1.83E-05	2.33E-05	1.45E-04	5.87E-06	3.20E-05	1.91E-06	5.74E-04	1.16E-04	9.23E-04	8.93E-04	3.97E-05	4.00E-06	2.71E-03	2.76E-03
RESI	Project-Base	Cobalt	Adult	2.53E-06	1.59E-09	2.20E-03	1.03E-04	2.16E-06	2.86E-06	1.89E-05	1.08E-06	3.84E-06	1.88E-03	8.40E-06	2.95E-04	1.18E-04	3.65E-04	4.69E-06	2.31E-03	2.70E-03	5.01E-03
RESI	Project-Base	Iron	Adult	2.75E-02	1.74E-05	2.21E-01	1.35E-02	2.36E-02	2.99E-02	1.86E-01	1.68E-03	4.11E-02	1.20E+00	2.41E-01	7.07E-01	5.72E-01	1.70E+00	5.11E-02	2.35E-01	4.67E+00	4.96E+00
RESI	Project-Base	Lead	Adult	2.29E-06	1.44E-09	0.00E+00	0.00E+00	1.17E-07	2.60E-06	1.64E-05	1.26E-06	3.48E-06	0.00E+00	3.16E-08	1.07E-05	1.76E-04	3.14E-04	2.41E-06	0.00E+00	5.24E-04	5.27E-04
RESI	Project-Base	Manganese	Adult	6.05E-04	3.82E-07	1.30E-01	7.91E-03	5.18E-04	2.61E-03	1.07E-02	1.85E-03	1.91E-03	1.42E-01	6.43E-03	2.13E-03	4.21E-02	5.76E-03	1.12E-03	1.38E-01	2.15E-01	3.54E-01
RESI	Project-Base	Mercury	Adult	6.03E-09	3.80E-12	0.00E+00	0.00E+00	5.16E-08	5.43E-08	2.81E-07	7.37E-08	3.37E-08	0.00E+00	5.88E-06	2.62E-06	1.55E-05	4.11E-06	5.76E-08	0.00E+00	2.86E-05	2.86E-05
RESI	Project-Base	Molybdenum	Adult	2.70E-06	1.70E-09	3.08E-03	1.87E-04	2.31E-06	9.99E-06	4.78E-05	9.89E-06	7.68E-06	1.06E-02	3.19E-04	1.48E-03	1.46E-03	1.87E-03	5.01E-06	3.27E-03	1.58E-02	1.90E-02
RESI	Project-Base	Selenium	Adult	2.62E-07	1.65E-10	7.48E-04	4.55E-05	2.24E-08	3.06E-07	1.95E-06	3.52E-07	4.03E-07	2.57E-03	3.54E-04	1.95E-02	1.31E-03	1.01E-02	2.84E-07	7.93E-04	3.38E-02	3.46E-02
RESI	Closure-Base	Arsenic	Adult	8.79E-07	5.54E-10	1.51E-04	9.21E-06	2.26E-07	5.51E-07	5.66E-06	2.28E-07	1.32E-06	3.91E-05	8.64E-07	3.09E-05	3.00E-06	5.47E-06	1.11E-06	1.61E-04	8.71E-05	2.49E-04
RESI	Closure-Base	Barium	Adult	7.49E-05	4.72E-08	4.36E-03	2.65E-04	6.41E-05	9.24E-05	6.00E-04	6.86E-05	1.18E-04	3.35E-03	3.29E-07	3.62E-07	2.80E-06	3.55E-04	1.39E-04	4.62E-03	4.59E-03	9.35E-03
RESI	Closure-Base	Beryllium	Adult	2.94E-07	1.85E-10	1.07E-05	6.54E-07	2.52E-07	3.18E-07	1.97E-06	2.69E-08	4.39E-07	1.78E-05	2.09E-08	1.55E-08	1.59E-07	2.89E-05	5.46E-07	1.14E-05	4.96E-05	6.16E-05
RESI	Closure-Base	Chromium	Adult	2.14E-05	1.35E-08	0.00E+00	0.00E+00	1.83E-05	2.33E-05	1.45E-04	5.87E-06	3.20E-05	0.00E+00	5.74E-04	1.02E-04	9.23E-04	8.41E-04	3.97E-05	0.00E+00	2.65E-03	2.69E-03
RESI	Closure-Base	Cobalt	Adult	2.53E-06	1.59E-09	1.33E-03	6.20E-05	2.16E-06	2.86E-06	1.89E-05	1.08E-06	3.84E-06	1.13E-03	8.36E-06	2.28E-04	1.17E-04	3.36E-04	4.69E-06	1.39E-03	1.85E-03	3.24E-03
RESI	Closure-Base	Iron	Adult	2.75E-02	1.74E-05	1.70E-01	1.03E-02	2.36E-02	2.99E-02	1.86E-01	1.68E-03	4.11E-02	9.18E-01	2.41E-01	3.70E-01	5.72E-01	1.39E+00	5.11E-02	1.80E-01	3.75E+00	3.98E+00
RESI	Closure-Base	Lead	Adult	2.29E-06	1.44E-09	0.00E+00	0.00E+00	1.17E-07	2.60E-06	1.64E-05	1.26E-06	3.48E-06	0.00E+00	3.16E-08	1.07E-05	1.76E-04	3.14E-04	2.41E-06	0.00E+00	5.24E-04	5.27E-04
RESI	Closure-Base	Manganese	Adult	6.05E-04	3.82E-07	9.06E-02	5.51E-03	5.18E-04	2.61E-03	1.07E-02	1.85E-03	1.91E-03	9.86E-02	6.42E-03	8.02E-05	4.20E-02	1.12E-03	1.12E-03	9.61E-02	1.65E-01	2.63E-01
RESI	Closure-Base	Mercury	Adult	6.03E-09	3.80E-12	0.00E+00	0.00E+00	5.16E-08	5.43E-08	2.81E-07	7.37E-08	3.37E-08	0.00E+00	5.88E-06	2.62E-06	1.55E-05	4.11E-06	5.76E-08	0.00E+00	2.86E-05	2.86E-05
RESI	Closure-Base	Molybdenum	Adult	2.70E-06	1.70E-09	2.09E-03	1.27E-04	2.31E-06	9.99E-06	4.78E-05	9.89E-06	7.68E-06	7.16E-03	3.18E-04	7.67E-04	1.45E-03	1.02E-03	5.01E-06	2.22E-03	1.08E-02	1.30E-02
RESI	Closure-Base	Selenium	Adult	2.62E-07	1.65E-10	3.86E-04	2.35E-05	2.24E-08	3.06E-07	1.95E-06	3.52E-07	4.03E-07	1.33E-03	3.52E-04	1.46E-02	1.30E-03	7.62E-03	2.84E-07	4.09E-04	2.52E-02	2.56E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Post Closure-Base	Arsenic	Adult	8.79E-07	5.54E-10	0.00E+00	0.00E+00	2.26E-07	5.51E-07	5.66E-06	2.28E-07	1.32E-06	0.00E+00	8.65E-07	5.35E-05	3.00E-06	6.93E-06	1.11E-06	0.00E+00	7.21E-05	7.32E-05
RESI	Post Closure-Base	Barium	Adult	7.49E-05	4.72E-08	4.05E-03	2.46E-04	6.41E-05	9.24E-05	6.00E-04	6.86E-05	1.18E-04	3.12E-03	3.30E-07	5.83E-07	2.80E-06	3.89E-04	1.39E-04	4.30E-03	4.39E-03	8.82E-03
RESI	Post Closure-Base	Beryllium	Adult	2.94E-07	1.85E-10	0.00E+00	0.00E+00	2.52E-07	3.18E-07	1.97E-06	2.69E-08	4.39E-07	0.00E+00	2.09E-08	1.42E-08	1.59E-07	2.86E-05	5.46E-07	0.00E+00	3.16E-05	3.21E-05
RESI	Post Closure-Base	Chromium	Adult	2.14E-05	1.35E-08	0.00E+00	0.00E+00	1.83E-05	2.33E-05	1.45E-04	5.87E-06	3.20E-05	0.00E+00	5.74E-04	5.38E-05	9.23E-04	6.47E-04	3.97E-05	0.00E+00	2.40E-03	2.44E-03
RESI	Post Closure-Base	Cobalt	Adult	2.53E-06	1.59E-09	0.00E+00	0.00E+00	2.16E-06	2.86E-06	1.89E-05	1.08E-06	3.84E-06	0.00E+00	8.32E-06	1.74E-04	1.17E-04	3.12E-04	4.69E-06	0.00E+00	6.38E-04	6.43E-04
RESI	Post Closure-Base	Iron	Adult	2.75E-02	1.74E-05	1.16E-01	7.04E-03	2.36E-02	2.99E-02	1.86E-01	1.68E-03	4.11E-02	6.25E-01	2.41E-01	4.93E-01	5.72E-01	1.50E+00	5.11E-02	1.23E-01	3.69E+00	3.87E+00
RESI	Post Closure-Base	Lead	Adult	2.29E-06	1.44E-09	0.00E+00	0.00E+00	1.17E-07	2.60E-06	1.64E-05	1.26E-06	3.48E-06	0.00E+00	3.16E-08	1.07E-05	1.76E-04	3.14E-04	2.41E-06	0.00E+00	5.24E-04	5.27E-04
RESI	Post Closure-Base	Manganese	Adult	6.05E-04	3.82E-07	8.07E-02	4.91E-03	5.18E-04	2.61E-03	1.07E-02	1.85E-03	1.91E-03	8.78E-02	6.43E-03	1.35E-03	4.21E-02	4.00E-03	1.12E-03	8.56E-02	1.59E-01	2.45E-01
RESI	Post Closure-Base	Mercury	Adult	6.03E-09	3.80E-12	0.00E+00	0.00E+00	5.16E-08	5.43E-08	2.81E-07	7.37E-08	3.37E-08	0.00E+00	5.88E-06	2.62E-06	1.55E-05	4.11E-06	5.76E-08	0.00E+00	2.86E-05	2.86E-05
RESI	Post Closure-Base	Molybdenum	Adult	2.70E-06	1.70E-09	1.22E-03	7.44E-05	2.31E-06	9.99E-06	4.78E-05	9.89E-06	7.68E-06	4.19E-03	3.19E-04	1.71E-03	1.46E-03	2.14E-03	5.01E-06	1.30E-03	9.89E-03	1.12E-02
RESI	Post Closure-Base	Selenium	Adult	2.62E-07	1.65E-10	0.00E+00	0.00E+00	2.24E-08	3.06E-07	1.95E-06	3.52E-07	4.03E-07	0.00E+00	3.61E-04	4.94E-02	1.34E-03	2.47E-02	2.84E-07	0.00E+00	7.58E-02	7.58E-02
RECR	Project-Base	Arsenic	Infant	8.79E-07	7.35E-11	6.05E-05	0.00E+00	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-07	6.05E-05	0.00E+00	6.14E-05
RECR	Project-Base	Barium	Infant	7.49E-05	6.26E-09	8.97E-04	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	8.97E-04	0.00E+00	9.90E-04
RECR	Project-Base	Beryllium	Infant	2.94E-07	2.46E-11	7.81E-06	0.00E+00	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-07	7.81E-06	0.00E+00	8.18E-06
RECR	Project-Base	Chromium	Infant	2.14E-05	1.79E-09	7.55E-07	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	7.55E-07	0.00E+00	2.74E-05
RECR	Project-Base	Cobalt	Infant	2.53E-06	2.11E-10	4.41E-04	0.00E+00	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	4.41E-04	0.00E+00	4.44E-04
RECR	Project-Base	Iron	Infant	2.75E-02	2.30E-06	4.42E-02	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-02	4.42E-02	0.00E+00	7.85E-02
RECR	Project-Base	Lead	Infant	2.29E-06	1.91E-10	0.00E+00	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	2.32E-06
RECR	Project-Base	Manganese	Infant	6.05E-04	5.06E-08	2.60E-02	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	2.60E-02	0.00E+00	2.68E-02
RECR	Project-Base	Mercury	Infant	6.03E-09	5.04E-13	0.00E+00	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-08	0.00E+00	0.00E+00	2.08E-08
RECR	Project-Base	Molybdenum	Infant	2.70E-06	2.25E-10	6.16E-04	0.00E+00	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	6.16E-04	0.00E+00	6.19E-04
RECR	Project-Base	Selenium	Infant	2.62E-07	2.19E-11	1.50E-04	0.00E+00	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07	1.50E-04	0.00E+00	1.50E-04
RECR	Closure-Base	Arsenic	Infant	8.79E-07	7.35E-11	3.03E-05	0.00E+00	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-07	3.03E-05	0.00E+00	3.12E-05
RECR	Closure-Base	Barium	Infant	7.49E-05	6.26E-09	8.72E-04	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	8.72E-04	0.00E+00	9.65E-04
RECR	Closure-Base	Beryllium	Infant	2.94E-07	2.46E-11	2.15E-06	0.00E+00	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-07	2.15E-06	0.00E+00	2.51E-06
RECR	Closure-Base	Chromium	Infant	2.14E-05	1.79E-09	0.00E+00	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	2.66E-05
RECR	Closure-Base	Cobalt	Infant	2.53E-06	2.11E-10	2.65E-04	0.00E+00	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	2.65E-04	0.00E+00	2.68E-04
RECR	Closure-Base	Iron	Infant	2.75E-02	2.30E-06	3.40E-02	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-02	3.40E-02	0.00E+00	6.83E-02
RECR	Closure-Base	Lead	Infant	2.29E-06	1.91E-10	0.00E+00	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	2.32E-06
RECR	Closure-Base	Manganese	Infant	6.05E-04	5.06E-08	1.81E-02	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	1.81E-02	0.00E+00	1.89E-02
RECR	Closure-Base	Mercury	Infant	6.03E-09	5.04E-13	0.00E+00	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-08	0.00E+00	0.00E+00	2.08E-08
RECR	Closure-Base	Molybdenum	Infant	2.70E-06	2.25E-10	4.18E-04	0.00E+00	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	4.18E-04	0.00E+00	4.21E-04
RECR	Closure-Base	Selenium	Infant	2.62E-07	2.19E-11	7.71E-05	0.00E+00	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07	7.71E-05	0.00E+00	7.74E-05
RECR	Post Closure-Base	Arsenic	Infant	8.79E-07	7.35E-11	0.00E+00	0.00E+00	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-07	0.00E+00	0.00E+00	9.44E-07
RECR	Post Closure-Base	Barium	Infant	7.49E-05	6.26E-09	8.10E-04	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	8.10E-04	0.00E+00	9.03E-04
RECR	Post Closure-Base	Beryllium	Infant	2.94E-07	2.46E-11	0.00E+00	0.00E+00	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-07	0.00E+00	0.00E+00	3.66E-07
RECR	Post Closure-Base	Chromium	Infant	2.14E-05	1.79E-09	0.00E+00	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	2.66E-05
RECR	Post Closure-Base	Cobalt	Infant	2.53E-06	2.11E-10	0.00E+00	0.00E+00	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	0.00E+00	0.00E+00	3.15E-06
RECR	Post Closure-Base	Iron	Infant	2.75E-02	2.30E-06	2.31E-02	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-02	2.31E-02	0.00E+00	5.74E-02
RECR	Post Closure-Base	Lead	Infant	2.29E-06	1.91E-10	0.00E+00	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	2.32E-06
RECR	Post Closure-Base	Manganese	Infant	6.05E-04	5.06E-08	1.61E-02	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	1.61E-02	0.00E+00	1.69E-02
RECR	Post Closure-Base	Mercury	Infant	6.03E-09	5.04E-13	0.00E+00	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-08	0.00E+00	0.00E+00	2.08E-08
RECR	Post Closure-Base	Molybdenum	Infant	2.70E-06	2.25E-10	2.45E-04	0.00E+00	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	2.45E-04	0.00E+00	2.48E-04
RECR	Post Closure-Base	Selenium	Infant	2.62E-07	2.19E-11	0.00E+00	0.00E+00	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07	0.00E+00	0.00E+00	2.68E-07

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Project-Base	Arsenic	Toddler	3.52E-06	2.77E-10	1.21E-04	2.02E-05	9.07E-08	5.02E-08	5.54E-07	2.54E-08	1.29E-07	1.93E-05	1.08E-07	4.62E-06	1.44E-07	5.13E-07	3.61E-06	1.41E-04	2.55E-05	1.70E-04
RECR	Project-Base	Barium	Toddler	2.99E-04	2.36E-08	1.79E-03	3.00E-04	2.57E-05	8.41E-06	5.87E-05	7.66E-06	1.15E-05	8.54E-04	4.12E-08	7.59E-08	1.35E-07	3.44E-05	3.25E-04	2.09E-03	9.75E-04	3.39E-03
RECR	Project-Base	Beryllium	Toddler	1.18E-06	9.27E-11	1.56E-05	2.61E-06	1.01E-07	2.89E-08	1.93E-07	3.01E-09	4.29E-08	1.60E-05	2.61E-09	2.10E-09	7.65E-09	2.56E-06	1.28E-06	1.82E-05	1.88E-05	3.83E-05
RECR	Project-Base	Chromium	Toddler	8.55E-05	6.74E-09	1.51E-06	2.52E-07	7.35E-06	2.13E-06	1.42E-05	6.56E-07	3.13E-06	4.73E-07	7.18E-05	1.45E-05	4.44E-05	7.82E-05	9.28E-05	1.76E-06	2.29E-04	3.24E-04
RECR	Project-Base	Cobalt	Toddler	1.01E-05	7.96E-10	8.82E-04	1.37E-04	8.69E-07	2.61E-07	1.85E-06	1.21E-07	3.75E-07	4.66E-04	1.05E-06	3.69E-05	5.67E-06	3.19E-05	1.10E-05	1.02E-03	5.44E-04	1.57E-03
RECR	Project-Base	Iron	Toddler	1.10E-01	8.68E-06	8.85E-02	1.48E-02	9.47E-03	2.72E-03	1.82E-02	1.88E-04	4.02E-03	2.96E-01	3.02E-02	8.84E-02	2.75E-02	1.49E-01	1.20E-01	1.03E-01	6.16E-01	8.39E-01
RECR	Project-Base	Lead	Toddler	9.14E-06	7.21E-10	0.00E+00	0.00E+00	4.72E-08	2.37E-07	1.61E-06	1.40E-07	3.40E-07	0.00E+00	3.95E-09	1.34E-06	8.44E-06	2.75E-05	9.19E-06	0.00E+00	3.96E-05	4.88E-05
RECR	Project-Base	Manganese	Toddler	2.42E-03	1.91E-07	5.20E-02	8.69E-03	2.08E-04	2.38E-04	1.05E-03	2.07E-04	1.87E-04	3.50E-02	8.05E-04	2.67E-04	2.02E-03	5.04E-04	2.63E-03	6.07E-02	4.03E-02	1.04E-01
RECR	Project-Base	Mercury	Toddler	2.41E-08	1.90E-12	0.00E+00	0.00E+00	2.07E-08	4.94E-09	2.75E-08	8.23E-09	3.29E-09	0.00E+00	7.36E-07	3.28E-07	7.45E-07	3.60E-07	4.48E-08	0.00E+00	2.21E-06	2.26E-06
RECR	Project-Base	Molybdenum	Toddler	1.08E-05	8.51E-10	1.23E-03	2.06E-04	9.28E-07	9.10E-07	4.67E-06	1.10E-06	7.51E-07	2.61E-03	3.98E-05	1.86E-04	7.00E-05	1.64E-04	1.17E-05	1.44E-03	3.08E-03	4.53E-03
RECR	Project-Base	Selenium	Toddler	1.05E-06	8.26E-11	2.99E-04	5.00E-05	9.01E-09	2.79E-08	1.91E-07	3.93E-08	3.94E-08	6.36E-04	4.42E-05	2.44E-03	6.29E-05	8.79E-04	1.06E-06	3.49E-04	4.06E-03	4.41E-03
RECR	Closure-Base	Arsenic	Toddler	3.52E-06	2.77E-10	6.06E-05	1.01E-05	9.07E-08	5.02E-08	5.54E-07	2.54E-08	1.29E-07	9.68E-06	1.08E-07	3.86E-06	1.44E-07	4.78E-07	3.61E-06	7.07E-05	1.50E-05	8.93E-05
RECR	Closure-Base	Barium	Toddler	2.99E-04	2.36E-08	1.74E-03	2.91E-04	2.57E-05	8.41E-06	5.87E-05	7.66E-06	1.15E-05	8.30E-04	4.12E-08	4.53E-08	1.35E-07	3.11E-05	3.25E-04	2.04E-03	9.48E-04	3.31E-03
RECR	Closure-Base	Beryllium	Toddler	1.18E-06	9.27E-11	4.30E-06	7.18E-07	1.01E-07	2.89E-08	1.93E-07	3.01E-09	4.29E-08	4.40E-06	2.61E-09	1.94E-09	7.65E-09	2.53E-06	1.28E-06	5.02E-06	7.21E-06	1.35E-05
RECR	Closure-Base	Chromium	Toddler	8.55E-05	6.74E-09	0.00E+00	0.00E+00	7.35E-06	2.13E-06	1.42E-05	6.56E-07	3.13E-06	0.00E+00	7.18E-05	1.28E-05	4.44E-05	7.36E-05	9.28E-05	0.00E+00	2.23E-04	3.15E-04
RECR	Closure-Base	Cobalt	Toddler	1.01E-05	7.96E-10	5.30E-04	8.21E-05	8.69E-07	2.61E-07	1.85E-06	1.21E-07	3.75E-07	2.81E-04	1.05E-06	2.86E-05	5.65E-06	2.94E-05	1.10E-05	6.13E-04	3.48E-04	9.71E-04
RECR	Closure-Base	Iron	Toddler	1.10E-01	8.68E-06	6.80E-02	1.14E-02	9.47E-03	2.72E-03	1.82E-02	1.88E-04	4.02E-03	2.27E-01	3.02E-02	4.63E-02	2.75E-02	1.22E-01	1.20E-01	7.93E-02	4.78E-01	6.77E-01
RECR	Closure-Base	Lead	Toddler	9.14E-06	7.21E-10	0.00E+00	0.00E+00	4.72E-08	2.37E-07	1.61E-06	1.40E-07	3.40E-07	0.00E+00	3.95E-09	1.34E-06	8.44E-06	2.75E-05	9.19E-06	0.00E+00	3.96E-05	4.88E-05
RECR	Closure-Base	Manganese	Toddler	2.42E-03	1.91E-07	3.62E-02	6.06E-03	2.08E-04	2.38E-04	1.05E-03	2.07E-04	1.87E-04	2.44E-02	8.03E-04	1.00E-05	2.02E-03	9.77E-05	2.63E-03	4.23E-02	2.90E-02	7.39E-02
RECR	Closure-Base	Mercury	Toddler	2.41E-08	1.90E-12	0.00E+00	0.00E+00	2.07E-08	4.94E-09	2.75E-08	8.23E-09	3.29E-09	0.00E+00	7.36E-07	3.28E-07	7.45E-07	3.60E-07	4.48E-08	0.00E+00	2.21E-06	2.26E-06
RECR	Closure-Base	Molybdenum	Toddler	1.08E-05	8.51E-10	8.36E-04	1.40E-04	9.28E-07	9.10E-07	4.67E-06	1.10E-06	7.51E-07	1.77E-03	3.98E-05	9.59E-05	6.99E-05	8.96E-05	1.17E-05	9.76E-04	2.08E-03	3.06E-03
RECR	Closure-Base	Selenium	Toddler	1.05E-06	8.26E-11	1.54E-04	2.58E-05	9.01E-09	2.79E-08	1.91E-07	3.93E-08	3.94E-08	3.28E-04	4.41E-05	1.82E-03	6.27E-05	6.67E-04	1.06E-06	1.80E-04	2.92E-03	3.10E-03
RECR	Post Closure-Base	Arsenic	Toddler	3.52E-06	2.77E-10	0.00E+00	0.00E+00	9.07E-08	5.02E-08	5.54E-07	2.54E-08	1.29E-07	0.00E+00	1.08E-07	6.70E-06	1.44E-07	6.06E-07	3.61E-06	0.00E+00	8.31E-06	1.19E-05
RECR	Post Closure-Base	Barium	Toddler	2.99E-04	2.36E-08	1.62E-03	2.71E-04	2.57E-05	8.41E-06	5.87E-05	7.66E-06	1.15E-05	7.71E-04	4.12E-08	7.29E-08	1.35E-07	3.41E-05	3.25E-04	1.89E-03	8.92E-04	3.11E-03
RECR	Post Closure-Base	Beryllium	Toddler	1.18E-06	9.27E-11	0.00E+00	0.00E+00	1.01E-07	2.89E-08	1.93E-07	3.01E-09	4.29E-08	0.00E+00	2.61E-09	1.78E-09	7.65E-09	2.51E-06	1.28E-06	0.00E+00	2.78E-06	4.06E-06
RECR	Post Closure-Base	Chromium	Toddler	8.55E-05	6.74E-09	0.00E+00	0.00E+00	7.35E-06	2.13E-06	1.42E-05	6.56E-07	3.13E-06	0.00E+00	7.18E-05	6.73E-06	4.44E-05	5.66E-05	9.28E-05	0.00E+00	2.00E-04	2.92E-04
RECR	Post Closure-Base	Cobalt	Toddler	1.01E-05	7.96E-10	0.00E+00	0.00E+00	8.69E-07	2.61E-07	1.85E-06	1.21E-07	3.75E-07	0.00E+00	1.04E-06	2.18E-05	5.63E-06	2.73E-05	1.10E-05	0.00E+00	5.84E-05	6.93E-05
RECR	Post Closure-Base	Iron	Toddler	1.10E-01	8.68E-06	4.63E-02	7.73E-03	9.47E-03	2.72E-03	1.82E-02	1.88E-04	4.02E-03	1.55E-01	3.02E-02	6.16E-02	2.75E-02	1.31E-01	1.20E-01	5.40E-02	4.30E-01	6.04E-01
RECR	Post Closure-Base	Lead	Toddler	9.14E-06	7.21E-10	0.00E+00	0.00E+00	4.72E-08	2.37E-07	1.61E-06	1.40E-07	3.40E-07	0.00E+00	3.95E-09	1.34E-06	8.44E-06	2.75E-05	9.19E-06	0.00E+00	3.96E-05	4.88E-05
RECR	Post Closure-Base	Manganese	Toddler	2.42E-03	1.91E-07	3.23E-02	5.39E-03	2.08E-04	2.38E-04	1.05E-03	2.07E-04	1.87E-04	2.17E-02	8.04E-04	1.69E-04	2.02E-03	3.50E-04	2.63E-03	3.77E-02	2.68E-02	6.70E-02
RECR	Post Closure-Base	Mercury	Toddler	2.41E-08	1.90E-12	0.00E+00	0.00E+00	2.07E-08	4.94E-09	2.75E-08	8.23E-09	3.29E-09	0.00E+00	7.36E-07	3.28E-07	7.45E-07	3.60E-07	4.48E-08	0.00E+00	2.21E-06	2.26E-06
RECR	Post Closure-Base	Molybdenum	Toddler	1.08E-05	8.51E-10	4.89E-04	8.17E-05	9.28E-07	9.10E-07	4.67E-06	1.10E-06	7.51E-07	1.04E-03	3.99E-05	2.14E-04	7.01E-05	1.87E-04	1.17E-05	5.71E-04	1.56E-03	2.14E-03
RECR	Post Closure-Base	Selenium	Toddler	1.05E-06	8.26E-11	0.00E+00	0.00E+00	9.01E-09	2.79E-08	1.91E-07	3.93E-08	3.94E-08	0.00E+00	4.52E-05	6.18E-03	6.44E-05	2.16E-03	1.06E-06	0.00E+00	8.45E-03	8.45E-03

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Project-Base	Arsenic	Child	8.79E-07	4.84E-10	1.61E-04	2.18E-05	1.38E-07	1.06E-07	8.10E-07	3.90E-08	1.89E-07	2.75E-05	1.36E-07	5.84E-06	2.71E-07	6.96E-07	1.02E-06	1.83E-04	3.56E-05	2.20E-04
RECR	Project-Base	Barium	Child	7.49E-05	4.12E-08	2.39E-03	3.24E-04	3.91E-05	1.78E-05	8.58E-05	1.18E-05	1.68E-05	1.21E-03	5.21E-08	9.58E-08	2.53E-07	4.67E-05	1.14E-04	2.72E-03	1.39E-03	4.22E-03
RECR	Project-Base	Beryllium	Child	2.94E-07	1.62E-10	2.08E-05	2.82E-06	1.54E-07	6.13E-08	2.82E-07	4.61E-09	6.28E-08	2.27E-05	3.30E-09	2.65E-09	1.44E-08	3.47E-06	4.48E-07	2.37E-05	2.66E-05	5.07E-05
RECR	Project-Base	Chromium	Child	2.14E-05	1.18E-08	2.01E-06	2.72E-07	1.12E-05	4.51E-06	2.08E-05	1.01E-06	4.58E-06	6.73E-07	9.07E-05	1.83E-05	8.35E-05	1.06E-04	3.25E-05	2.28E-06	3.30E-04	3.65E-04
RECR	Project-Base	Cobalt	Child	2.53E-06	1.39E-09	1.18E-03	1.41E-04	1.32E-06	5.53E-07	2.70E-06	1.85E-07	5.49E-07	6.63E-04	1.33E-06	4.66E-05	1.07E-05	4.34E-05	3.85E-06	1.32E-03	7.69E-04	2.09E-03
RECR	Project-Base	Iron	Child	2.75E-02	1.52E-05	1.18E-01	1.60E-02	1.44E-02	5.77E-03	2.66E-02	2.88E-04	5.89E-03	4.21E-01	3.81E-02	1.12E-01	5.17E-02	2.02E-01	4.19E-02	1.34E-01	8.63E-01	1.04E+00
RECR	Project-Base	Lead	Child	2.29E-06	1.26E-09	0.00E+00	0.00E+00	7.17E-08	5.02E-07	2.35E-06	2.15E-07	4.98E-07	0.00E+00	4.99E-09	1.69E-06	1.59E-05	3.73E-05	2.36E-06	0.00E+00	5.85E-05	6.08E-05
RECR	Project-Base	Manganese	Child	6.05E-04	3.34E-07	6.93E-02	9.39E-03	3.16E-04	5.03E-04	1.53E-03	3.17E-04	2.74E-04	4.98E-02	1.02E-03	3.37E-04	3.81E-03	6.84E-04	9.22E-04	7.87E-02	5.83E-02	1.38E-01
RECR	Project-Base	Mercury	Child	6.03E-09	3.32E-12	0.00E+00	0.00E+00	3.15E-08	1.05E-08	4.02E-08	1.26E-08	4.82E-09	0.00E+00	9.29E-07	4.14E-07	1.40E-06	4.88E-07	3.75E-08	0.00E+00	3.30E-06	3.34E-06
RECR	Project-Base	Molybdenum	Child	2.70E-06	1.49E-09	1.64E-03	2.22E-04	1.41E-06	1.93E-06	6.83E-06	1.69E-06	1.10E-06	3.71E-03	5.03E-05	2.35E-04	1.32E-04	2.22E-04	4.11E-06	1.86E-03	4.37E-03	6.23E-03
RECR	Project-Base	Selenium	Child	2.62E-07	1.44E-10	3.99E-04	5.40E-05	1.37E-08	5.90E-08	2.79E-07	6.03E-08	5.76E-08	9.05E-04	5.59E-05	3.08E-03	1.18E-04	1.19E-03	2.76E-07	4.53E-04	5.35E-03	5.81E-03
RECR	Closure-Base	Arsenic	Child	8.79E-07	4.84E-10	8.08E-05	1.09E-05	1.38E-07	1.06E-07	8.10E-07	3.90E-08	1.89E-07	1.38E-05	1.36E-07	4.87E-06	2.71E-07	6.49E-07	1.02E-06	9.17E-05	2.08E-05	1.14E-04
RECR	Closure-Base	Barium	Child	7.49E-05	4.12E-08	2.33E-03	3.15E-04	3.91E-05	1.78E-05	8.58E-05	1.18E-05	1.68E-05	1.18E-03	5.20E-08	5.72E-08	2.53E-07	4.22E-05	1.14E-04	2.64E-03	1.36E-03	4.11E-03
RECR	Closure-Base	Beryllium	Child	2.94E-07	1.62E-10	5.73E-06	7.75E-07	1.54E-07	6.13E-08	2.82E-07	4.61E-09	6.28E-08	6.25E-06	3.30E-09	2.45E-09	1.44E-08	3.44E-06	4.48E-07	6.50E-06	1.01E-05	1.71E-05
RECR	Closure-Base	Chromium	Child	2.14E-05	1.18E-08	0.00E+00	0.00E+00	1.12E-05	4.51E-06	2.08E-05	1.01E-06	4.58E-06	0.00E+00	9.07E-05	1.62E-05	8.35E-05	9.98E-05	3.25E-05	0.00E+00	3.21E-04	3.54E-04
RECR	Closure-Base	Cobalt	Child	2.53E-06	1.39E-09	7.07E-04	8.50E-05	1.32E-06	5.53E-07	2.70E-06	1.85E-07	5.49E-07	3.99E-04	1.32E-06	3.61E-05	1.06E-05	3.99E-05	3.85E-06	7.92E-04	4.91E-04	1.29E-03
RECR	Closure-Base	Iron	Child	2.75E-02	1.52E-05	9.06E-02	1.23E-02	1.44E-02	5.77E-03	2.66E-02	2.88E-04	5.89E-03	3.23E-01	3.81E-02	5.84E-02	5.17E-02	1.65E-01	4.19E-02	1.03E-01	6.75E-01	8.20E-01
RECR	Closure-Base	Lead	Child	2.29E-06	1.26E-09	0.00E+00	0.00E+00	7.17E-08	5.02E-07	2.35E-06	2.15E-07	4.98E-07	0.00E+00	4.99E-09	1.69E-06	1.59E-05	3.73E-05	2.36E-06	0.00E+00	5.85E-05	6.08E-05
RECR	Closure-Base	Manganese	Child	6.05E-04	3.34E-07	4.83E-02	6.54E-03	3.16E-04	5.03E-04	1.53E-03	3.17E-04	2.74E-04	3.47E-02	1.01E-03	1.27E-05	3.80E-03	1.33E-04	9.22E-04	5.49E-02	4.23E-02	9.81E-02
RECR	Closure-Base	Mercury	Child	6.03E-09	3.32E-12	0.00E+00	0.00E+00	3.15E-08	1.05E-08	4.02E-08	1.26E-08	4.82E-09	0.00E+00	9.29E-07	4.14E-07	1.40E-06	4.88E-07	3.75E-08	0.00E+00	3.30E-06	3.34E-06
RECR	Closure-Base	Molybdenum	Child	2.70E-06	1.49E-09	1.11E-03	1.51E-04	1.41E-06	1.93E-06	6.83E-06	1.69E-06	1.10E-06	2.52E-03	5.02E-05	1.21E-04	1.31E-04	1.22E-04	4.11E-06	1.27E-03	2.96E-03	4.23E-03
RECR	Closure-Base	Selenium	Child	2.62E-07	1.44E-10	2.06E-04	2.78E-05	1.37E-08	5.90E-08	2.79E-07	6.03E-08	5.76E-08	4.67E-04	5.57E-05	2.30E-03	1.18E-04	9.05E-04	2.76E-07	2.34E-04	3.85E-03	4.08E-03
RECR	Post Closure-Base	Arsenic	Child	8.79E-07	4.84E-10	0.00E+00	0.00E+00	1.38E-07	1.06E-07	8.10E-07	3.90E-08	1.89E-07	0.00E+00	1.37E-07	8.46E-06	2.71E-07	8.23E-07	1.02E-06	0.00E+00	1.08E-05	1.19E-05
RECR	Post Closure-Base	Barium	Child	7.49E-05	4.12E-08	2.16E-03	2.92E-04	3.91E-05	1.78E-05	8.58E-05	1.18E-05	1.68E-05	1.10E-03	5.20E-08	9.21E-08	2.53E-07	4.62E-05	1.14E-04	2.45E-03	1.28E-03	3.84E-03
RECR	Post Closure-Base	Beryllium	Child	2.94E-07	1.62E-10	0.00E+00	0.00E+00	1.54E-07	6.13E-08	2.82E-07	4.61E-09	6.28E-08	0.00E+00	3.30E-09	2.24E-09	1.44E-08	3.40E-06	4.48E-07	0.00E+00	3.83E-06	4.28E-06
RECR	Post Closure-Base	Chromium	Child	2.14E-05	1.18E-08	0.00E+00	0.00E+00	1.12E-05	4.51E-06	2.08E-05	1.01E-06	4.58E-06	0.00E+00	9.07E-05	8.49E-06	8.35E-05	7.69E-05	3.25E-05	0.00E+00	2.90E-04	3.23E-04
RECR	Post Closure-Base	Cobalt	Child	2.53E-06	1.39E-09	0.00E+00	0.00E+00	1.32E-06	5.53E-07	2.70E-06	1.85E-07	5.49E-07	0.00E+00	1.31E-06	2.75E-05	1.06E-05	3.71E-05	3.85E-06	0.00E+00	8.05E-05	8.43E-05
RECR	Post Closure-Base	Iron	Child	2.75E-02	1.52E-05	6.17E-02	8.35E-03	1.44E-02	5.77E-03	2.66E-02	2.88E-04	5.89E-03	2.20E-01	3.81E-02	7.78E-02	5.17E-02	1.78E-01	4.19E-02	7.00E-02	6.05E-01	7.16E-01
RECR	Post Closure-Base	Lead	Child	2.29E-06	1.26E-09	0.00E+00	0.00E+00	7.17E-08	5.02E-07	2.35E-06	2.15E-07	4.98E-07	0.00E+00	4.99E-09	1.69E-06	1.59E-05	3.73E-05	2.36E-06	0.00E+00	5.85E-05	6.08E-05
RECR	Post Closure-Base	Manganese	Child	6.05E-04	3.34E-07	4.30E-02	5.82E-03	3.16E-04	5.03E-04	1.53E-03	3.17E-04	2.74E-04	3.09E-02	1.02E-03	2.14E-04	3.80E-03	4.75E-04	9.22E-04	4.88E-02	3.90E-02	8.88E-02
RECR	Post Closure-Base	Mercury	Child	6.03E-09	3.32E-12	0.00E+00	0.00E+00	3.15E-08	1.05E-08	4.02E-08	1.26E-08	4.82E-09	0.00E+00	9.29E-07	4.14E-07	1.40E-06	4.88E-07	3.75E-08	0.00E+00	3.30E-06	3.34E-06
RECR	Post Closure-Base	Molybdenum	Child	2.70E-06	1.49E-09	6.52E-04	8.83E-05	1.41E-06	1.93E-06	6.83E-06	1.69E-06	1.10E-06	1.48E-03	5.04E-05	2.70E-04	1.32E-04	2.54E-04	4.11E-06	7.40E-04	2.19E-03	2.94E-03
RECR	Post Closure-Base	Selenium	Child	2.62E-07	1.44E-10	0.00E+00	0.00E+00	1.37E-08	5.90E-08	2.79E-07	6.03E-08	5.76E-08	0.00E+00	5.71E-05	7.80E-03	1.21E-04	2.94E-03	2.76E-07	0.00E+00	1.09E-02	1.09E-02
RECR	Project-Base	Arsenic	Adolescent	8.79E-07	5.21E-10	2.02E-04	1.95E-05	2.00E-07	1.15E-07	9.92E-07	5.50E-08	2.31E-07	4.30E-05	1.66E-07	7.09E-06	5.17E-07	1.16E-06	1.08E-06	2.21E-04	5.33E-05	2.76E-04
RECR	Project-Base	Barium	Adolescent	7.49E-05	4.44E-08	2.99E-03	2.90E-04	5.69E-05	1.92E-05	1.05E-04	1.66E-05	2.06E-05	1.90E-03	6.33E-08	1.16E-07	4.83E-07	7.75E-05	1.32E-04	3.28E-03	2.14E-03	5.55E-03
RECR	Project-Base	Beryllium	Adolescent	2.94E-07	1.74E-10	2.60E-05	2.52E-06	2.23E-07	6.61E-08	3.45E-07	6.50E-09	7.69E-08	3.55E-05	4.01E-09	3.22E-09	2.74E-08	5.77E-06	5.17E-07	2.86E-05	4.18E-05	7.09E-05
RECR	Project-Base	Chromium	Adolescent	2.14E-05	1.27E-08	2.52E-06	2.44E-07	1.62E-05	4.86E-06	2.54E-05	1.42E-06	5.61E-06	1.05E-06	1.10E-04	2.22E-05	1.59E-04	1.76E-04	3.76E-05	2.76E-06	5.06E-04	5.47E-04
RECR	Project-Base	Cobalt	Adolescent	2.53E-06	1.50E-09	1.47E-03	1.15E-04	1.92E-06	5.96E-07	3.31E-06	2.61E-07	6.72E-07	1.04E-03	1.61E-06	5.66E-05	2.03E-05	7.20E-05	4.45E-06	1.58E-03	1.19E-03	2.78E-03
RECR	Project-Base	Iron	Adolescent	2.75E-02	1.63E-05	1.47E-01	1.43E-02	2.09E-02	6.22E-03	3.26E-02	4.06E-04	7.21E-03	6.57E-01	4.63E-02	1.36E-01	9.86E-02	3.36E-01	4.84E-02	1.62E-01	1.32E+00	1.53E+00
RECR	Project-Base	Lead	Adolescent	2.29E-06	1.36E-09	0.00E+00	0.00E+00	1.04E-07	5.42E-07	2.88E-06	3.04E-07	6.10E-07	0.00E+00	6.06E-09	2.05E-06	3.03E-05	6.20E-05	2.39E-06	0.00E+00	9.86E-05	1.01E-04
RECR	Project-Base	Manganese	Adolescent	6.05E-04	3.59E-07	8.67E-02	8.40E-03	4.60E-04	5.43E-04	1.88E-03	4.47E-04	3.35E-04	7.78E-02	1.24E-03	4.10E-04	7.25E-03	1.14E-03	1.07E-03	9.51E-02	9.11E-02	1.87E-01
RECR	Project-Base	Mercury	Adolescent	6.03E-09	3.57E-12	0.00E+00	0.00E+00	4.58E-08	1.13E-08	4.93E-08	1.78E-08	5.90E-09	0.00E+00	1.13E-06	5.03E-07	2.67E-06	8.11E-07	5.18E-08	0.00E+00	5.20E-06	5.25E-06
RECR	Project-Base	Molybdenum	Adolescent	2.70E-06	1.60E-09	2.05E-03	1.99E-04	2.05E-06	2.08E-06	8.37E-06	2.39E-06	1.35E-06	5.80E-03	6.12E-05	2.85E-04	2.51E-04	3.69E-04	4.75E-06	2.25E-03	6.78E-03	9.04E-03
RECR	Project-Base	Selenium	Adolescent	2.62E-07	1.55E-10	4.98E-04	4.83E-05	1.99E-08	6.37E-08	3.42E-07	8.50E-08	7.06E-08	1.41E-03	6.79E-05	3.74E-03	2.26E-04	1.98E-03	2.82E-07	5.47E-04	7.43E-03	7.98E-03

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Closure-Base	Arsenic	Adolescent	8.79E-07	5.21E-10	1.01E-04	9.79E-06	2.00E-07	1.15E-07	9.92E-07	5.50E-08	2.31E-07	2.15E-05	1.66E-07	5.92E-06	5.16E-07	1.08E-06	1.08E-06	1.11E-04	3.06E-05	1.42E-04
RECR	Closure-Base	Barium	Adolescent	7.49E-05	4.44E-08	2.91E-03	2.82E-04	5.69E-05	1.92E-05	1.05E-04	1.66E-05	2.06E-05	1.84E-03	6.32E-08	6.95E-08	4.83E-07	7.00E-05	1.32E-04	3.19E-03	2.08E-03	5.40E-03
RECR	Closure-Base	Beryllium	Adolescent	2.94E-07	1.74E-10	7.16E-06	6.94E-07	2.23E-07	6.61E-08	3.45E-07	6.50E-09	7.69E-08	9.77E-06	4.01E-09	2.98E-09	2.74E-08	5.71E-06	5.17E-07	7.86E-06	1.60E-05	2.44E-05
RECR	Closure-Base	Chromium	Adolescent	2.14E-05	1.27E-08	0.00E+00	0.00E+00	1.62E-05	4.86E-06	2.54E-05	1.42E-06	5.61E-06	0.00E+00	1.10E-04	1.97E-05	1.59E-04	1.66E-04	3.76E-05	0.00E+00	4.92E-04	5.30E-04
RECR	Closure-Base	Cobalt	Adolescent	2.53E-06	1.50E-09	8.84E-04	6.93E-05	1.92E-06	5.96E-07	3.31E-06	2.61E-07	6.72E-07	6.23E-04	1.60E-06	4.38E-05	2.03E-05	6.62E-05	4.45E-06	9.53E-04	7.60E-04	1.72E-03
RECR	Closure-Base	Iron	Adolescent	2.75E-02	1.63E-05	1.13E-01	1.10E-02	2.09E-02	6.22E-03	3.26E-02	4.06E-04	7.21E-03	5.05E-01	4.63E-02	7.10E-02	9.86E-02	2.74E-01	4.84E-02	1.24E-01	1.04E+00	1.21E+00
RECR	Closure-Base	Lead	Adolescent	2.29E-06	1.36E-09	0.00E+00	0.00E+00	1.04E-07	5.42E-07	2.88E-06	3.04E-07	6.10E-07	0.00E+00	6.06E-09	2.05E-06	3.03E-05	6.20E-05	2.39E-06	0.00E+00	9.86E-05	1.01E-04
RECR	Closure-Base	Manganese	Adolescent	6.05E-04	3.59E-07	6.04E-02	5.85E-03	4.60E-04	5.43E-04	1.88E-03	4.47E-04	3.35E-04	5.42E-02	1.23E-03	1.54E-05	7.25E-03	2.20E-04	1.07E-03	6.63E-02	6.62E-02	1.33E-01
RECR	Closure-Base	Mercury	Adolescent	6.03E-09	3.57E-12	0.00E+00	0.00E+00	4.58E-08	1.13E-08	4.93E-08	1.78E-08	5.90E-09	0.00E+00	1.13E-06	5.03E-07	2.67E-06	8.11E-07	5.18E-08	0.00E+00	5.20E-06	5.25E-06
RECR	Closure-Base	Molybdenum	Adolescent	2.70E-06	1.60E-09	1.39E-03	1.35E-04	2.05E-06	2.08E-06	8.37E-06	2.39E-06	1.35E-06	3.94E-03	6.10E-05	1.47E-04	2.51E-04	2.02E-04	4.75E-06	1.53E-03	4.62E-03	6.15E-03
RECR	Closure-Base	Selenium	Adolescent	2.62E-07	1.55E-10	2.57E-04	2.49E-05	1.99E-08	6.37E-08	3.42E-07	8.50E-08	7.06E-08	7.30E-04	6.76E-05	2.79E-03	2.25E-04	1.50E-03	2.82E-07	2.82E-04	5.32E-03	5.60E-03
RECR	Post Closure-Base	Arsenic	Adolescent	8.79E-07	5.21E-10	0.00E+00	0.00E+00	2.00E-07	1.15E-07	9.92E-07	5.50E-08	2.31E-07	0.00E+00	1.66E-07	1.03E-05	5.17E-07	1.37E-06	1.08E-06	0.00E+00	1.37E-05	1.48E-05
RECR	Post Closure-Base	Barium	Adolescent	7.49E-05	4.44E-08	2.70E-03	2.62E-04	5.69E-05	1.92E-05	1.05E-04	1.66E-05	2.06E-05	1.71E-03	6.33E-08	1.12E-07	4.83E-07	7.68E-05	1.32E-04	2.96E-03	1.95E-03	5.05E-03
RECR	Post Closure-Base	Beryllium	Adolescent	2.94E-07	1.74E-10	0.00E+00	0.00E+00	2.23E-07	6.61E-08	3.45E-07	6.50E-09	7.69E-08	0.00E+00	4.01E-09	2.72E-09	2.74E-08	5.65E-06	5.17E-07	0.00E+00	6.18E-06	6.69E-06
RECR	Post Closure-Base	Chromium	Adolescent	2.14E-05	1.27E-08	0.00E+00	0.00E+00	1.62E-05	4.86E-06	2.54E-05	1.42E-06	5.61E-06	0.00E+00	1.10E-04	1.03E-05	1.59E-04	1.28E-04	3.76E-05	0.00E+00	4.45E-04	4.82E-04
RECR	Post Closure-Base	Cobalt	Adolescent	2.53E-06	1.50E-09	0.00E+00	0.00E+00	1.92E-06	5.96E-07	3.31E-06	2.61E-07	6.72E-07	0.00E+00	1.60E-06	3.34E-05	2.02E-05	6.15E-05	4.45E-06	0.00E+00	1.22E-04	1.26E-04
RECR	Post Closure-Base	Iron	Adolescent	2.75E-02	1.63E-05	7.71E-02	7.47E-03	2.09E-02	6.22E-03	3.26E-02	4.06E-04	7.21E-03	3.44E-01	4.63E-02	9.46E-02	9.86E-02	2.96E-01	4.84E-02	8.46E-02	9.26E-01	1.06E+00
RECR	Post Closure-Base	Lead	Adolescent	2.29E-06	1.36E-09	0.00E+00	0.00E+00	1.04E-07	5.42E-07	2.88E-06	3.04E-07	6.10E-07	0.00E+00	6.06E-09	2.05E-06	3.03E-05	6.20E-05	2.39E-06	0.00E+00	9.86E-05	1.01E-04
RECR	Post Closure-Base	Manganese	Adolescent	6.05E-04	3.59E-07	5.38E-02	5.21E-03	4.60E-04	5.43E-04	1.88E-03	4.47E-04	3.35E-04	4.83E-02	1.23E-03	2.60E-04	7.25E-03	7.88E-04	1.07E-03	5.90E-02	6.10E-02	1.21E-01
RECR	Post Closure-Base	Mercury	Adolescent	6.03E-09	3.57E-12	0.00E+00	0.00E+00	4.58E-08	1.13E-08	4.93E-08	1.78E-08	5.90E-09	0.00E+00	1.13E-06	5.03E-07	2.67E-06	8.11E-07	5.18E-08	0.00E+00	5.20E-06	5.25E-06
RECR	Post Closure-Base	Molybdenum	Adolescent	2.70E-06	1.60E-09	8.15E-04	7.90E-05	2.05E-06	2.08E-06	8.37E-06	2.39E-06	1.35E-06	2.30E-03	6.12E-05	3.28E-04	2.51E-04	4.22E-04	4.75E-06	8.94E-04	3.38E-03	4.28E-03
RECR	Post Closure-Base	Selenium	Adolescent	2.62E-07	1.55E-10	0.00E+00	0.00E+00	1.99E-08	6.37E-08	3.42E-07	8.50E-08	7.06E-08	0.00E+00	6.93E-05	9.48E-03	2.31E-04	4.88E-03	2.82E-07	0.00E+00	1.47E-02	1.47E-02
RECR	Project-Base	Arsenic	Adult	8.79E-07	5.54E-10	3.02E-04	1.84E-05	2.26E-07	1.10E-07	1.13E-06	4.55E-08	2.64E-07	4.30E-05	1.73E-07	7.39E-06	5.99E-07	1.17E-06	1.11E-06	3.21E-04	5.39E-05	3.76E-04
RECR	Project-Base	Barium	Adult	7.49E-05	4.72E-08	4.48E-03	2.73E-04	6.41E-05	1.85E-05	1.20E-04	1.37E-05	2.35E-05	1.90E-03	6.59E-08	1.21E-07	5.60E-07	7.86E-05	1.39E-04	4.76E-03	2.15E-03	7.05E-03
RECR	Project-Base	Beryllium	Adult	2.94E-07	1.85E-10	3.91E-05	2.38E-06	2.52E-07	6.35E-08	3.94E-07	5.39E-09	8.77E-08	3.55E-05	4.18E-09	3.36E-09	3.18E-08	5.85E-06	5.46E-07	4.14E-05	4.20E-05	8.39E-05
RECR	Project-Base	Chromium	Adult	2.14E-05	1.35E-08	3.77E-06	2.30E-07	1.83E-05	4.67E-06	2.91E-05	1.17E-06	6.40E-06	1.05E-06	1.15E-04	2.31E-05	1.85E-04	1.79E-04	3.97E-05	4.00E-06	5.44E-04	5.87E-04
RECR	Project-Base	Cobalt	Adult	2.53E-06	1.59E-09	2.20E-03	1.03E-04	2.16E-06	5.73E-07	3.77E-06	2.16E-07	7.68E-07	1.04E-03	1.68E-06	5.90E-05	2.36E-05	7.30E-05	4.69E-06	2.31E-03	1.20E-03	3.51E-03
RECR	Project-Base	Iron	Adult	2.75E-02	1.74E-05	2.21E-01	1.35E-02	2.36E-02	5.98E-03	3.72E-02	3.36E-04	8.23E-03	6.57E-01	4.82E-02	1.41E-01	1.14E-01	3.40E-01	5.11E-02	2.35E-01	1.35E+00	1.64E+00
RECR	Project-Base	Lead	Adult	2.29E-06	1.44E-09	0.00E+00	0.00E+00	1.17E-07	5.20E-07	3.29E-06	2.51E-07	6.96E-07	0.00E+00	6.32E-09	2.14E-06	3.51E-05	6.28E-05	2.41E-06	0.00E+00	1.05E-04	1.07E-04
RECR	Project-Base	Manganese	Adult	6.05E-04	3.82E-07	1.30E-01	7.91E-03	5.18E-04	5.22E-04	2.14E-03	3.70E-04	3.83E-04	7.78E-02	1.29E-03	4.27E-04	8.42E-03	1.15E-03	1.12E-03	1.38E-01	9.26E-02	2.32E-01
RECR	Project-Base	Mercury	Adult	6.03E-09	3.80E-12	0.00E+00	0.00E+00	5.16E-08	1.09E-08	5.62E-08	1.47E-08	6.73E-09	0.00E+00	1.18E-06	5.24E-07	3.10E-06	8.22E-07	5.76E-08	0.00E+00	5.71E-06	5.77E-06
RECR	Project-Base	Molybdenum	Adult	2.70E-06	1.70E-09	3.08E-03	1.87E-04	2.31E-06	2.00E-06	9.55E-06	1.98E-06	1.54E-06	5.80E-03	6.37E-05	2.97E-04	2.91E-04	3.75E-04	5.01E-06	3.27E-03	6.85E-03	1.01E-02
RECR	Project-Base	Selenium	Adult	2.62E-07	1.65E-10	7.48E-04	4.55E-05	2.24E-08	6.12E-08	3.90E-07	7.04E-08	8.05E-08	1.41E-03	7.07E-05	3.90E-03	2.62E-04	2.01E-03	2.84E-07	7.93E-04	7.66E-03	8.45E-03
RECR	Closure-Base	Arsenic	Adult	8.79E-07	5.54E-10	1.51E-04	9.21E-06	2.26E-07	1.10E-07	1.13E-06	4.55E-08	2.64E-07	2.15E-05	1.73E-07	6.17E-06	5.99E-07	1.09E-06	1.11E-06	1.61E-04	3.11E-05	1.93E-04
RECR	Closure-Base	Barium	Adult	7.49E-05	4.72E-08	4.36E-03	2.65E-04	6.41E-05	1.85E-05	1.20E-04	1.37E-05	2.35E-05	1.84E-03	6.59E-08	7.24E-08	5.60E-07	7.10E-05	1.39E-04	4.62E-03	2.09E-03	6.86E-03
RECR	Closure-Base	Beryllium	Adult	2.94E-07	1.85E-10	1.07E-05	6.54E-07	2.52E-07	6.35E-08	3.94E-07	5.39E-09	8.77E-08	9.77E-06	4.18E-09	3.10E-09	3.18E-08	5.79E-06	5.46E-07	1.14E-05	1.61E-05	2.81E-05
RECR	Closure-Base	Chromium	Adult	2.14E-05	1.35E-08	0.00E+00	0.00E+00	1.83E-05	4.67E-06	2.91E-05	1.17E-06	6.40E-06	0.00E+00	1.15E-04	2.05E-05	1.85E-04	1.68E-04	3.97E-05	0.00E+00	5.29E-04	5.69E-04
RECR	Closure-Base	Cobalt	Adult	2.53E-06	1.59E-09	1.33E-03	6.20E-05	2.16E-06	5.73E-07	3.77E-06	2.16E-07	7.68E-07	6.23E-04	1.67E-06	4.57E-05	2.35E-05	6.71E-05	4.69E-06	1.39E-03	7.67E-04	2.16E-03
RECR	Closure-Base	Iron	Adult	2.75E-02	1.74E-05	1.70E-01	1.03E-02	2.36E-02	5.98E-03	3.72E-02	3.36E-04	8.23E-03	5.05E-01	4.82E-02	7.40E-02	1.14E-01	2.78E-01	5.11E-02	1.80E-01	1.07E+00	1.30E+00
RECR	Closure-Base	Lead	Adult	2.29E-06	1.44E-09	0.00E+00	0.00E+00	1.17E-07	5.20E-07	3.29E-06	2.51E-07	6.96E-07	0.00E+00	6.32E-09	2.14E-06	3.51E-05	6.28E-05	2.41E-06	0.00E+00	1.05E-04	1.07E-04
RECR	Closure-Base	Manganese	Adult	6.05E-04	3.82E-07	9.06E-02	5.51E-03	5.18E-04	5.22E-04	2.14E-03	3.70E-04	3.83E-04	5.42E-02	1.28E-03	1.60E-05	8.41E-03	2.23E-04	1.12E-03	9.61E-02	6.76E-02	1.65E-01
RECR	Closure-Base	Mercury	Adult	6.03E-09	3.80E-12	0.00E+00	0.00E+00	5.16E-08	1.09E-08	5.62E-08	1.47E-08	6.73E-09	0.00E+00	1.18E-06	5.24E-07	3.10E-06	8.22E-07	5.76E-08	0.00E+00	5.71E-06	5.77E-06
RECR	Closure-Base	Molybdenum	Adult	2.70E-06	1.70E-09	2.09E-03	1.27E-04	2.31E-06	2.00E-06	9.55E-06	1.98E-06	1.54E-06	3.94E-03	6.36E-05	1.53E-04	2.91E-04	2.05E-04	5.01E-06	2.22E-03	4.67E-03	6.89E-03
RECR	Closure-Base	Selenium	Adult	2.62E-07	1.65E-10	3.86E-04	2.35E-05	2.24E-08	6.12E-08	3.90E-07	7.04E-08	8.05E-08	7.30E-04	7.05E-05	2.91E-03	2.61E-04	1.52E-03	2.84E-07	4.09E-04	5.50E-03	5.91E-03

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RECR	Post Closure-Base	Arsenic	Adult	8.79E-07	5.54E-10	0.00E+00	0.00E+00	2.26E-07	1.10E-07	1.13E-06	4.55E-08	2.64E-07	0.00E+00	1.73E-07	1.07E-05	6.00E-07	1.39E-06	1.11E-06	0.00E+00	1.44E-05	1.55E-05
RECR	Post Closure-Base	Barium	Adult	7.49E-05	4.72E-08	4.05E-03	2.46E-04	6.41E-05	1.85E-05	1.20E-04	1.37E-05	2.35E-05	1.71E-03	6.59E-08	1.17E-07	5.60E-07	7.79E-05	1.39E-04	4.30E-03	1.97E-03	6.40E-03
RECR	Post Closure-Base	Beryllium	Adult	2.94E-07	1.85E-10	0.00E+00	0.00E+00	2.52E-07	6.35E-08	3.94E-07	5.39E-09	8.77E-08	0.00E+00	4.18E-09	2.84E-09	3.18E-08	5.73E-06	5.46E-07	0.00E+00	6.31E-06	6.86E-06
RECR	Post Closure-Base	Chromium	Adult	2.14E-05	1.35E-08	0.00E+00	0.00E+00	1.83E-05	4.67E-06	2.91E-05	1.17E-06	6.40E-06	0.00E+00	1.15E-04	1.08E-05	1.85E-04	1.29E-04	3.97E-05	0.00E+00	4.81E-04	5.21E-04
RECR	Post Closure-Base	Cobalt	Adult	2.53E-06	1.59E-09	0.00E+00	0.00E+00	2.16E-06	5.73E-07	3.77E-06	2.16E-07	7.68E-07	0.00E+00	1.66E-06	3.48E-05	2.34E-05	6.24E-05	4.69E-06	0.00E+00	1.28E-04	1.32E-04
RECR	Post Closure-Base	Iron	Adult	2.75E-02	1.74E-05	1.16E-01	7.04E-03	2.36E-02	5.98E-03	3.72E-02	3.36E-04	8.23E-03	3.44E-01	4.82E-02	9.85E-02	1.14E-01	3.00E-01	5.11E-02	1.23E-01	9.57E-01	1.13E+00
RECR	Post Closure-Base	Lead	Adult	2.29E-06	1.44E-09	0.00E+00	0.00E+00	1.17E-07	5.20E-07	3.29E-06	2.51E-07	6.96E-07	0.00E+00	6.32E-09	2.14E-06	3.51E-05	6.28E-05	2.41E-06	0.00E+00	1.05E-04	1.07E-04
RECR	Post Closure-Base	Manganese	Adult	6.05E-04	3.82E-07	8.07E-02	4.91E-03	5.18E-04	5.22E-04	2.14E-03	3.70E-04	3.83E-04	4.83E-02	1.29E-03	2.71E-04	8.41E-03	7.99E-04	1.12E-03	8.56E-02	6.25E-02	1.49E-01
RECR	Post Closure-Base	Mercury	Adult	6.03E-09	3.80E-12	0.00E+00	0.00E+00	5.16E-08	1.09E-08	5.62E-08	1.47E-08	6.73E-09	0.00E+00	1.18E-06	5.24E-07	3.10E-06	8.22E-07	5.76E-08	0.00E+00	5.71E-06	5.77E-06
RECR	Post Closure-Base	Molybdenum	Adult	2.70E-06	1.70E-09	1.22E-03	7.44E-05	2.31E-06	2.00E-06	9.55E-06	1.98E-06	1.54E-06	2.30E-03	6.38E-05	3.42E-04	2.92E-04	4.28E-04	5.01E-06	1.30E-03	3.45E-03	4.75E-03
RECR	Post Closure-Base	Selenium	Adult	2.62E-07	1.65E-10	0.00E+00	0.00E+00	2.24E-08	6.12E-08	3.90E-07	7.04E-08	8.05E-08	0.00E+00	7.23E-05	9.88E-03	2.68E-04	4.95E-03	2.84E-07	0.00E+00	1.52E-02	1.52E-02
URBN	Project-Base	Arsenic	Infant	1.52E-07	1.27E-11	0.00E+00	0.00E+00	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-07	0.00E+00	0.00E+00	1.63E-07
URBN	Project-Base	Barium	Infant	1.30E-05	1.08E-09	0.00E+00	0.00E+00	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	1.61E-05
URBN	Project-Base	Beryllium	Infant	5.09E-08	4.25E-12	0.00E+00	0.00E+00	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-08	0.00E+00	0.00E+00	6.33E-08
URBN	Project-Base	Chromium	Infant	3.70E-06	3.09E-10	0.00E+00	0.00E+00	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	4.60E-06
URBN	Project-Base	Cobalt	Infant	4.37E-07	3.65E-11	0.00E+00	0.00E+00	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-07	0.00E+00	0.00E+00	5.44E-07
URBN	Project-Base	Iron	Infant	4.76E-03	3.98E-07	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-03	0.00E+00	0.00E+00	5.93E-03
URBN	Project-Base	Lead	Infant	3.96E-07	3.31E-11	0.00E+00	0.00E+00	5.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07	0.00E+00	0.00E+00	4.01E-07
URBN	Project-Base	Manganese	Infant	1.05E-04	8.76E-09	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	1.30E-04
URBN	Project-Base	Mercury	Infant	1.04E-09	8.72E-14	0.00E+00	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-09	0.00E+00	0.00E+00	3.60E-09
URBN	Project-Base	Molybdenum	Infant	4.67E-07	3.90E-11	0.00E+00	0.00E+00	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-07	0.00E+00	0.00E+00	5.81E-07
URBN	Project-Base	Selenium	Infant	4.53E-08	3.79E-12	0.00E+00	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-08	0.00E+00	0.00E+00	4.64E-08
URBN	Closure-Base	Arsenic	Infant	1.52E-07	1.27E-11	0.00E+00	0.00E+00	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-07	0.00E+00	0.00E+00	1.63E-07
URBN	Closure-Base	Barium	Infant	1.30E-05	1.08E-09	0.00E+00	0.00E+00	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	1.61E-05
URBN	Closure-Base	Beryllium	Infant	5.09E-08	4.25E-12	0.00E+00	0.00E+00	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-08	0.00E+00	0.00E+00	6.33E-08
URBN	Closure-Base	Chromium	Infant	3.70E-06	3.09E-10	0.00E+00	0.00E+00	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	4.60E-06
URBN	Closure-Base	Cobalt	Infant	4.37E-07	3.65E-11	0.00E+00	0.00E+00	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-07	0.00E+00	0.00E+00	5.44E-07
URBN	Closure-Base	Iron	Infant	4.76E-03	3.98E-07	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-03	0.00E+00	0.00E+00	5.93E-03
URBN	Closure-Base	Lead	Infant	3.96E-07	3.31E-11	0.00E+00	0.00E+00	5.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07	0.00E+00	0.00E+00	4.01E-07
URBN	Closure-Base	Manganese	Infant	1.05E-04	8.76E-09	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	1.30E-04
URBN	Closure-Base	Mercury	Infant	1.04E-09	8.72E-14	0.00E+00	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-09	0.00E+00	0.00E+00	3.60E-09
URBN	Closure-Base	Molybdenum	Infant	4.67E-07	3.90E-11	0.00E+00	0.00E+00	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-07	0.00E+00	0.00E+00	5.81E-07
URBN	Closure-Base	Selenium	Infant	4.53E-08	3.79E-12	0.00E+00	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-08	0.00E+00	0.00E+00	4.64E-08
URBN	Post Closure-Base	Arsenic	Infant	1.52E-07	1.27E-11	0.00E+00	0.00E+00	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-07	0.00E+00	0.00E+00	1.63E-07
URBN	Post Closure-Base	Barium	Infant	1.30E-05	1.08E-09	0.00E+00	0.00E+00	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	1.61E-05
URBN	Post Closure-Base	Beryllium	Infant	5.09E-08	4.25E-12	0.00E+00	0.00E+00	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-08	0.00E+00	0.00E+00	6.33E-08
URBN	Post Closure-Base	Chromium	Infant	3.70E-06	3.09E-10	0.00E+00	0.00E+00	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	4.60E-06
URBN	Post Closure-Base	Cobalt	Infant	4.37E-07	3.65E-11	0.00E+00	0.00E+00	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-07	0.00E+00	0.00E+00	5.44E-07
URBN	Post Closure-Base	Iron	Infant	4.76E-03	3.98E-07	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-03	0.00E+00	0.00E+00	5.93E-03
URBN	Post Closure-Base	Lead	Infant	3.96E-07	3.31E-11	0.00E+00	0.00E+00	5.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07	0.00E+00	0.00E+00	4.01E-07
URBN	Post Closure-Base	Manganese	Infant	1.05E-04	8.76E-09	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	1.30E-04
URBN	Post Closure-Base	Mercury	Infant	1.04E-09	8.72E-14	0.00E+00	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-09	0.00E+00	0.00E+00	3.60E-09
URBN	Post Closure-Base	Molybdenum	Infant	4.67E-07	3.90E-11	0.00E+00	0.00E+00	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-07	0.00E+00	0.00E+00	5.81E-07
URBN	Post Closure-Base	Selenium	Infant	4.53E-08	3.79E-12	0.00E+00	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-08	0.00E+00	0.00E+00	4.64E-08

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Project-Base	Arsenic	Toddler	6.08E-07	4.80E-11	0.00E+00	0.00E+00	1.57E-08	0.00E+00	9.59E-08	4.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-07	0.00E+00	1.00E-07	7.24E-07
URBN	Project-Base	Barium	Toddler	5.18E-05	4.09E-09	0.00E+00	0.00E+00	4.46E-06	0.00E+00	1.02E-05	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	1.15E-05	6.77E-05
URBN	Project-Base	Beryllium	Toddler	2.03E-07	1.60E-11	0.00E+00	0.00E+00	1.75E-08	0.00E+00	3.33E-08	5.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-07	0.00E+00	3.38E-08	2.55E-07
URBN	Project-Base	Chromium	Toddler	1.48E-05	1.17E-09	0.00E+00	0.00E+00	1.27E-06	0.00E+00	2.46E-06	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	2.57E-06	1.86E-05
URBN	Project-Base	Cobalt	Toddler	1.75E-06	1.38E-10	0.00E+00	0.00E+00	1.50E-07	0.00E+00	3.19E-07	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-06	0.00E+00	3.40E-07	2.24E-06
URBN	Project-Base	Iron	Toddler	1.90E-02	1.50E-06	0.00E+00	0.00E+00	1.64E-03	0.00E+00	3.15E-03	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-02	0.00E+00	3.18E-03	2.39E-02
URBN	Project-Base	Lead	Toddler	1.58E-06	1.25E-10	0.00E+00	0.00E+00	8.16E-09	0.00E+00	2.78E-07	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-06	0.00E+00	3.02E-07	1.89E-06
URBN	Project-Base	Manganese	Toddler	4.19E-04	3.30E-08	0.00E+00	0.00E+00	3.60E-05	0.00E+00	1.81E-04	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	2.17E-04	6.72E-04
URBN	Project-Base	Mercury	Toddler	4.17E-09	3.29E-13	0.00E+00	0.00E+00	3.59E-09	0.00E+00	4.76E-09	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-09	0.00E+00	6.18E-09	1.39E-08
URBN	Project-Base	Molybdenum	Toddler	1.87E-06	1.47E-10	0.00E+00	0.00E+00	1.61E-07	0.00E+00	8.08E-07	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-06	0.00E+00	1.00E-06	3.03E-06
URBN	Project-Base	Selenium	Toddler	1.81E-07	1.43E-11	0.00E+00	0.00E+00	1.56E-09	0.00E+00	3.30E-08	6.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-07	0.00E+00	3.98E-08	2.23E-07
URBN	Closure-Base	Arsenic	Toddler	6.08E-07	4.80E-11	0.00E+00	0.00E+00	1.57E-08	0.00E+00	9.59E-08	4.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-07	0.00E+00	1.00E-07	7.24E-07
URBN	Closure-Base	Barium	Toddler	5.18E-05	4.09E-09	0.00E+00	0.00E+00	4.46E-06	0.00E+00	1.02E-05	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	1.15E-05	6.77E-05
URBN	Closure-Base	Beryllium	Toddler	2.03E-07	1.60E-11	0.00E+00	0.00E+00	1.75E-08	0.00E+00	3.33E-08	5.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-07	0.00E+00	3.38E-08	2.55E-07
URBN	Closure-Base	Chromium	Toddler	1.48E-05	1.17E-09	0.00E+00	0.00E+00	1.27E-06	0.00E+00	2.46E-06	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	2.57E-06	1.86E-05
URBN	Closure-Base	Cobalt	Toddler	1.75E-06	1.38E-10	0.00E+00	0.00E+00	1.50E-07	0.00E+00	3.19E-07	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-06	0.00E+00	3.40E-07	2.24E-06
URBN	Closure-Base	Iron	Toddler	1.90E-02	1.50E-06	0.00E+00	0.00E+00	1.64E-03	0.00E+00	3.15E-03	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-02	0.00E+00	3.18E-03	2.39E-02
URBN	Closure-Base	Lead	Toddler	1.58E-06	1.25E-10	0.00E+00	0.00E+00	8.16E-09	0.00E+00	2.78E-07	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-06	0.00E+00	3.02E-07	1.89E-06
URBN	Closure-Base	Manganese	Toddler	4.19E-04	3.30E-08	0.00E+00	0.00E+00	3.60E-05	0.00E+00	1.81E-04	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	2.17E-04	6.72E-04
URBN	Closure-Base	Mercury	Toddler	4.17E-09	3.29E-13	0.00E+00	0.00E+00	3.59E-09	0.00E+00	4.76E-09	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-09	0.00E+00	6.18E-09	1.39E-08
URBN	Closure-Base	Molybdenum	Toddler	1.87E-06	1.47E-10	0.00E+00	0.00E+00	1.61E-07	0.00E+00	8.08E-07	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-06	0.00E+00	1.00E-06	3.03E-06
URBN	Closure-Base	Selenium	Toddler	1.81E-07	1.43E-11	0.00E+00	0.00E+00	1.56E-09	0.00E+00	3.30E-08	6.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-07	0.00E+00	3.98E-08	2.23E-07
URBN	Post Closure-Base	Arsenic	Toddler	6.08E-07	4.80E-11	0.00E+00	0.00E+00	1.57E-08	0.00E+00	9.59E-08	4.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-07	0.00E+00	1.00E-07	7.24E-07
URBN	Post Closure-Base	Barium	Toddler	5.18E-05	4.09E-09	0.00E+00	0.00E+00	4.46E-06	0.00E+00	1.02E-05	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	1.15E-05	6.77E-05
URBN	Post Closure-Base	Beryllium	Toddler	2.03E-07	1.60E-11	0.00E+00	0.00E+00	1.75E-08	0.00E+00	3.33E-08	5.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-07	0.00E+00	3.38E-08	2.55E-07
URBN	Post Closure-Base	Chromium	Toddler	1.48E-05	1.17E-09	0.00E+00	0.00E+00	1.27E-06	0.00E+00	2.46E-06	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	2.57E-06	1.86E-05
URBN	Post Closure-Base	Cobalt	Toddler	1.75E-06	1.38E-10	0.00E+00	0.00E+00	1.50E-07	0.00E+00	3.19E-07	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-06	0.00E+00	3.40E-07	2.24E-06
URBN	Post Closure-Base	Iron	Toddler	1.90E-02	1.50E-06	0.00E+00	0.00E+00	1.64E-03	0.00E+00	3.15E-03	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-02	0.00E+00	3.18E-03	2.39E-02
URBN	Post Closure-Base	Lead	Toddler	1.58E-06	1.25E-10	0.00E+00	0.00E+00	8.16E-09	0.00E+00	2.78E-07	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-06	0.00E+00	3.02E-07	1.89E-06
URBN	Post Closure-Base	Manganese	Toddler	4.19E-04	3.30E-08	0.00E+00	0.00E+00	3.60E-05	0.00E+00	1.81E-04	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	2.17E-04	6.72E-04
URBN	Post Closure-Base	Mercury	Toddler	4.17E-09	3.29E-13	0.00E+00	0.00E+00	3.59E-09	0.00E+00	4.76E-09	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-09	0.00E+00	6.18E-09	1.39E-08
URBN	Post Closure-Base	Molybdenum	Toddler	1.87E-06	1.47E-10	0.00E+00	0.00E+00	1.61E-07	0.00E+00	8.08E-07	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-06	0.00E+00	1.00E-06	3.03E-06
URBN	Post Closure-Base	Selenium	Toddler	1.81E-07	1.43E-11	0.00E+00	0.00E+00	1.56E-09	0.00E+00	3.30E-08	6.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-07	0.00E+00	3.98E-08	2.23E-07

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Project-Base	Arsenic	Child	1.52E-07	8.38E-11	0.00E+00	0.00E+00	2.38E-08	0.00E+00	1.40E-07	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-07	0.00E+00	1.47E-07	3.23E-07
URBN	Project-Base	Barium	Child	1.30E-05	7.14E-09	0.00E+00	0.00E+00	6.77E-06	0.00E+00	1.49E-05	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	1.69E-05	3.66E-05
URBN	Project-Base	Beryllium	Child	5.09E-08	2.80E-11	0.00E+00	0.00E+00	2.66E-08	0.00E+00	4.87E-08	7.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-08	0.00E+00	4.95E-08	1.27E-07
URBN	Project-Base	Chromium	Child	3.70E-06	2.04E-09	0.00E+00	0.00E+00	1.93E-06	0.00E+00	3.60E-06	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	3.77E-06	9.40E-06
URBN	Project-Base	Cobalt	Child	4.37E-07	2.41E-10	0.00E+00	0.00E+00	2.28E-07	0.00E+00	4.67E-07	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-07	0.00E+00	4.99E-07	1.16E-06
URBN	Project-Base	Iron	Child	4.76E-03	2.62E-06	0.00E+00	0.00E+00	2.49E-03	0.00E+00	4.61E-03	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-03	0.00E+00	4.65E-03	1.19E-02
URBN	Project-Base	Lead	Child	3.96E-07	2.18E-10	0.00E+00	0.00E+00	1.24E-08	0.00E+00	4.07E-07	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-07	0.00E+00	4.44E-07	8.52E-07
URBN	Project-Base	Manganese	Child	1.05E-04	5.77E-08	0.00E+00	0.00E+00	5.47E-05	0.00E+00	2.65E-04	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	3.20E-04	4.80E-04
URBN	Project-Base	Mercury	Child	1.04E-09	5.75E-13	0.00E+00	0.00E+00	5.45E-09	0.00E+00	6.96E-09	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-09	0.00E+00	9.14E-09	1.56E-08
URBN	Project-Base	Molybdenum	Child	4.67E-07	2.57E-10	0.00E+00	0.00E+00	2.44E-07	0.00E+00	1.18E-06	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-07	0.00E+00	1.48E-06	2.19E-06
URBN	Project-Base	Selenium	Child	4.53E-08	2.50E-11	0.00E+00	0.00E+00	2.37E-09	0.00E+00	4.83E-08	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-08	0.00E+00	5.87E-08	1.06E-07
URBN	Closure-Base	Arsenic	Child	1.52E-07	8.38E-11	0.00E+00	0.00E+00	2.38E-08	0.00E+00	1.40E-07	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-07	0.00E+00	1.47E-07	3.23E-07
URBN	Closure-Base	Barium	Child	1.30E-05	7.14E-09	0.00E+00	0.00E+00	6.77E-06	0.00E+00	1.49E-05	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	1.69E-05	3.66E-05
URBN	Closure-Base	Beryllium	Child	5.09E-08	2.80E-11	0.00E+00	0.00E+00	2.66E-08	0.00E+00	4.87E-08	7.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-08	0.00E+00	4.95E-08	1.27E-07
URBN	Closure-Base	Chromium	Child	3.70E-06	2.04E-09	0.00E+00	0.00E+00	1.93E-06	0.00E+00	3.60E-06	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	3.77E-06	9.40E-06
URBN	Closure-Base	Cobalt	Child	4.37E-07	2.41E-10	0.00E+00	0.00E+00	2.28E-07	0.00E+00	4.67E-07	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-07	0.00E+00	4.99E-07	1.16E-06
URBN	Closure-Base	Iron	Child	4.76E-03	2.62E-06	0.00E+00	0.00E+00	2.49E-03	0.00E+00	4.61E-03	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-03	0.00E+00	4.65E-03	1.19E-02
URBN	Closure-Base	Lead	Child	3.96E-07	2.18E-10	0.00E+00	0.00E+00	1.24E-08	0.00E+00	4.07E-07	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-07	0.00E+00	4.44E-07	8.52E-07
URBN	Closure-Base	Manganese	Child	1.05E-04	5.77E-08	0.00E+00	0.00E+00	5.47E-05	0.00E+00	2.65E-04	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	3.20E-04	4.80E-04
URBN	Closure-Base	Mercury	Child	1.04E-09	5.75E-13	0.00E+00	0.00E+00	5.45E-09	0.00E+00	6.96E-09	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-09	0.00E+00	9.14E-09	1.56E-08
URBN	Closure-Base	Molybdenum	Child	4.67E-07	2.57E-10	0.00E+00	0.00E+00	2.44E-07	0.00E+00	1.18E-06	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-07	0.00E+00	1.48E-06	2.19E-06
URBN	Closure-Base	Selenium	Child	4.53E-08	2.50E-11	0.00E+00	0.00E+00	2.37E-09	0.00E+00	4.83E-08	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-08	0.00E+00	5.87E-08	1.06E-07
URBN	Post Closure-Base	Arsenic	Child	1.52E-07	8.38E-11	0.00E+00	0.00E+00	2.38E-08	0.00E+00	1.40E-07	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-07	0.00E+00	1.47E-07	3.23E-07
URBN	Post Closure-Base	Barium	Child	1.30E-05	7.14E-09	0.00E+00	0.00E+00	6.77E-06	0.00E+00	1.49E-05	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	1.69E-05	3.66E-05
URBN	Post Closure-Base	Beryllium	Child	5.09E-08	2.80E-11	0.00E+00	0.00E+00	2.66E-08	0.00E+00	4.87E-08	7.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-08	0.00E+00	4.95E-08	1.27E-07
URBN	Post Closure-Base	Chromium	Child	3.70E-06	2.04E-09	0.00E+00	0.00E+00	1.93E-06	0.00E+00	3.60E-06	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	3.77E-06	9.40E-06
URBN	Post Closure-Base	Cobalt	Child	4.37E-07	2.41E-10	0.00E+00	0.00E+00	2.28E-07	0.00E+00	4.67E-07	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-07	0.00E+00	4.99E-07	1.16E-06
URBN	Post Closure-Base	Iron	Child	4.76E-03	2.62E-06	0.00E+00	0.00E+00	2.49E-03	0.00E+00	4.61E-03	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-03	0.00E+00	4.65E-03	1.19E-02
URBN	Post Closure-Base	Lead	Child	3.96E-07	2.18E-10	0.00E+00	0.00E+00	1.24E-08	0.00E+00	4.07E-07	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-07	0.00E+00	4.44E-07	8.52E-07
URBN	Post Closure-Base	Manganese	Child	1.05E-04	5.77E-08	0.00E+00	0.00E+00	5.47E-05	0.00E+00	2.65E-04	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	3.20E-04	4.80E-04
URBN	Post Closure-Base	Mercury	Child	1.04E-09	5.75E-13	0.00E+00	0.00E+00	5.45E-09	0.00E+00	6.96E-09	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-09	0.00E+00	9.14E-09	1.56E-08
URBN	Post Closure-Base	Molybdenum	Child	4.67E-07	2.57E-10	0.00E+00	0.00E+00	2.44E-07	0.00E+00	1.18E-06	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-07	0.00E+00	1.48E-06	2.19E-06
URBN	Post Closure-Base	Selenium	Child	4.53E-08	2.50E-11	0.00E+00	0.00E+00	2.37E-09	0.00E+00	4.83E-08	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-08	0.00E+00	5.87E-08	1.06E-07

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Project-Base	Arsenic	Adolescent	1.52E-07	9.02E-11	0.00E+00	0.00E+00	3.47E-08	0.00E+00	1.72E-07	9.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-07	0.00E+00	1.81E-07	3.68E-07
URBN	Project-Base	Barium	Adolescent	1.30E-05	7.68E-09	0.00E+00	0.00E+00	9.84E-06	0.00E+00	1.82E-05	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	2.11E-05	4.39E-05
URBN	Project-Base	Beryllium	Adolescent	5.09E-08	3.01E-11	0.00E+00	0.00E+00	3.86E-08	0.00E+00	5.97E-08	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-08	0.00E+00	6.08E-08	1.50E-07
URBN	Project-Base	Chromium	Adolescent	3.70E-06	2.19E-09	0.00E+00	0.00E+00	2.81E-06	0.00E+00	4.40E-06	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06	0.00E+00	4.65E-06	1.12E-05
URBN	Project-Base	Cobalt	Adolescent	4.37E-07	2.59E-10	0.00E+00	0.00E+00	3.32E-07	0.00E+00	5.72E-07	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-07	0.00E+00	6.17E-07	1.39E-06
URBN	Project-Base	Iron	Adolescent	4.76E-03	2.82E-06	0.00E+00	0.00E+00	3.62E-03	0.00E+00	5.64E-03	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03	0.00E+00	5.71E-03	1.41E-02
URBN	Project-Base	Lead	Adolescent	3.96E-07	2.35E-10	0.00E+00	0.00E+00	1.80E-08	0.00E+00	4.98E-07	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-07	0.00E+00	5.51E-07	9.64E-07
URBN	Project-Base	Manganese	Adolescent	1.05E-04	6.21E-08	0.00E+00	0.00E+00	7.96E-05	0.00E+00	3.25E-04	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	4.02E-04	5.87E-04
URBN	Project-Base	Mercury	Adolescent	1.04E-09	6.18E-13	0.00E+00	0.00E+00	7.93E-09	0.00E+00	8.52E-09	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-09	0.00E+00	1.16E-08	2.06E-08
URBN	Project-Base	Molybdenum	Adolescent	4.67E-07	2.77E-10	0.00E+00	0.00E+00	3.55E-07	0.00E+00	1.45E-06	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-07	0.00E+00	1.86E-06	2.68E-06
URBN	Project-Base	Selenium	Adolescent	4.53E-08	2.69E-11	0.00E+00	0.00E+00	3.44E-09	0.00E+00	5.91E-08	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-08	0.00E+00	7.39E-08	1.23E-07
URBN	Closure-Base	Arsenic	Adolescent	1.52E-07	9.02E-11	0.00E+00	0.00E+00	3.47E-08	0.00E+00	1.72E-07	9.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-07	0.00E+00	1.81E-07	3.68E-07
URBN	Closure-Base	Barium	Adolescent	1.30E-05	7.68E-09	0.00E+00	0.00E+00	9.84E-06	0.00E+00	1.82E-05	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	2.11E-05	4.39E-05
URBN	Closure-Base	Beryllium	Adolescent	5.09E-08	3.01E-11	0.00E+00	0.00E+00	3.86E-08	0.00E+00	5.97E-08	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-08	0.00E+00	6.08E-08	1.50E-07
URBN	Closure-Base	Chromium	Adolescent	3.70E-06	2.19E-09	0.00E+00	0.00E+00	2.81E-06	0.00E+00	4.40E-06	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06	0.00E+00	4.65E-06	1.12E-05
URBN	Closure-Base	Cobalt	Adolescent	4.37E-07	2.59E-10	0.00E+00	0.00E+00	3.32E-07	0.00E+00	5.72E-07	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-07	0.00E+00	6.17E-07	1.39E-06
URBN	Closure-Base	Iron	Adolescent	4.76E-03	2.82E-06	0.00E+00	0.00E+00	3.62E-03	0.00E+00	5.64E-03	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03	0.00E+00	5.71E-03	1.41E-02
URBN	Closure-Base	Lead	Adolescent	3.96E-07	2.35E-10	0.00E+00	0.00E+00	1.80E-08	0.00E+00	4.98E-07	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-07	0.00E+00	5.51E-07	9.64E-07
URBN	Closure-Base	Manganese	Adolescent	1.05E-04	6.21E-08	0.00E+00	0.00E+00	7.96E-05	0.00E+00	3.25E-04	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	4.02E-04	5.87E-04
URBN	Closure-Base	Mercury	Adolescent	1.04E-09	6.18E-13	0.00E+00	0.00E+00	7.93E-09	0.00E+00	8.52E-09	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-09	0.00E+00	1.16E-08	2.06E-08
URBN	Closure-Base	Molybdenum	Adolescent	4.67E-07	2.77E-10	0.00E+00	0.00E+00	3.55E-07	0.00E+00	1.45E-06	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-07	0.00E+00	1.86E-06	2.68E-06
URBN	Closure-Base	Selenium	Adolescent	4.53E-08	2.69E-11	0.00E+00	0.00E+00	3.44E-09	0.00E+00	5.91E-08	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-08	0.00E+00	7.39E-08	1.23E-07
URBN	Post Closure-Base	Arsenic	Adolescent	1.52E-07	9.02E-11	0.00E+00	0.00E+00	3.47E-08	0.00E+00	1.72E-07	9.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-07	0.00E+00	1.81E-07	3.68E-07
URBN	Post Closure-Base	Barium	Adolescent	1.30E-05	7.68E-09	0.00E+00	0.00E+00	9.84E-06	0.00E+00	1.82E-05	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	2.11E-05	4.39E-05
URBN	Post Closure-Base	Beryllium	Adolescent	5.09E-08	3.01E-11	0.00E+00	0.00E+00	3.86E-08	0.00E+00	5.97E-08	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-08	0.00E+00	6.08E-08	1.50E-07
URBN	Post Closure-Base	Chromium	Adolescent	3.70E-06	2.19E-09	0.00E+00	0.00E+00	2.81E-06	0.00E+00	4.40E-06	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06	0.00E+00	4.65E-06	1.12E-05
URBN	Post Closure-Base	Cobalt	Adolescent	4.37E-07	2.59E-10	0.00E+00	0.00E+00	3.32E-07	0.00E+00	5.72E-07	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-07	0.00E+00	6.17E-07	1.39E-06
URBN	Post Closure-Base	Iron	Adolescent	4.76E-03	2.82E-06	0.00E+00	0.00E+00	3.62E-03	0.00E+00	5.64E-03	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03	0.00E+00	5.71E-03	1.41E-02
URBN	Post Closure-Base	Lead	Adolescent	3.96E-07	2.35E-10	0.00E+00	0.00E+00	1.80E-08	0.00E+00	4.98E-07	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-07	0.00E+00	5.51E-07	9.64E-07
URBN	Post Closure-Base	Manganese	Adolescent	1.05E-04	6.21E-08	0.00E+00	0.00E+00	7.96E-05	0.00E+00	3.25E-04	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	4.02E-04	5.87E-04
URBN	Post Closure-Base	Mercury	Adolescent	1.04E-09	6.18E-13	0.00E+00	0.00E+00	7.93E-09	0.00E+00	8.52E-09	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-09	0.00E+00	1.16E-08	2.06E-08
URBN	Post Closure-Base	Molybdenum	Adolescent	4.67E-07	2.77E-10	0.00E+00	0.00E+00	3.55E-07	0.00E+00	1.45E-06	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-07	0.00E+00	1.86E-06	2.68E-06
URBN	Post Closure-Base	Selenium	Adolescent	4.53E-08	2.69E-11	0.00E+00	0.00E+00	3.44E-09	0.00E+00	5.91E-08	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-08	0.00E+00	7.39E-08	1.23E-07
URBN	Project-Base	Arsenic	Adult	1.52E-07	9.59E-11	0.00E+00	0.00E+00	3.91E-08	0.00E+00	1.96E-07	7.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-07	0.00E+00	2.04E-07	3.95E-07
URBN	Project-Base	Barium	Adult	1.30E-05	8.17E-09	0.00E+00	0.00E+00	1.11E-05	0.00E+00	2.08E-05	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	2.31E-05	4.72E-05
URBN	Project-Base	Beryllium	Adult	5.09E-08	3.21E-11	0.00E+00	0.00E+00	4.35E-08	0.00E+00	6.81E-08	9.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-08	0.00E+00	6.90E-08	1.63E-07
URBN	Project-Base	Chromium	Adult	3.70E-06	2.33E-09	0.00E+00	0.00E+00	3.16E-06	0.00E+00	5.03E-06	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-06	0.00E+00	5.23E-06	1.21E-05
URBN	Project-Base	Cobalt	Adult	4.37E-07	2.76E-10	0.00E+00	0.00E+00	3.74E-07	0.00E+00	6.53E-07	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-07	0.00E+00	6.90E-07	1.50E-06
URBN	Project-Base	Iron	Adult	4.76E-03	3.00E-06	0.00E+00	0.00E+00	4.08E-03	0.00E+00	6.44E-03	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-03	0.00E+00	6.50E-03	1.53E-02
URBN	Project-Base	Lead	Adult	3.96E-07	2.50E-10	0.00E+00	0.00E+00	2.03E-08	0.00E+00	5.69E-07	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-07	0.00E+00	6.12E-07	1.03E-06
URBN	Project-Base	Manganese	Adult	1.05E-04	6.61E-08	0.00E+00	0.00E+00	8.97E-05	0.00E+00	3.71E-04	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	4.35E-04	6.30E-04
URBN	Project-Base	Mercury	Adult	1.04E-09	6.58E-13	0.00E+00	0.00E+00	8.93E-09	0.00E+00	9.73E-09	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-09	0.00E+00	1.23E-08	2.23E-08
URBN	Project-Base	Molybdenum	Adult	4.67E-07	2.94E-10	0.00E+00	0.00E+00	3.99E-07	0.00E+00	1.65E-06	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-07	0.00E+00	2.00E-06	2.86E-06
URBN	Project-Base	Selenium	Adult	4.53E-08	2.86E-11	0.00E+00	0.00E+00	3.88E-09	0.00E+00	6.75E-08	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-08	0.00E+00	7.97E-08	1.29E-07

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
URBN	Closure-Base	Arsenic	Adult	1.52E-07	9.59E-11	0.00E+00	0.00E+00	3.91E-08	0.00E+00	1.96E-07	7.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-07	0.00E+00	2.04E-07	3.95E-07
URBN	Closure-Base	Barium	Adult	1.30E-05	8.17E-09	0.00E+00	0.00E+00	1.11E-05	0.00E+00	2.08E-05	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	2.31E-05	4.72E-05
URBN	Closure-Base	Beryllium	Adult	5.09E-08	3.21E-11	0.00E+00	0.00E+00	4.35E-08	0.00E+00	6.81E-08	9.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-08	0.00E+00	6.90E-08	1.63E-07
URBN	Closure-Base	Chromium	Adult	3.70E-06	2.33E-09	0.00E+00	0.00E+00	3.16E-06	0.00E+00	5.03E-06	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-06	0.00E+00	5.23E-06	1.21E-05
URBN	Closure-Base	Cobalt	Adult	4.37E-07	2.76E-10	0.00E+00	0.00E+00	3.74E-07	0.00E+00	6.53E-07	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-07	0.00E+00	6.90E-07	1.50E-06
URBN	Closure-Base	Iron	Adult	4.76E-03	3.00E-06	0.00E+00	0.00E+00	4.08E-03	0.00E+00	6.44E-03	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-03	0.00E+00	6.50E-03	1.53E-02
URBN	Closure-Base	Lead	Adult	3.96E-07	2.50E-10	0.00E+00	0.00E+00	2.03E-08	0.00E+00	5.69E-07	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-07	0.00E+00	6.12E-07	1.03E-06
URBN	Closure-Base	Manganese	Adult	1.05E-04	6.61E-08	0.00E+00	0.00E+00	8.97E-05	0.00E+00	3.71E-04	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	4.35E-04	6.30E-04
URBN	Closure-Base	Mercury	Adult	1.04E-09	6.58E-13	0.00E+00	0.00E+00	8.93E-09	0.00E+00	9.73E-09	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-09	0.00E+00	1.23E-08	2.23E-08
URBN	Closure-Base	Molybdenum	Adult	4.67E-07	2.94E-10	0.00E+00	0.00E+00	3.99E-07	0.00E+00	1.65E-06	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-07	0.00E+00	2.00E-06	2.86E-06
URBN	Closure-Base	Selenium	Adult	4.53E-08	2.86E-11	0.00E+00	0.00E+00	3.88E-09	0.00E+00	6.75E-08	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-08	0.00E+00	7.97E-08	1.29E-07
URBN	Post Closure-Base	Arsenic	Adult	1.52E-07	9.59E-11	0.00E+00	0.00E+00	3.91E-08	0.00E+00	1.96E-07	7.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-07	0.00E+00	2.04E-07	3.95E-07
URBN	Post Closure-Base	Barium	Adult	1.30E-05	8.17E-09	0.00E+00	0.00E+00	1.11E-05	0.00E+00	2.08E-05	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	2.31E-05	4.72E-05
URBN	Post Closure-Base	Beryllium	Adult	5.09E-08	3.21E-11	0.00E+00	0.00E+00	4.35E-08	0.00E+00	6.81E-08	9.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-08	0.00E+00	6.90E-08	1.63E-07
URBN	Post Closure-Base	Chromium	Adult	3.70E-06	2.33E-09	0.00E+00	0.00E+00	3.16E-06	0.00E+00	5.03E-06	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-06	0.00E+00	5.23E-06	1.21E-05
URBN	Post Closure-Base	Cobalt	Adult	4.37E-07	2.76E-10	0.00E+00	0.00E+00	3.74E-07	0.00E+00	6.53E-07	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-07	0.00E+00	6.90E-07	1.50E-06
URBN	Post Closure-Base	Iron	Adult	4.76E-03	3.00E-06	0.00E+00	0.00E+00	4.08E-03	0.00E+00	6.44E-03	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-03	0.00E+00	6.50E-03	1.53E-02
URBN	Post Closure-Base	Lead	Adult	3.96E-07	2.50E-10	0.00E+00	0.00E+00	2.03E-08	0.00E+00	5.69E-07	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-07	0.00E+00	6.12E-07	1.03E-06
URBN	Post Closure-Base	Manganese	Adult	1.05E-04	6.61E-08	0.00E+00	0.00E+00	8.97E-05	0.00E+00	3.71E-04	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	4.35E-04	6.30E-04
URBN	Post Closure-Base	Mercury	Adult	1.04E-09	6.58E-13	0.00E+00	0.00E+00	8.93E-09	0.00E+00	9.73E-09	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-09	0.00E+00	1.23E-08	2.23E-08
URBN	Post Closure-Base	Molybdenum	Adult	4.67E-07	2.94E-10	0.00E+00	0.00E+00	3.99E-07	0.00E+00	1.65E-06	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-07	0.00E+00	2.00E-06	2.86E-06
URBN	Post Closure-Base	Selenium	Adult	4.53E-08	2.86E-11	0.00E+00	0.00E+00	3.88E-09	0.00E+00	6.75E-08	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-08	0.00E+00	7.97E-08	1.29E-07
COMM	Project-Base	Arsenic	Infant	1.27E-07	3.50E-09	0.00E+00	0.00E+00	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-07	0.00E+00	0.00E+00	1.40E-07
COMM	Project-Base	Barium	Infant	1.08E-05	2.98E-07	0.00E+00	0.00E+00	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	1.38E-05
COMM	Project-Base	Beryllium	Infant	4.25E-08	1.17E-09	0.00E+00	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-08	0.00E+00	0.00E+00	5.41E-08
COMM	Project-Base	Chromium	Infant	3.09E-06	8.50E-08	0.00E+00	0.00E+00	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-06	0.00E+00	0.00E+00	3.93E-06
COMM	Project-Base	Cobalt	Infant	3.65E-07	1.00E-08	0.00E+00	0.00E+00	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-07	0.00E+00	0.00E+00	4.65E-07
COMM	Project-Base	Iron	Infant	3.98E-03	1.09E-04	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-03	0.00E+00	0.00E+00	5.07E-03
COMM	Project-Base	Lead	Infant	3.31E-07	9.09E-09	0.00E+00	0.00E+00	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-07	0.00E+00	0.00E+00	3.45E-07
COMM	Project-Base	Manganese	Infant	8.76E-05	2.41E-06	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	1.11E-04
COMM	Project-Base	Mercury	Infant	8.72E-10	2.40E-11	0.00E+00	0.00E+00	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-09	0.00E+00	0.00E+00	3.04E-09
COMM	Project-Base	Molybdenum	Infant	3.90E-07	1.07E-08	0.00E+00	0.00E+00	9.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-07	0.00E+00	0.00E+00	4.97E-07
COMM	Project-Base	Selenium	Infant	3.79E-08	1.04E-09	0.00E+00	0.00E+00	9.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-08	0.00E+00	0.00E+00	3.99E-08

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Closure-Base	Arsenic	Infant	1.27E-07	3.50E-09	0.00E+00	0.00E+00	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-07	0.00E+00	0.00E+00	1.40E-07
COMM	Closure-Base	Barium	Infant	1.08E-05	2.98E-07	0.00E+00	0.00E+00	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	1.38E-05
COMM	Closure-Base	Beryllium	Infant	4.25E-08	1.17E-09	0.00E+00	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-08	0.00E+00	0.00E+00	5.41E-08
COMM	Closure-Base	Chromium	Infant	3.09E-06	8.50E-08	0.00E+00	0.00E+00	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-06	0.00E+00	0.00E+00	3.93E-06
COMM	Closure-Base	Cobalt	Infant	3.65E-07	1.00E-08	0.00E+00	0.00E+00	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-07	0.00E+00	0.00E+00	4.65E-07
COMM	Closure-Base	Iron	Infant	3.98E-03	1.09E-04	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-03	0.00E+00	0.00E+00	5.07E-03
COMM	Closure-Base	Lead	Infant	3.31E-07	9.09E-09	0.00E+00	0.00E+00	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-07	0.00E+00	0.00E+00	3.45E-07
COMM	Closure-Base	Manganese	Infant	8.76E-05	2.41E-06	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	1.11E-04
COMM	Closure-Base	Mercury	Infant	8.72E-10	2.40E-11	0.00E+00	0.00E+00	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-09	0.00E+00	0.00E+00	3.04E-09
COMM	Closure-Base	Molybdenum	Infant	3.90E-07	1.07E-08	0.00E+00	0.00E+00	9.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-07	0.00E+00	0.00E+00	4.97E-07
COMM	Closure-Base	Selenium	Infant	3.79E-08	1.04E-09	0.00E+00	0.00E+00	9.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-08	0.00E+00	0.00E+00	3.99E-08
COMM	Post Closure-Base	Arsenic	Infant	1.27E-07	3.50E-09	0.00E+00	0.00E+00	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-07	0.00E+00	0.00E+00	1.40E-07
COMM	Post Closure-Base	Barium	Infant	1.08E-05	2.98E-07	0.00E+00	0.00E+00	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	1.38E-05
COMM	Post Closure-Base	Beryllium	Infant	4.25E-08	1.17E-09	0.00E+00	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-08	0.00E+00	0.00E+00	5.41E-08
COMM	Post Closure-Base	Chromium	Infant	3.09E-06	8.50E-08	0.00E+00	0.00E+00	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-06	0.00E+00	0.00E+00	3.93E-06
COMM	Post Closure-Base	Cobalt	Infant	3.65E-07	1.00E-08	0.00E+00	0.00E+00	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-07	0.00E+00	0.00E+00	4.65E-07
COMM	Post Closure-Base	Iron	Infant	3.98E-03	1.09E-04	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-03	0.00E+00	0.00E+00	5.07E-03
COMM	Post Closure-Base	Lead	Infant	3.31E-07	9.09E-09	0.00E+00	0.00E+00	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-07	0.00E+00	0.00E+00	3.45E-07
COMM	Post Closure-Base	Manganese	Infant	8.76E-05	2.41E-06	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	1.11E-04
COMM	Post Closure-Base	Mercury	Infant	8.72E-10	2.40E-11	0.00E+00	0.00E+00	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-09	0.00E+00	0.00E+00	3.04E-09
COMM	Post Closure-Base	Molybdenum	Infant	3.90E-07	1.07E-08	0.00E+00	0.00E+00	9.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-07	0.00E+00	0.00E+00	4.97E-07
COMM	Post Closure-Base	Selenium	Infant	3.79E-08	1.04E-09	0.00E+00	0.00E+00	9.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-08	0.00E+00	0.00E+00	3.99E-08
COMM	Project-Base	Arsenic	Toddler	5.09E-07	1.32E-08	0.00E+00	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-07	0.00E+00	0.00E+00	5.35E-07
COMM	Project-Base	Barium	Toddler	4.33E-05	1.12E-06	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	4.82E-05
COMM	Project-Base	Beryllium	Toddler	1.70E-07	4.41E-09	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-07	0.00E+00	0.00E+00	1.89E-07
COMM	Project-Base	Chromium	Toddler	1.24E-05	3.21E-07	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	1.37E-05
COMM	Project-Base	Cobalt	Toddler	1.46E-06	3.79E-08	0.00E+00	0.00E+00	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00E+00	0.00E+00	1.62E-06
COMM	Project-Base	Iron	Toddler	1.59E-02	4.13E-04	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	0.00E+00	0.00E+00	1.77E-02
COMM	Project-Base	Lead	Toddler	1.32E-06	3.43E-08	0.00E+00	0.00E+00	6.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	1.36E-06
COMM	Project-Base	Manganese	Toddler	3.50E-04	9.08E-06	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	3.89E-04
COMM	Project-Base	Mercury	Toddler	3.49E-09	9.05E-11	0.00E+00	0.00E+00	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-09	0.00E+00	0.00E+00	6.58E-09
COMM	Project-Base	Molybdenum	Toddler	1.56E-06	4.05E-08	0.00E+00	0.00E+00	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-06	0.00E+00	0.00E+00	1.74E-06
COMM	Project-Base	Selenium	Toddler	1.52E-07	3.93E-09	0.00E+00	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07	0.00E+00	0.00E+00	1.57E-07
COMM	Closure-Base	Arsenic	Toddler	5.09E-07	1.32E-08	0.00E+00	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-07	0.00E+00	0.00E+00	5.35E-07
COMM	Closure-Base	Barium	Toddler	4.33E-05	1.12E-06	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	4.82E-05
COMM	Closure-Base	Beryllium	Toddler	1.70E-07	4.41E-09	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-07	0.00E+00	0.00E+00	1.89E-07
COMM	Closure-Base	Chromium	Toddler	1.24E-05	3.21E-07	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	1.37E-05
COMM	Closure-Base	Cobalt	Toddler	1.46E-06	3.79E-08	0.00E+00	0.00E+00	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00E+00	0.00E+00	1.62E-06
COMM	Closure-Base	Iron	Toddler	1.59E-02	4.13E-04	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	0.00E+00	0.00E+00	1.77E-02
COMM	Closure-Base	Lead	Toddler	1.32E-06	3.43E-08	0.00E+00	0.00E+00	6.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	1.36E-06
COMM	Closure-Base	Manganese	Toddler	3.50E-04	9.08E-06	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	3.89E-04
COMM	Closure-Base	Mercury	Toddler	3.49E-09	9.05E-11	0.00E+00	0.00E+00	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-09	0.00E+00	0.00E+00	6.58E-09
COMM	Closure-Base	Molybdenum	Toddler	1.56E-06	4.05E-08	0.00E+00	0.00E+00	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-06	0.00E+00	0.00E+00	1.74E-06
COMM	Closure-Base	Selenium	Toddler	1.52E-07	3.93E-09	0.00E+00	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07	0.00E+00	0.00E+00	1.57E-07

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Post Closure-Base	Arsenic	Toddler	5.09E-07	1.32E-08	0.00E+00	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-07	0.00E+00	0.00E+00	5.35E-07
COMM	Post Closure-Base	Barium	Toddler	4.33E-05	1.12E-06	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	4.82E-05
COMM	Post Closure-Base	Beryllium	Toddler	1.70E-07	4.41E-09	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-07	0.00E+00	0.00E+00	1.89E-07
COMM	Post Closure-Base	Chromium	Toddler	1.24E-05	3.21E-07	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	1.37E-05
COMM	Post Closure-Base	Cobalt	Toddler	1.46E-06	3.79E-08	0.00E+00	0.00E+00	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00E+00	0.00E+00	1.62E-06
COMM	Post Closure-Base	Iron	Toddler	1.59E-02	4.13E-04	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	0.00E+00	0.00E+00	1.77E-02
COMM	Post Closure-Base	Lead	Toddler	1.32E-06	3.43E-08	0.00E+00	0.00E+00	6.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	1.36E-06
COMM	Post Closure-Base	Manganese	Toddler	3.50E-04	9.08E-06	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	3.89E-04
COMM	Post Closure-Base	Mercury	Toddler	3.49E-09	9.05E-11	0.00E+00	0.00E+00	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-09	0.00E+00	0.00E+00	6.58E-09
COMM	Post Closure-Base	Molybdenum	Toddler	1.56E-06	4.05E-08	0.00E+00	0.00E+00	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-06	0.00E+00	0.00E+00	1.74E-06
COMM	Post Closure-Base	Selenium	Toddler	1.52E-07	3.93E-09	0.00E+00	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07	0.00E+00	0.00E+00	1.57E-07
COMM	Project-Base	Arsenic	Child	1.27E-07	2.30E-08	0.00E+00	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-07	0.00E+00	0.00E+00	1.70E-07
COMM	Project-Base	Barium	Child	1.08E-05	1.96E-06	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	1.84E-05
COMM	Project-Base	Beryllium	Child	4.25E-08	7.71E-09	0.00E+00	0.00E+00	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-08	0.00E+00	0.00E+00	7.24E-08
COMM	Project-Base	Chromium	Child	3.09E-06	5.60E-07	0.00E+00	0.00E+00	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-06	0.00E+00	0.00E+00	5.27E-06
COMM	Project-Base	Cobalt	Child	3.65E-07	6.62E-08	0.00E+00	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-07	0.00E+00	0.00E+00	6.22E-07
COMM	Project-Base	Iron	Child	3.98E-03	7.21E-04	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-03	0.00E+00	0.00E+00	6.78E-03
COMM	Project-Base	Lead	Child	3.31E-07	5.99E-08	0.00E+00	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07	0.00E+00	0.00E+00	4.01E-07
COMM	Project-Base	Manganese	Child	8.76E-05	1.59E-05	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04
COMM	Project-Base	Mercury	Child	8.72E-10	1.58E-10	0.00E+00	0.00E+00	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-09	0.00E+00	0.00E+00	5.59E-09
COMM	Project-Base	Molybdenum	Child	3.90E-07	7.07E-08	0.00E+00	0.00E+00	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-07	0.00E+00	0.00E+00	6.65E-07
COMM	Project-Base	Selenium	Child	3.79E-08	6.87E-09	0.00E+00	0.00E+00	1.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-08	0.00E+00	0.00E+00	4.67E-08
COMM	Closure-Base	Arsenic	Child	1.27E-07	2.30E-08	0.00E+00	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-07	0.00E+00	0.00E+00	1.70E-07
COMM	Closure-Base	Barium	Child	1.08E-05	1.96E-06	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	1.84E-05
COMM	Closure-Base	Beryllium	Child	4.25E-08	7.71E-09	0.00E+00	0.00E+00	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-08	0.00E+00	0.00E+00	7.24E-08
COMM	Closure-Base	Chromium	Child	3.09E-06	5.60E-07	0.00E+00	0.00E+00	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-06	0.00E+00	0.00E+00	5.27E-06
COMM	Closure-Base	Cobalt	Child	3.65E-07	6.62E-08	0.00E+00	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-07	0.00E+00	0.00E+00	6.22E-07
COMM	Closure-Base	Iron	Child	3.98E-03	7.21E-04	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-03	0.00E+00	0.00E+00	6.78E-03
COMM	Closure-Base	Lead	Child	3.31E-07	5.99E-08	0.00E+00	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07	0.00E+00	0.00E+00	4.01E-07
COMM	Closure-Base	Manganese	Child	8.76E-05	1.59E-05	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04
COMM	Closure-Base	Mercury	Child	8.72E-10	1.58E-10	0.00E+00	0.00E+00	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-09	0.00E+00	0.00E+00	5.59E-09
COMM	Closure-Base	Molybdenum	Child	3.90E-07	7.07E-08	0.00E+00	0.00E+00	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-07	0.00E+00	0.00E+00	6.65E-07
COMM	Closure-Base	Selenium	Child	3.79E-08	6.87E-09	0.00E+00	0.00E+00	1.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-08	0.00E+00	0.00E+00	4.67E-08

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Post Closure-Base	Arsenic	Child	1.27E-07	2.30E-08	0.00E+00	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-07	0.00E+00	0.00E+00	1.70E-07
COMM	Post Closure-Base	Barium	Child	1.08E-05	1.96E-06	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	1.84E-05
COMM	Post Closure-Base	Beryllium	Child	4.25E-08	7.71E-09	0.00E+00	0.00E+00	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-08	0.00E+00	0.00E+00	7.24E-08
COMM	Post Closure-Base	Chromium	Child	3.09E-06	5.60E-07	0.00E+00	0.00E+00	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-06	0.00E+00	0.00E+00	5.27E-06
COMM	Post Closure-Base	Cobalt	Child	3.65E-07	6.62E-08	0.00E+00	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-07	0.00E+00	0.00E+00	6.22E-07
COMM	Post Closure-Base	Iron	Child	3.98E-03	7.21E-04	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-03	0.00E+00	0.00E+00	6.78E-03
COMM	Post Closure-Base	Lead	Child	3.31E-07	5.99E-08	0.00E+00	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07	0.00E+00	0.00E+00	4.01E-07
COMM	Post Closure-Base	Manganese	Child	8.76E-05	1.59E-05	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04
COMM	Post Closure-Base	Mercury	Child	8.72E-10	1.58E-10	0.00E+00	0.00E+00	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-09	0.00E+00	0.00E+00	5.59E-09
COMM	Post Closure-Base	Molybdenum	Child	3.90E-07	7.07E-08	0.00E+00	0.00E+00	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-07	0.00E+00	0.00E+00	6.65E-07
COMM	Post Closure-Base	Selenium	Child	3.79E-08	6.87E-09	0.00E+00	0.00E+00	1.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-08	0.00E+00	0.00E+00	4.67E-08
COMM	Project-Base	Arsenic	Adolescent	1.27E-07	2.48E-08	0.00E+00	0.00E+00	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-07	0.00E+00	0.00E+00	1.81E-07
COMM	Project-Base	Barium	Adolescent	1.08E-05	2.11E-06	0.00E+00	0.00E+00	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	2.12E-05
COMM	Project-Base	Beryllium	Adolescent	4.25E-08	8.29E-09	0.00E+00	0.00E+00	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-08	0.00E+00	0.00E+00	8.31E-08
COMM	Project-Base	Chromium	Adolescent	3.09E-06	6.03E-07	0.00E+00	0.00E+00	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	6.04E-06
COMM	Project-Base	Cobalt	Adolescent	3.65E-07	7.12E-08	0.00E+00	0.00E+00	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-07	0.00E+00	0.00E+00	7.14E-07
COMM	Project-Base	Iron	Adolescent	3.98E-03	7.76E-04	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-03	0.00E+00	0.00E+00	7.78E-03
COMM	Project-Base	Lead	Adolescent	3.31E-07	6.45E-08	0.00E+00	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-07	0.00E+00	0.00E+00	4.10E-07
COMM	Project-Base	Manganese	Adolescent	8.76E-05	1.71E-05	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	1.71E-04
COMM	Project-Base	Mercury	Adolescent	8.72E-10	1.70E-10	0.00E+00	0.00E+00	6.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-09	0.00E+00	0.00E+00	7.67E-09
COMM	Project-Base	Molybdenum	Adolescent	3.90E-07	7.61E-08	0.00E+00	0.00E+00	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-07	0.00E+00	0.00E+00	7.63E-07
COMM	Project-Base	Selenium	Adolescent	3.79E-08	7.39E-09	0.00E+00	0.00E+00	2.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-08	0.00E+00	0.00E+00	4.81E-08
COMM	Closure-Base	Arsenic	Adolescent	1.27E-07	2.48E-08	0.00E+00	0.00E+00	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-07	0.00E+00	0.00E+00	1.81E-07
COMM	Closure-Base	Barium	Adolescent	1.08E-05	2.11E-06	0.00E+00	0.00E+00	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	2.12E-05
COMM	Closure-Base	Beryllium	Adolescent	4.25E-08	8.29E-09	0.00E+00	0.00E+00	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-08	0.00E+00	0.00E+00	8.31E-08
COMM	Closure-Base	Chromium	Adolescent	3.09E-06	6.03E-07	0.00E+00	0.00E+00	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	6.04E-06
COMM	Closure-Base	Cobalt	Adolescent	3.65E-07	7.12E-08	0.00E+00	0.00E+00	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-07	0.00E+00	0.00E+00	7.14E-07
COMM	Closure-Base	Iron	Adolescent	3.98E-03	7.76E-04	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-03	0.00E+00	0.00E+00	7.78E-03
COMM	Closure-Base	Lead	Adolescent	3.31E-07	6.45E-08	0.00E+00	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-07	0.00E+00	0.00E+00	4.10E-07
COMM	Closure-Base	Manganese	Adolescent	8.76E-05	1.71E-05	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	1.71E-04
COMM	Closure-Base	Mercury	Adolescent	8.72E-10	1.70E-10	0.00E+00	0.00E+00	6.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-09	0.00E+00	0.00E+00	7.67E-09
COMM	Closure-Base	Molybdenum	Adolescent	3.90E-07	7.61E-08	0.00E+00	0.00E+00	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-07	0.00E+00	0.00E+00	7.63E-07
COMM	Closure-Base	Selenium	Adolescent	3.79E-08	7.39E-09	0.00E+00	0.00E+00	2.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-08	0.00E+00	0.00E+00	4.81E-08
COMM	Post Closure-Base	Arsenic	Adolescent	1.27E-07	2.48E-08	0.00E+00	0.00E+00	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-07	0.00E+00	0.00E+00	1.81E-07
COMM	Post Closure-Base	Barium	Adolescent	1.08E-05	2.11E-06	0.00E+00	0.00E+00	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	2.12E-05
COMM	Post Closure-Base	Beryllium	Adolescent	4.25E-08	8.29E-09	0.00E+00	0.00E+00	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-08	0.00E+00	0.00E+00	8.31E-08
COMM	Post Closure-Base	Chromium	Adolescent	3.09E-06	6.03E-07	0.00E+00	0.00E+00	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	6.04E-06
COMM	Post Closure-Base	Cobalt	Adolescent	3.65E-07	7.12E-08	0.00E+00	0.00E+00	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-07	0.00E+00	0.00E+00	7.14E-07
COMM	Post Closure-Base	Iron	Adolescent	3.98E-03	7.76E-04	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-03	0.00E+00	0.00E+00	7.78E-03
COMM	Post Closure-Base	Lead	Adolescent	3.31E-07	6.45E-08	0.00E+00	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-07	0.00E+00	0.00E+00	4.10E-07
COMM	Post Closure-Base	Manganese	Adolescent	8.76E-05	1.71E-05	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	1.71E-04
COMM	Post Closure-Base	Mercury	Adolescent	8.72E-10	1.70E-10	0.00E+00	0.00E+00	6.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-09	0.00E+00	0.00E+00	7.67E-09
COMM	Post Closure-Base	Molybdenum	Adolescent	3.90E-07	7.61E-08	0.00E+00	0.00E+00	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-07	0.00E+00	0.00E+00	7.63E-07
COMM	Post Closure-Base	Selenium	Adolescent	3.79E-08	7.39E-09	0.00E+00	0.00E+00	2.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-08	0.00E+00	0.00E+00	4.81E-08

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Project-Base	Arsenic	Adult	1.27E-07	2.64E-08	0.00E+00	0.00E+00	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-07	0.00E+00	0.00E+00	1.86E-07
COMM	Project-Base	Barium	Adult	1.08E-05	2.25E-06	0.00E+00	0.00E+00	9.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	2.23E-05
COMM	Project-Base	Beryllium	Adult	4.25E-08	8.82E-09	0.00E+00	0.00E+00	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-08	0.00E+00	0.00E+00	8.77E-08
COMM	Project-Base	Chromium	Adult	3.09E-06	6.41E-07	0.00E+00	0.00E+00	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06	0.00E+00	0.00E+00	6.38E-06
COMM	Project-Base	Cobalt	Adult	3.65E-07	7.58E-08	0.00E+00	0.00E+00	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-07	0.00E+00	0.00E+00	7.54E-07
COMM	Project-Base	Iron	Adult	3.98E-03	8.26E-04	0.00E+00	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03	0.00E+00	0.00E+00	8.21E-03
COMM	Project-Base	Lead	Adult	3.31E-07	6.86E-08	0.00E+00	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-07	0.00E+00	0.00E+00	4.16E-07
COMM	Project-Base	Manganese	Adult	8.76E-05	1.82E-05	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	1.81E-04
COMM	Project-Base	Mercury	Adult	8.72E-10	1.81E-10	0.00E+00	0.00E+00	7.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-09	0.00E+00	0.00E+00	8.52E-09
COMM	Project-Base	Molybdenum	Adult	3.90E-07	8.10E-08	0.00E+00	0.00E+00	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-07	0.00E+00	0.00E+00	8.05E-07
COMM	Project-Base	Selenium	Adult	3.79E-08	7.86E-09	0.00E+00	0.00E+00	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-08	0.00E+00	0.00E+00	4.90E-08
COMM	Closure-Base	Arsenic	Adult	1.27E-07	2.64E-08	0.00E+00	0.00E+00	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-07	0.00E+00	0.00E+00	1.86E-07
COMM	Closure-Base	Barium	Adult	1.08E-05	2.25E-06	0.00E+00	0.00E+00	9.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	2.23E-05
COMM	Closure-Base	Beryllium	Adult	4.25E-08	8.82E-09	0.00E+00	0.00E+00	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-08	0.00E+00	0.00E+00	8.77E-08
COMM	Closure-Base	Chromium	Adult	3.09E-06	6.41E-07	0.00E+00	0.00E+00	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06	0.00E+00	0.00E+00	6.38E-06
COMM	Closure-Base	Cobalt	Adult	3.65E-07	7.58E-08	0.00E+00	0.00E+00	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-07	0.00E+00	0.00E+00	7.54E-07
COMM	Closure-Base	Iron	Adult	3.98E-03	8.26E-04	0.00E+00	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03	0.00E+00	0.00E+00	8.21E-03
COMM	Closure-Base	Lead	Adult	3.31E-07	6.86E-08	0.00E+00	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-07	0.00E+00	0.00E+00	4.16E-07
COMM	Closure-Base	Manganese	Adult	8.76E-05	1.82E-05	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	1.81E-04
COMM	Closure-Base	Mercury	Adult	8.72E-10	1.81E-10	0.00E+00	0.00E+00	7.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-09	0.00E+00	0.00E+00	8.52E-09
COMM	Closure-Base	Molybdenum	Adult	3.90E-07	8.10E-08	0.00E+00	0.00E+00	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-07	0.00E+00	0.00E+00	8.05E-07
COMM	Closure-Base	Selenium	Adult	3.79E-08	7.86E-09	0.00E+00	0.00E+00	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-08	0.00E+00	0.00E+00	4.90E-08
COMM	Post Closure-Base	Arsenic	Adult	1.27E-07	2.64E-08	0.00E+00	0.00E+00	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-07	0.00E+00	0.00E+00	1.86E-07
COMM	Post Closure-Base	Barium	Adult	1.08E-05	2.25E-06	0.00E+00	0.00E+00	9.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	2.23E-05
COMM	Post Closure-Base	Beryllium	Adult	4.25E-08	8.82E-09	0.00E+00	0.00E+00	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-08	0.00E+00	0.00E+00	8.77E-08
COMM	Post Closure-Base	Chromium	Adult	3.09E-06	6.41E-07	0.00E+00	0.00E+00	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06	0.00E+00	0.00E+00	6.38E-06
COMM	Post Closure-Base	Cobalt	Adult	3.65E-07	7.58E-08	0.00E+00	0.00E+00	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-07	0.00E+00	0.00E+00	7.54E-07
COMM	Post Closure-Base	Iron	Adult	3.98E-03	8.26E-04	0.00E+00	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03	0.00E+00	0.00E+00	8.21E-03
COMM	Post Closure-Base	Lead	Adult	3.31E-07	6.86E-08	0.00E+00	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-07	0.00E+00	0.00E+00	4.16E-07
COMM	Post Closure-Base	Manganese	Adult	8.76E-05	1.82E-05	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	1.81E-04
COMM	Post Closure-Base	Mercury	Adult	8.72E-10	1.81E-10	0.00E+00	0.00E+00	7.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-09	0.00E+00	0.00E+00	8.52E-09
COMM	Post Closure-Base	Molybdenum	Adult	3.90E-07	8.10E-08	0.00E+00	0.00E+00	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-07	0.00E+00	0.00E+00	8.05E-07
COMM	Post Closure-Base	Selenium	Adult	3.79E-08	7.86E-09	0.00E+00	0.00E+00	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-08	0.00E+00	0.00E+00	4.90E-08

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
Inorganic Mercury																					
RESI	Base	MercuryIng	Infant	9.85E-07	8.23E-11	9.83E-06	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06	9.83E-06	0.00E+00	1.32E-05
RESI	Project	MercuryIng	Infant	9.91E-07	8.28E-11	9.27E-06	0.00E+00	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	9.27E-06	0.00E+00	1.27E-05
RESI	Closure	MercuryIng	Infant	9.91E-07	8.28E-11	9.29E-06	0.00E+00	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	9.29E-06	0.00E+00	1.27E-05
RESI	Post Closure	MercuryIng	Infant	9.91E-07	8.28E-11	8.94E-06	0.00E+00	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	8.94E-06	0.00E+00	1.24E-05
RECR	Base	MercuryIng	Infant	9.85E-07	8.23E-11	9.83E-06	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06	9.83E-06	0.00E+00	1.32E-05
RECR	Project	MercuryIng	Infant	9.91E-07	8.28E-11	9.27E-06	0.00E+00	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	9.27E-06	0.00E+00	1.27E-05
RECR	Closure	MercuryIng	Infant	9.91E-07	8.28E-11	9.29E-06	0.00E+00	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	9.29E-06	0.00E+00	1.27E-05
RECR	Post Closure	MercuryIng	Infant	9.91E-07	8.28E-11	8.94E-06	0.00E+00	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	8.94E-06	0.00E+00	1.24E-05
URBN	Base	MercuryIng	Infant	9.85E-07	8.23E-11	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06	0.00E+00	0.00E+00	3.40E-06
URBN	Project	MercuryIng	Infant	9.86E-07	8.24E-11	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-06	0.00E+00	0.00E+00	3.41E-06
URBN	Closure	MercuryIng	Infant	9.86E-07	8.24E-11	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-06	0.00E+00	0.00E+00	3.41E-06
URBN	Post Closure	MercuryIng	Infant	9.86E-07	8.24E-11	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-06	0.00E+00	0.00E+00	3.41E-06
COMM	Base	MercuryIng	Infant	9.85E-07	2.71E-08	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06	0.00E+00	0.00E+00	3.43E-06
COMM	Project	MercuryIng	Infant	9.86E-07	2.71E-08	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06	0.00E+00	0.00E+00	3.43E-06
COMM	Closure	MercuryIng	Infant	9.86E-07	2.71E-08	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06	0.00E+00	0.00E+00	3.43E-06
COMM	Post Closure	MercuryIng	Infant	9.86E-07	2.71E-08	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06	0.00E+00	0.00E+00	3.43E-06
RESI	Base	MercuryIng	Toddler	3.94E-06	3.11E-10	1.97E-05	3.28E-06	3.39E-06	3.48E-05	1.92E-04	6.70E-05	1.97E-05	1.71E-03	3.31E-06	2.48E-04	1.62E-05	3.02E-05	7.33E-06	2.29E-05	2.32E-03	2.35E-03
RESI	Project	MercuryIng	Toddler	3.96E-06	3.13E-10	1.85E-05	3.10E-06	3.41E-06	3.49E-05	1.92E-04	6.70E-05	1.97E-05	1.62E-03	3.32E-06	2.46E-04	1.63E-05	2.99E-05	7.37E-06	2.16E-05	2.23E-03	2.25E-03
RESI	Closure	MercuryIng	Toddler	3.96E-06	3.13E-10	1.86E-05	3.10E-06	3.41E-06	3.49E-05	1.92E-04	6.70E-05	1.97E-05	1.62E-03	3.32E-06	2.47E-04	1.63E-05	3.00E-05	7.37E-06	2.17E-05	2.23E-03	2.26E-03
RESI	Post Closure	MercuryIng	Toddler	3.96E-06	3.13E-10	1.79E-05	2.99E-06	3.41E-06	3.49E-05	1.92E-04	6.70E-05	1.97E-05	1.56E-03	3.32E-06	2.44E-04	1.63E-05	2.97E-05	7.37E-06	2.09E-05	2.16E-03	2.19E-03
RECR	Base	MercuryIng	Toddler	3.94E-06	3.11E-10	1.97E-05	3.28E-06	3.39E-06	6.97E-06	3.85E-05	1.34E-05	3.93E-06	8.48E-04	6.62E-07	4.97E-05	3.25E-06	6.03E-06	7.33E-06	2.29E-05	9.70E-04	1.00E-03
RECR	Project	MercuryIng	Toddler	3.96E-06	3.13E-10	1.85E-05	3.10E-06	3.41E-06	6.97E-06	3.85E-05	1.34E-05	3.94E-06	8.00E-04	6.64E-07	4.92E-05	3.26E-06	5.99E-06	7.37E-06	2.16E-05	9.22E-04	9.51E-04
RECR	Closure	MercuryIng	Toddler	3.96E-06	3.13E-10	1.86E-05	3.10E-06	3.41E-06	6.97E-06	3.85E-05	1.34E-05	3.94E-06	8.01E-04	6.64E-07	4.93E-05	3.26E-06	6.00E-06	7.37E-06	2.17E-05	9.23E-04	9.52E-04
RECR	Post Closure	MercuryIng	Toddler	3.96E-06	3.13E-10	1.79E-05	2.99E-06	3.41E-06	6.97E-06	3.85E-05	1.34E-05	3.94E-06	7.71E-04	6.64E-07	4.87E-05	3.26E-06	5.93E-06	7.37E-06	2.09E-05	8.92E-04	9.21E-04
URBN	Base	MercuryIng	Toddler	3.94E-06	3.11E-10	0.00E+00	0.00E+00	3.39E-06	0.00E+00	3.85E-05	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06	0.00E+00	5.18E-05	5.92E-05
URBN	Project	MercuryIng	Toddler	3.94E-06	3.11E-10	0.00E+00	0.00E+00	3.39E-06	0.00E+00	3.85E-05	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-06	0.00E+00	5.18E-05	5.92E-05
URBN	Closure	MercuryIng	Toddler	3.94E-06	3.11E-10	0.00E+00	0.00E+00	3.39E-06	0.00E+00	3.85E-05	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-06	0.00E+00	5.18E-05	5.92E-05
URBN	Post Closure	MercuryIng	Toddler	3.94E-06	3.11E-10	0.00E+00	0.00E+00	3.39E-06	0.00E+00	3.85E-05	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-06	0.00E+00	5.18E-05	5.92E-05
COMM	Base	MercuryIng	Toddler	3.94E-06	1.02E-07	0.00E+00	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	7.43E-06
COMM	Project	MercuryIng	Toddler	3.94E-06	1.02E-07	0.00E+00	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	7.44E-06
COMM	Closure	MercuryIng	Toddler	3.94E-06	1.02E-07	0.00E+00	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	7.44E-06
COMM	Post Closure	MercuryIng	Toddler	3.94E-06	1.02E-07	0.00E+00	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	7.44E-06
RESI	Base	MercuryIng	Child	9.85E-07	5.43E-10	2.62E-05	3.55E-06	5.15E-06	7.38E-05	2.81E-04	1.03E-04	2.88E-05	2.84E-03	4.18E-06	3.14E-04	3.05E-05	4.09E-05	6.13E-06	2.98E-05	3.72E-03	3.76E-03
RESI	Project	MercuryIng	Child	9.91E-07	5.46E-10	2.47E-05	3.35E-06	5.18E-06	7.39E-05	2.81E-04	1.03E-04	2.88E-05	2.68E-03	4.19E-06	3.11E-04	3.07E-05	4.06E-05	6.17E-06	2.81E-05	3.56E-03	3.59E-03
RESI	Closure	MercuryIng	Child	9.91E-07	5.46E-10	2.48E-05	3.35E-06	5.18E-06	7.39E-05	2.81E-04	1.03E-04	2.88E-05	2.69E-03	4.19E-06	3.11E-04	3.07E-05	4.07E-05	6.17E-06	2.81E-05	3.56E-03	3.60E-03
RESI	Post Closure	MercuryIng	Child	9.91E-07	5.46E-10	2.38E-05	3.23E-06	5.18E-06	7.39E-05	2.81E-04	1.03E-04	2.88E-05	2.59E-03	4.19E-06	3.08E-04	3.07E-05	4.03E-05	6.17E-06	2.71E-05	3.46E-03	3.49E-03
RECR	Base	MercuryIng	Child	9.85E-07	5.43E-10	2.62E-05	3.55E-06	5.15E-06	1.48E-05	5.62E-05	2.05E-05	5.75E-06	1.21E-03	8.36E-07	6.27E-05	6.11E-06	8.19E-06	6.13E-06	2.98E-05	1.38E-03	1.42E-03
RECR	Project	MercuryIng	Child	9.91E-07	5.46E-10	2.47E-05	3.35E-06	5.18E-06	1.48E-05	5.63E-05	2.05E-05	5.76E-06	1.14E-03	8.38E-07	6.22E-05	6.14E-06	8.13E-06	6.17E-06	2.81E-05	1.31E-03	1.35E-03
RECR	Closure	MercuryIng	Child	9.91E-07	5.46E-10	2.48E-05	3.35E-06	5.18E-06	1.48E-05	5.63E-05	2.05E-05	5.76E-06	1.14E-03	8.38E-07	6.23E-05	6.14E-06	8.14E-06	6.17E-06	2.81E-05	1.31E-03	1.35E-03
RECR	Post Closure	MercuryIng	Child	9.91E-07	5.46E-10	2.38E-05	3.23E-06	5.18E-06	1.48E-05	5.63E-05	2.05E-05	5.76E-06	1.10E-03	8.38E-07	6.15E-05	6.14E-06	8.06E-06	6.17E-06	2.71E-05	1.27E-03	1.30E-03
URBN	Base	MercuryIng	Child	9.85E-07	5.43E-10	0.00E+00	0.00E+00	5.15E-06	0.00E+00	5.62E-05	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-06	0.00E+00	7.68E-05	8.29E-05
URBN	Project	MercuryIng	Child	9.86E-07	5.43E-10	0.00E+00	0.00E+00	5.15E-06	0.00E+00	5.62E-05	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06	0.00E+00	7.68E-05	8.29E-05
URBN	Closure	MercuryIng	Child	9.86E-07	5.43E-10	0.00E+00	0.00E+00	5.15E-06	0.00E+00	5.62E-05	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06	0.00E+00	7.68E-05	8.29E-05
URBN	Post Closure	MercuryIng	Child	9.86E-07	5.43E-10	0.00E+00	0.00E+00	5.15E-06	0.00E+00	5.62E-05	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06	0.00E+00	7.68E-05	8.29E-05
COMM	Base	MercuryIng	Child	9.85E-07	1.79E-07	0.00E+00	0.00E+00	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06	0.00E+00	0.00E+00	6.31E-06
COMM	Project	MercuryIng	Child	9.86E-07	1.79E-07	0.00E+00	0.00E+00	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06	0.00E+00	0.00E+00	6.32E-06
COMM	Closure	MercuryIng	Child	9.86E-07	1.79E-07	0.00E+00	0.00E+00	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06	0.00E+00	0.00E+00	6.32E-06
COMM	Post Closure	MercuryIng	Child	9.86E-07	1.79E-07	0.00E+00	0.00E+00	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06	0.00E+00	0.00E+00	6.32E-06
RESI	Base	MercuryIng	Adolescent	9.85E-07	5.84E-10	3.28E-05	3.18E-06	7.49E-06	7.97E-05	3.44E-04	1.45E-04	3.52E-05	3.43E-03	5.08E-06	3.81E-04	5.82E-05	6.80E-05	8.47E-06	3.59E-05	4.54E-03	4.59E-03
RESI	Project	MercuryIng	Adolescent	9.91E-07	5.87E-10	3.09E-05	3.00E-06	7.53E-06	7.97E-05	3.45E-04	1.45E-04	3.53E-05	3.23E-03	5.09E-06	3.78E-04	5.85E-05	6.75E-05	8.52E-06	3.39E-05	4.35E-03	4.39E-03
RESI	Closure	MercuryIng	Adolescent	9.91E-07	5.87E-10	3.10E-05	3.00E-06	7.53E-06	7.97E-05	3.45E-04	1.45E-04	3.53E-05	3.24E-03	5.09E-06	3.78E-04	5.85E-05	6.76E-05	8.52E-06	3.40E-05	4.35E-03	4.39E-03

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Post Closure	MercuryIng	Adolescent	9.91E-07	5.87E-10	2.98E-05	2.89E-06	7.53E-06	7.97E-05	3.45E-04	1.45E-04	3.53E-05	3.12E-03	5.09E-06	3.74E-04	5.85E-05	6.69E-05	8.52E-06	3.27E-05	4.22E-03	4.27E-03
RECR	Base	MercuryIng	Adolescent	9.85E-07	5.84E-10	3.28E-05	3.18E-06	7.49E-06	1.59E-05	6.89E-05	2.89E-05	7.05E-06	1.88E-03	1.02E-06	7.62E-05	1.16E-05	1.36E-05	8.47E-06	3.59E-05	2.11E-03	2.15E-03
RECR	Project	MercuryIng	Adolescent	9.91E-07	5.87E-10	3.09E-05	3.00E-06	7.53E-06	1.59E-05	6.89E-05	2.90E-05	7.05E-06	1.78E-03	1.02E-06	7.55E-05	1.17E-05	1.35E-05	8.52E-06	3.39E-05	2.00E-03	2.04E-03
RECR	Closure	MercuryIng	Adolescent	9.91E-07	5.87E-10	3.10E-05	3.00E-06	7.53E-06	1.59E-05	6.89E-05	2.90E-05	7.05E-06	1.78E-03	1.02E-06	7.57E-05	1.17E-05	1.35E-05	8.52E-06	3.40E-05	2.00E-03	2.05E-03
RECR	Post Closure	MercuryIng	Adolescent	9.91E-07	5.87E-10	2.98E-05	2.89E-06	7.53E-06	1.59E-05	6.89E-05	2.90E-05	7.05E-06	1.71E-03	1.02E-06	7.48E-05	1.17E-05	1.34E-05	8.52E-06	3.27E-05	1.94E-03	1.98E-03
URBN	Base	MercuryIng	Adolescent	9.85E-07	5.84E-10	0.00E+00	0.00E+00	7.49E-06	0.00E+00	6.89E-05	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06	0.00E+00	9.78E-05	1.06E-04
URBN	Project	MercuryIng	Adolescent	9.86E-07	5.85E-10	0.00E+00	0.00E+00	7.49E-06	0.00E+00	6.89E-05	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06	0.00E+00	9.78E-05	1.06E-04
URBN	Closure	MercuryIng	Adolescent	9.86E-07	5.85E-10	0.00E+00	0.00E+00	7.49E-06	0.00E+00	6.89E-05	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06	0.00E+00	9.78E-05	1.06E-04
URBN	Post Closure	MercuryIng	Adolescent	9.86E-07	5.85E-10	0.00E+00	0.00E+00	7.49E-06	0.00E+00	6.89E-05	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06	0.00E+00	9.78E-05	1.06E-04
COMM	Base	MercuryIng	Adolescent	9.85E-07	1.92E-07	0.00E+00	0.00E+00	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06	0.00E+00	0.00E+00	8.66E-06
COMM	Project	MercuryIng	Adolescent	9.86E-07	1.92E-07	0.00E+00	0.00E+00	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06	0.00E+00	0.00E+00	8.67E-06
COMM	Closure	MercuryIng	Adolescent	9.86E-07	1.92E-07	0.00E+00	0.00E+00	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06	0.00E+00	0.00E+00	8.67E-06
COMM	Post Closure	MercuryIng	Adolescent	9.86E-07	1.92E-07	0.00E+00	0.00E+00	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06	0.00E+00	0.00E+00	8.67E-06
RESI	Base	MercuryIng	Adult	9.85E-07	6.21E-10	4.91E-05	2.99E-06	8.43E-06	7.65E-05	3.93E-04	1.20E-04	4.02E-05	3.43E-03	5.29E-06	3.97E-04	6.75E-05	6.89E-05	9.42E-06	5.21E-05	4.59E-03	4.66E-03
RESI	Project	MercuryIng	Adult	9.91E-07	6.25E-10	4.64E-05	2.82E-06	8.48E-06	7.66E-05	3.93E-04	1.20E-04	4.03E-05	3.23E-03	5.31E-06	3.93E-04	6.79E-05	6.84E-05	9.47E-06	4.92E-05	4.40E-03	4.46E-03
RESI	Closure	MercuryIng	Adult	9.91E-07	6.25E-10	4.64E-05	2.83E-06	8.48E-06	7.66E-05	3.93E-04	1.20E-04	4.03E-05	3.24E-03	5.31E-06	3.94E-04	6.79E-05	6.85E-05	9.47E-06	4.93E-05	4.40E-03	4.46E-03
RESI	Post Closure	MercuryIng	Adult	9.91E-07	6.25E-10	4.47E-05	2.72E-06	8.48E-06	7.66E-05	3.93E-04	1.20E-04	4.03E-05	3.12E-03	5.31E-06	3.90E-04	6.79E-05	6.78E-05	9.47E-06	4.74E-05	4.28E-03	4.33E-03
RECR	Base	MercuryIng	Adult	9.85E-07	6.21E-10	4.91E-05	2.99E-06	8.43E-06	1.53E-05	7.86E-05	2.40E-05	8.04E-06	1.88E-03	1.06E-06	7.94E-05	1.35E-05	1.38E-05	9.42E-06	5.21E-05	2.12E-03	2.18E-03
RECR	Project	MercuryIng	Adult	9.91E-07	6.25E-10	4.64E-05	2.82E-06	8.48E-06	1.53E-05	7.87E-05	2.40E-05	8.05E-06	1.78E-03	1.06E-06	7.87E-05	1.36E-05	1.37E-05	9.47E-06	4.92E-05	2.01E-03	2.07E-03
RECR	Closure	MercuryIng	Adult	9.91E-07	6.25E-10	4.64E-05	2.83E-06	8.48E-06	1.53E-05	7.87E-05	2.40E-05	8.05E-06	1.78E-03	1.06E-06	7.89E-05	1.36E-05	1.37E-05	9.47E-06	4.93E-05	2.01E-03	2.07E-03
RECR	Post Closure	MercuryIng	Adult	9.91E-07	6.25E-10	4.47E-05	2.72E-06	8.48E-06	1.53E-05	7.87E-05	2.40E-05	8.05E-06	1.71E-03	1.06E-06	7.79E-05	1.36E-05	1.36E-05	9.47E-06	4.74E-05	1.95E-03	2.00E-03
URBN	Base	MercuryIng	Adult	9.85E-07	6.21E-10	0.00E+00	0.00E+00	8.43E-06	0.00E+00	7.86E-05	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-06	0.00E+00	1.03E-04	1.12E-04
URBN	Project	MercuryIng	Adult	9.86E-07	6.22E-10	0.00E+00	0.00E+00	8.44E-06	0.00E+00	7.86E-05	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06	0.00E+00	1.03E-04	1.12E-04
URBN	Closure	MercuryIng	Adult	9.86E-07	6.22E-10	0.00E+00	0.00E+00	8.44E-06	0.00E+00	7.86E-05	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06	0.00E+00	1.03E-04	1.12E-04
URBN	Post Closure	MercuryIng	Adult	9.86E-07	6.22E-10	0.00E+00	0.00E+00	8.44E-06	0.00E+00	7.86E-05	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06	0.00E+00	1.03E-04	1.12E-04
COMM	Base	MercuryIng	Adult	9.85E-07	2.04E-07	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06	0.00E+00	0.00E+00	9.62E-06
COMM	Project	MercuryIng	Adult	9.86E-07	2.05E-07	0.00E+00	0.00E+00	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-06	0.00E+00	0.00E+00	9.63E-06
COMM	Closure	MercuryIng	Adult	9.86E-07	2.05E-07	0.00E+00	0.00E+00	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-06	0.00E+00	0.00E+00	9.63E-06
COMM	Post Closure	MercuryIng	Adult	9.86E-07	2.05E-07	0.00E+00	0.00E+00	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-06	0.00E+00	0.00E+00	9.63E-06
RESI	Project-Base	MercuryIng	Infant	5.94E-09	4.96E-13	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.05E-08
RESI	Closure-Base	MercuryIng	Infant	5.94E-09	4.96E-13	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.05E-08
RESI	Post Closure-Base	MercuryIng	Infant	5.94E-09	4.96E-13	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.05E-08
RECR	Project-Base	MercuryIng	Infant	5.94E-09	4.96E-13	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.05E-08
RECR	Closure-Base	MercuryIng	Infant	5.94E-09	4.96E-13	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.05E-08
RECR	Post Closure-Base	MercuryIng	Infant	5.94E-09	4.96E-13	0.00E+00	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.05E-08
URBN	Project-Base	MercuryIng	Infant	1.03E-09	8.59E-14	0.00E+00	0.00E+00	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-09	0.00E+00	0.00E+00	3.55E-09
URBN	Closure-Base	MercuryIng	Infant	1.03E-09	8.59E-14	0.00E+00	0.00E+00	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-09	0.00E+00	0.00E+00	3.55E-09
URBN	Post Closure-Base	MercuryIng	Infant	1.03E-09	8.59E-14	0.00E+00	0.00E+00	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-09	0.00E+00	0.00E+00	3.55E-09
COMM	Project-Base	MercuryIng	Infant	8.59E-10	2.36E-11	0.00E+00	0.00E+00	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-09	0.00E+00	0.00E+00	2.99E-09
COMM	Closure-Base	MercuryIng	Infant	8.59E-10	2.36E-11	0.00E+00	0.00E+00	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-09	0.00E+00	0.00E+00	2.99E-09
COMM	Post Closure-Base	MercuryIng	Infant	8.59E-10	2.36E-11	0.00E+00	0.00E+00	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-09	0.00E+00	0.00E+00	2.99E-09
RESI	Project-Base	MercuryIng	Toddler	2.37E-08	1.87E-12	0.00E+00	0.00E+00	2.04E-08	2.38E-08	1.35E-07	4.04E-08	1.62E-08	0.00E+00	9.20E-07	4.10E-07	9.31E-07	1.80E-07	4.42E-08	0.00E+00	2.66E-06	2.70E-06
RESI	Closure-Base	MercuryIng	Toddler	2.37E-08	1.87E-12	0.00E+00	0.00E+00	2.04E-08	2.38E-08	1.35E-07	4.04E-08	1.62E-08	0.00E+00	9.20E-07	4.10E-07	9.31E-07	1.80E-07	4.42E-08	0.00E+00	2.66E-06	2.70E-06
RESI	Post Closure-Base	MercuryIng	Toddler	2.37E-08	1.87E-12	0.00E+00	0.00E+00	2.04E-08	2.38E-08	1.35E-07	4.04E-08	1.62E-08	0.00E+00	9.20E-07	4.10E-07	9.31E-07	1.80E-07	4.42E-08	0.00E+00	2.66E-06	2.70E-06
RECR	Project-Base	MercuryIng	Toddler	2.37E-08	1.87E-12	0.00E+00	0.00E+00	2.04E-08	4.77E-09	2.70E-08	8.07E-09	3.23E-09	0.00E+00	1.84E-07	8.19E-08	1.86E-07	3.60E-08	4.42E-08	0.00E+00	5.31E-07	5.75E-07
RECR	Closure-Base	MercuryIng	Toddler	2.37E-08	1.87E-12	0.00E+00	0.00E+00	2.04E-08	4.77E-09	2.70E-08	8.07E-09	3.23E-09	0.00E+00	1.84E-07	8.19E-08	1.86E-07	3.60E-08	4.42E-08	0.00E+00	5.31E-07	5.75E-07
RECR	Post Closure-Base	MercuryIng	Toddler	2.37E-08	1.87E-12	0.00E+00	0.00E+00	2.04E-08	4.77E-09	2.70E-08	8.07E-09	3.23E-09	0.00E+00	1.84E-07	8.19E-08	1.86E-07	3.60E-08	4.42E-08	0.00E+00	5.31E-07	5.75E-07
URBN	Project-Base	MercuryIng	Toddler	4.11E-09	3.24E-13	0.00E+00	0.00E+00	3.53E-09	0.00E+00	4.67E-09	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-09	0.00E+00	6.07E-09	1.37E-08
URBN	Closure-Base	MercuryIng	Toddler	4.11E-09	3.24E-13	0.00E+00	0.00E+00	3.53E-09	0.00E+00	4.67E-09	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-09	0.00E+00	6.07E-09	1.37E-08
URBN	Post Closure-Base	MercuryIng	Toddler	4.11E-09	3.24E-13	0.00E+00	0.00E+00	3.53E-09	0.00E+00	4.67E-09	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-09	0.00E+00	6.07E-09	1.37E-08
COMM	Project-Base	MercuryIng	Toddler	3.44E-09	8.91E-11	0.00E+00	0.00E+00	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-09	0.00E+00	0.00E+00	6.48E-09
COMM	Closure-Base	MercuryIng	Toddler	3.44E-09	8.91E-11	0.00E+00	0.00E+00	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-09	0.00E+00	0.00E+00	6.48E-09

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
COMM	Post Closure-Base	MercuryIng	Toddler	3.44E-09	8.91E-11	0.00E+00	0.00E+00	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-09	0.00E+00	0.00E+00	6.48E-09
RESI	Project-Base	MercuryIng	Child	5.94E-09	3.27E-12	0.00E+00	0.00E+00	3.10E-08	5.05E-08	1.97E-07	6.19E-08	2.36E-08	0.00E+00	1.16E-06	5.17E-07	1.75E-06	2.44E-07	3.70E-08	0.00E+00	4.01E-06	4.05E-06
RESI	Closure-Base	MercuryIng	Child	5.94E-09	3.27E-12	0.00E+00	0.00E+00	3.10E-08	5.05E-08	1.97E-07	6.19E-08	2.36E-08	0.00E+00	1.16E-06	5.17E-07	1.75E-06	2.44E-07	3.70E-08	0.00E+00	4.01E-06	4.05E-06
RESI	Post Closure-Base	MercuryIng	Child	5.94E-09	3.27E-12	0.00E+00	0.00E+00	3.10E-08	5.05E-08	1.97E-07	6.19E-08	2.36E-08	0.00E+00	1.16E-06	5.17E-07	1.75E-06	2.44E-07	3.70E-08	0.00E+00	4.01E-06	4.05E-06
RECR	Project-Base	MercuryIng	Child	5.94E-09	3.27E-12	0.00E+00	0.00E+00	3.10E-08	1.01E-08	3.95E-08	1.24E-08	4.73E-09	0.00E+00	2.32E-07	1.03E-07	3.50E-07	4.88E-08	3.70E-08	0.00E+00	8.02E-07	8.39E-07
RECR	Closure-Base	MercuryIng	Child	5.94E-09	3.27E-12	0.00E+00	0.00E+00	3.10E-08	1.01E-08	3.95E-08	1.24E-08	4.73E-09	0.00E+00	2.32E-07	1.03E-07	3.50E-07	4.88E-08	3.70E-08	0.00E+00	8.02E-07	8.39E-07
RECR	Post Closure-Base	MercuryIng	Child	5.94E-09	3.27E-12	0.00E+00	0.00E+00	3.10E-08	1.01E-08	3.95E-08	1.24E-08	4.73E-09	0.00E+00	2.32E-07	1.03E-07	3.50E-07	4.88E-08	3.70E-08	0.00E+00	8.02E-07	8.39E-07
URBN	Project-Base	MercuryIng	Child	1.03E-09	5.66E-13	0.00E+00	0.00E+00	5.37E-09	0.00E+00	6.83E-09	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-09	0.00E+00	8.97E-09	1.54E-08
URBN	Closure-Base	MercuryIng	Child	1.03E-09	5.66E-13	0.00E+00	0.00E+00	5.37E-09	0.00E+00	6.83E-09	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-09	0.00E+00	8.97E-09	1.54E-08
URBN	Post Closure-Base	MercuryIng	Child	1.03E-09	5.66E-13	0.00E+00	0.00E+00	5.37E-09	0.00E+00	6.83E-09	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-09	0.00E+00	8.97E-09	1.54E-08
COMM	Project-Base	MercuryIng	Child	8.59E-10	1.56E-10	0.00E+00	0.00E+00	4.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-09	0.00E+00	0.00E+00	5.50E-09
COMM	Closure-Base	MercuryIng	Child	8.59E-10	1.56E-10	0.00E+00	0.00E+00	4.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-09	0.00E+00	0.00E+00	5.50E-09
COMM	Post Closure-Base	MercuryIng	Child	8.59E-10	1.56E-10	0.00E+00	0.00E+00	4.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-09	0.00E+00	0.00E+00	5.50E-09
RESI	Project-Base	MercuryIng	Adolescent	5.94E-09	3.52E-12	0.00E+00	0.00E+00	4.51E-08	5.45E-08	2.42E-07	8.72E-08	2.89E-08	0.00E+00	1.41E-06	6.29E-07	3.34E-06	4.06E-07	5.11E-08	0.00E+00	6.20E-06	6.25E-06
RESI	Closure-Base	MercuryIng	Adolescent	5.94E-09	3.52E-12	0.00E+00	0.00E+00	4.51E-08	5.45E-08	2.42E-07	8.72E-08	2.89E-08	0.00E+00	1.41E-06	6.29E-07	3.34E-06	4.06E-07	5.11E-08	0.00E+00	6.20E-06	6.25E-06
RESI	Post Closure-Base	MercuryIng	Adolescent	5.94E-09	3.52E-12	0.00E+00	0.00E+00	4.51E-08	5.45E-08	2.42E-07	8.72E-08	2.89E-08	0.00E+00	1.41E-06	6.29E-07	3.34E-06	4.06E-07	5.11E-08	0.00E+00	6.20E-06	6.25E-06
RECR	Project-Base	MercuryIng	Adolescent	5.94E-09	3.52E-12	0.00E+00	0.00E+00	4.51E-08	1.09E-08	4.83E-08	1.74E-08	5.79E-09	0.00E+00	2.82E-07	1.26E-07	6.68E-07	8.11E-08	5.11E-08	0.00E+00	1.24E-06	1.29E-06
RECR	Closure-Base	MercuryIng	Adolescent	5.94E-09	3.52E-12	0.00E+00	0.00E+00	4.51E-08	1.09E-08	4.83E-08	1.74E-08	5.79E-09	0.00E+00	2.82E-07	1.26E-07	6.68E-07	8.11E-08	5.11E-08	0.00E+00	1.24E-06	1.29E-06
RECR	Post Closure-Base	MercuryIng	Adolescent	5.94E-09	3.52E-12	0.00E+00	0.00E+00	4.51E-08	1.09E-08	4.83E-08	1.74E-08	5.79E-09	0.00E+00	2.82E-07	1.26E-07	6.68E-07	8.11E-08	5.11E-08	0.00E+00	1.24E-06	1.29E-06
URBN	Project-Base	MercuryIng	Adolescent	1.03E-09	6.09E-13	0.00E+00	0.00E+00	7.81E-09	0.00E+00	8.36E-09	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-09	0.00E+00	1.14E-08	2.02E-08
URBN	Closure-Base	MercuryIng	Adolescent	1.03E-09	6.09E-13	0.00E+00	0.00E+00	7.81E-09	0.00E+00	8.36E-09	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-09	0.00E+00	1.14E-08	2.02E-08
URBN	Post Closure-Base	MercuryIng	Adolescent	1.03E-09	6.09E-13	0.00E+00	0.00E+00	7.81E-09	0.00E+00	8.36E-09	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-09	0.00E+00	1.14E-08	2.02E-08
COMM	Project-Base	MercuryIng	Adolescent	8.59E-10	1.67E-10	0.00E+00	0.00E+00	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-09	0.00E+00	0.00E+00	7.55E-09
COMM	Closure-Base	MercuryIng	Adolescent	8.59E-10	1.67E-10	0.00E+00	0.00E+00	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-09	0.00E+00	0.00E+00	7.55E-09
COMM	Post Closure-Base	MercuryIng	Adolescent	8.59E-10	1.67E-10	0.00E+00	0.00E+00	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-09	0.00E+00	0.00E+00	7.55E-09
RESI	Project-Base	MercuryIng	Adult	5.94E-09	3.75E-12	0.00E+00	0.00E+00	5.08E-08	5.23E-08	2.76E-07	7.23E-08	3.30E-08	0.00E+00	1.47E-06	6.55E-07	3.87E-06	4.11E-07	5.68E-08	0.00E+00	6.84E-06	6.90E-06
RESI	Closure-Base	MercuryIng	Adult	5.94E-09	3.75E-12	0.00E+00	0.00E+00	5.08E-08	5.23E-08	2.76E-07	7.23E-08	3.30E-08	0.00E+00	1.47E-06	6.55E-07	3.87E-06	4.11E-07	5.68E-08	0.00E+00	6.84E-06	6.90E-06
RESI	Post Closure-Base	MercuryIng	Adult	5.94E-09	3.75E-12	0.00E+00	0.00E+00	5.08E-08	5.23E-08	2.76E-07	7.23E-08	3.30E-08	0.00E+00	1.47E-06	6.55E-07	3.87E-06	4.11E-07	5.68E-08	0.00E+00	6.84E-06	6.90E-06
RECR	Project-Base	MercuryIng	Adult	5.94E-09	3.75E-12	0.00E+00	0.00E+00	5.08E-08	1.05E-08	5.52E-08	1.45E-08	6.61E-09	0.00E+00	2.94E-07	1.31E-07	7.75E-07	8.22E-08	5.68E-08	0.00E+00	1.37E-06	1.43E-06
RECR	Closure-Base	MercuryIng	Adult	5.94E-09	3.75E-12	0.00E+00	0.00E+00	5.08E-08	1.05E-08	5.52E-08	1.45E-08	6.61E-09	0.00E+00	2.94E-07	1.31E-07	7.75E-07	8.22E-08	5.68E-08	0.00E+00	1.37E-06	1.43E-06
RECR	Post Closure-Base	MercuryIng	Adult	5.94E-09	3.75E-12	0.00E+00	0.00E+00	5.08E-08	1.05E-08	5.52E-08	1.45E-08	6.61E-09	0.00E+00	2.94E-07	1.31E-07	7.75E-07	8.22E-08	5.68E-08	0.00E+00	1.37E-06	1.43E-06
URBN	Project-Base	MercuryIng	Adult	1.03E-09	6.48E-13	0.00E+00	0.00E+00	8.79E-09	0.00E+00	9.55E-09	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-09	0.00E+00	1.20E-08	2.19E-08
URBN	Closure-Base	MercuryIng	Adult	1.03E-09	6.48E-13	0.00E+00	0.00E+00	8.79E-09	0.00E+00	9.55E-09	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-09	0.00E+00	1.20E-08	2.19E-08
URBN	Post Closure-Base	MercuryIng	Adult	1.03E-09	6.48E-13	0.00E+00	0.00E+00	8.79E-09	0.00E+00	9.55E-09	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-09	0.00E+00	1.20E-08	2.19E-08
COMM	Project-Base	MercuryIng	Adult	8.59E-10	1.78E-10	0.00E+00	0.00E+00	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-09	0.00E+00	0.00E+00	8.39E-09
COMM	Closure-Base	MercuryIng	Adult	8.59E-10	1.78E-10	0.00E+00	0.00E+00	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-09	0.00E+00	0.00E+00	8.39E-09
COMM	Post Closure-Base	MercuryIng	Adult	8.59E-10	1.78E-10	0.00E+00	0.00E+00	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-09	0.00E+00	0.00E+00	8.39E-09

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
MercuryMethyl																					
RESI	Base	MercuryMethyl	Infant	1.50E-08	1.25E-12	1.09E-06	0.00E+00	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-08	1.09E-06	0.00E+00	1.14E-06
RESI	Project	MercuryMethyl	Infant	1.51E-08	1.26E-12	1.03E-06	0.00E+00	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-08	1.03E-06	0.00E+00	1.08E-06
RESI	Closure	MercuryMethyl	Infant	1.51E-08	1.26E-12	1.03E-06	0.00E+00	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-08	1.03E-06	0.00E+00	1.08E-06
RESI	Post Closure	MercuryMethyl	Infant	1.51E-08	1.26E-12	9.93E-07	0.00E+00	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-08	9.93E-07	0.00E+00	1.05E-06
RECR	Base	MercuryMethyl	Infant	1.50E-08	1.25E-12	1.09E-06	0.00E+00	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-08	1.09E-06	0.00E+00	1.14E-06
RECR	Project	MercuryMethyl	Infant	1.51E-08	1.26E-12	1.03E-06	0.00E+00	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-08	1.03E-06	0.00E+00	1.08E-06
RECR	Closure	MercuryMethyl	Infant	1.51E-08	1.26E-12	1.03E-06	0.00E+00	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-08	1.03E-06	0.00E+00	1.08E-06
RECR	Post Closure	MercuryMethyl	Infant	1.51E-08	1.26E-12	9.93E-07	0.00E+00	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-08	9.93E-07	0.00E+00	1.05E-06
URBN	Base	MercuryMethyl	Infant	1.50E-08	1.25E-12	0.00E+00	0.00E+00	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-08	0.00E+00	0.00E+00	5.18E-08
URBN	Project	MercuryMethyl	Infant	1.50E-08	1.26E-12	0.00E+00	0.00E+00	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-08	0.00E+00	0.00E+00	5.19E-08
URBN	Closure	MercuryMethyl	Infant	1.50E-08	1.26E-12	0.00E+00	0.00E+00	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-08	0.00E+00	0.00E+00	5.19E-08
URBN	Post Closure	MercuryMethyl	Infant	1.50E-08	1.26E-12	0.00E+00	0.00E+00	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-08	0.00E+00	0.00E+00	5.19E-08
COMM	Base	MercuryMethyl	Infant	1.50E-08	4.13E-10	0.00E+00	0.00E+00	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-08	0.00E+00	0.00E+00	5.22E-08
COMM	Project	MercuryMethyl	Infant	1.50E-08	4.13E-10	0.00E+00	0.00E+00	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-08	0.00E+00	0.00E+00	5.23E-08
COMM	Closure	MercuryMethyl	Infant	1.50E-08	4.13E-10	0.00E+00	0.00E+00	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-08	0.00E+00	0.00E+00	5.23E-08
COMM	Post Closure	MercuryMethyl	Infant	1.50E-08	4.13E-10	0.00E+00	0.00E+00	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-08	0.00E+00	0.00E+00	5.23E-08
RESI	Base	MercuryMethyl	Toddler	6.00E-08	4.73E-12	2.18E-06	3.65E-07	5.16E-08	1.30E-06	3.72E-06	1.30E-06	3.81E-07	9.71E-03	9.93E-06	7.45E-04	4.87E-05	2.71E-04	1.12E-07	2.55E-06	1.08E-02	1.08E-02
RESI	Project	MercuryMethyl	Toddler	6.04E-08	4.76E-12	2.06E-06	3.44E-07	5.19E-08	1.30E-06	3.73E-06	1.30E-06	3.81E-07	9.16E-03	9.96E-06	7.38E-04	4.89E-05	2.69E-04	1.12E-07	2.40E-06	1.02E-02	1.02E-02
RESI	Closure	MercuryMethyl	Toddler	6.04E-08	4.76E-12	2.06E-06	3.45E-07	5.19E-08	1.30E-06	3.73E-06	1.30E-06	3.81E-07	9.17E-03	9.96E-06	7.40E-04	4.89E-05	2.70E-04	1.12E-07	2.41E-06	1.02E-02	1.03E-02
RESI	Post Closure	MercuryMethyl	Toddler	6.04E-08	4.76E-12	1.99E-06	3.32E-07	5.19E-08	1.30E-06	3.73E-06	1.30E-06	3.81E-07	8.83E-03	9.96E-06	7.31E-04	4.89E-05	2.67E-04	1.12E-07	2.32E-06	9.89E-03	9.89E-03
RECR	Base	MercuryMethyl	Toddler	6.00E-08	4.73E-12	2.18E-06	3.65E-07	5.16E-08	2.60E-07	7.45E-07	2.59E-07	7.62E-08	4.80E-03	1.99E-06	1.49E-04	9.74E-06	5.43E-05	1.12E-07	2.55E-06	5.02E-03	5.02E-03
RECR	Project	MercuryMethyl	Toddler	6.04E-08	4.76E-12	2.06E-06	3.44E-07	5.19E-08	2.60E-07	7.45E-07	2.60E-07	7.63E-08	4.53E-03	1.99E-06	1.48E-04	9.79E-06	5.39E-05	1.12E-07	2.40E-06	4.75E-03	4.75E-03
RECR	Closure	MercuryMethyl	Toddler	6.04E-08	4.76E-12	2.06E-06	3.45E-07	5.19E-08	2.60E-07	7.45E-07	2.60E-07	7.63E-08	4.54E-03	1.99E-06	1.48E-04	9.79E-06	5.40E-05	1.12E-07	2.41E-06	4.76E-03	4.76E-03
RECR	Post Closure	MercuryMethyl	Toddler	6.04E-08	4.76E-12	1.99E-06	3.32E-07	5.19E-08	2.60E-07	7.45E-07	2.60E-07	7.63E-08	4.37E-03	1.99E-06	1.46E-04	9.79E-06	5.34E-05	1.12E-07	2.32E-06	4.58E-03	4.58E-03
URBN	Base	MercuryMethyl	Toddler	6.00E-08	4.73E-12	0.00E+00	0.00E+00	5.16E-08	0.00E+00	7.45E-07	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07	0.00E+00	1.00E-06	1.12E-06
URBN	Project	MercuryMethyl	Toddler	6.01E-08	4.74E-12	0.00E+00	0.00E+00	5.17E-08	0.00E+00	7.45E-07	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07	0.00E+00	1.00E-06	1.12E-06
URBN	Closure	MercuryMethyl	Toddler	6.01E-08	4.74E-12	0.00E+00	0.00E+00	5.17E-08	0.00E+00	7.45E-07	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07	0.00E+00	1.00E-06	1.12E-06
URBN	Post Closure	MercuryMethyl	Toddler	6.01E-08	4.74E-12	0.00E+00	0.00E+00	5.17E-08	0.00E+00	7.45E-07	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07	0.00E+00	1.00E-06	1.12E-06
COMM	Base	MercuryMethyl	Toddler	6.00E-08	1.56E-09	0.00E+00	0.00E+00	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	1.13E-07
COMM	Project	MercuryMethyl	Toddler	6.01E-08	1.56E-09	0.00E+00	0.00E+00	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	1.13E-07
COMM	Closure	MercuryMethyl	Toddler	6.01E-08	1.56E-09	0.00E+00	0.00E+00	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	1.13E-07
COMM	Post Closure	MercuryMethyl	Toddler	6.01E-08	1.56E-09	0.00E+00	0.00E+00	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	1.13E-07
RESI	Base	MercuryMethyl	Child	1.50E-08	8.27E-12	2.91E-06	3.94E-07	7.84E-08	2.76E-06	5.45E-06	1.99E-06	5.57E-07	1.61E-02	1.25E-05	9.41E-04	9.16E-05	3.68E-04	9.34E-08	3.31E-06	1.75E-02	1.75E-02
RESI	Project	MercuryMethyl	Child	1.51E-08	8.31E-12	2.75E-06	3.72E-07	7.88E-08	2.76E-06	5.45E-06	1.99E-06	5.58E-07	1.52E-02	1.26E-05	9.32E-04	9.21E-05	3.66E-04	9.39E-08	3.12E-06	1.66E-02	1.66E-02
RESI	Closure	MercuryMethyl	Child	1.51E-08	8.31E-12	2.75E-06	3.72E-07	7.88E-08	2.76E-06	5.45E-06	1.99E-06	5.58E-07	1.52E-02	1.26E-05	9.34E-04	9.21E-05	3.66E-04	9.39E-08	3.12E-06	1.66E-02	1.66E-02
RESI	Post Closure	MercuryMethyl	Child	1.51E-08	8.31E-12	2.65E-06	3.58E-07	7.88E-08	2.76E-06	5.45E-06	1.99E-06	5.58E-07	1.47E-02	1.26E-05	9.23E-04	9.21E-05	3.62E-04	9.39E-08	3.01E-06	1.61E-02	1.61E-02
RECR	Base	MercuryMethyl	Child	1.50E-08	8.27E-12	2.91E-06	3.94E-07	7.84E-08	5.52E-07	1.09E-06	3.98E-07	1.11E-07	6.83E-03	2.51E-06	1.88E-04	1.83E-05	7.37E-05	9.34E-08	3.31E-06	7.12E-03	7.12E-03
RECR	Project	MercuryMethyl	Child	1.51E-08	8.31E-12	2.75E-06	3.72E-07	7.88E-08	5.52E-07	1.09E-06	3.98E-07	1.12E-07	6.45E-03	2.51E-06	1.86E-04	1.84E-05	7.31E-05	9.39E-08	3.12E-06	6.73E-03	6.73E-03
RECR	Closure	MercuryMethyl	Child	1.51E-08	8.31E-12	2.75E-06	3.72E-07	7.88E-08	5.52E-07	1.09E-06	3.98E-07	1.12E-07	6.46E-03	2.51E-06	1.87E-04	1.84E-05	7.33E-05	9.39E-08	3.12E-06	6.74E-03	6.74E-03
RECR	Post Closure	MercuryMethyl	Child	1.51E-08	8.31E-12	2.65E-06	3.58E-07	7.88E-08	5.52E-07	1.09E-06	3.98E-07	1.12E-07	6.21E-03	2.51E-06	1.85E-04	1.84E-05	7.25E-05	9.39E-08	3.01E-06	6.49E-03	6.50E-03
URBN	Base	MercuryMethyl	Child	1.50E-08	8.27E-12	0.00E+00	0.00E+00	7.84E-08	0.00E+00	1.09E-06	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-08	0.00E+00	1.49E-06	1.58E-06
URBN	Project	MercuryMethyl	Child	1.50E-08	8.27E-12	0.00E+00	0.00E+00	7.85E-08	0.00E+00	1.09E-06	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-08	0.00E+00	1.49E-06	1.58E-06
URBN	Closure	MercuryMethyl	Child	1.50E-08	8.27E-12	0.00E+00	0.00E+00	7.85E-08	0.00E+00	1.09E-06	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-08	0.00E+00	1.49E-06	1.58E-06
URBN	Post Closure	MercuryMethyl	Child	1.50E-08	8.27E-12	0.00E+00	0.00E+00	7.85E-08	0.00E+00	1.09E-06	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-08	0.00E+00	1.49E-06	1.58E-06
COMM	Base	MercuryMethyl	Child	1.50E-08	2.72E-09	0.00E+00	0.00E+00	7.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-08	0.00E+00	0.00E+00	9.61E-08
COMM	Project	MercuryMethyl	Child	1.50E-08	2.72E-09	0.00E+00	0.00E+00	7.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-08	0.00E+00	0.00E+00	9.62E-08
COMM	Closure	MercuryMethyl	Child	1.50E-08	2.72E-09	0.00E+00	0.00E+00	7.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-08	0.00E+00	0.00E+00	9.62E-08
COMM	Post Closure	MercuryMethyl	Child	1.50E-08	2.72E-09	0.00E+00	0.00E+00	7.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-08	0.00E+00	0.00E+00	9.62E-08
RESI	Base	MercuryMethyl	Adolescent	1.50E-08	8.89E-12	3.64E-06	3.53E-07	1.14E-07	2.98E-06	6.67E-06	2.80E-06	6.82E-07	1.94E-02	1.52E-05	1.14E-03	1.75E-04	6.12E-04	1.29E-07	3.99E-06	2.14E-02	2.14E-02
RESI	Project	MercuryMethyl	Adolescent	1.51E-08	8.95E-12	3.43E-06	3.33E-07	1.15E-07	2.98E-06	6.67E-06	2.81E-06	6.83E-07	1.83E-02	1.53E-05	1.13E-03	1.75E-04	6.07E-04	1.30E-07	3.77E-06	2.03E-02	2.03E-02
RESI	Closure	MercuryMethyl	Adolescent	1.51E-08	8.95E-12	3.44E-06	3.33E-07	1.15E-07	2.98E-06	6.67E-06	2.81E-06	6.83E-07	1.83E-02	1.53E-05	1.14E-03	1.75E-04	6.08E-04	1.30E-07	3.77E-06	2.03E-02	2.03E-02

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Post Closure	MercuryMethyl	Adolescent	1.51E-08	8.95E-12	3.31E-06	3.21E-07	1.15E-07	2.98E-06	6.67E-06	2.81E-06	6.83E-07	1.77E-02	1.53E-05	1.12E-03	1.75E-04	6.02E-04	1.30E-07	3.63E-06	1.96E-02	1.96E-02
RECR	Base	MercuryMethyl	Adolescent	1.50E-08	8.89E-12	3.64E-06	3.53E-07	1.14E-07	5.95E-07	1.33E-06	5.61E-07	1.36E-07	1.07E-02	3.05E-06	2.29E-04	3.49E-05	1.22E-04	1.29E-07	3.99E-06	1.11E-02	1.11E-02
RECR	Project	MercuryMethyl	Adolescent	1.51E-08	8.95E-12	3.43E-06	3.33E-07	1.15E-07	5.95E-07	1.33E-06	5.61E-07	1.37E-07	1.01E-02	3.06E-06	2.27E-04	3.51E-05	1.21E-04	1.30E-07	3.77E-06	1.05E-02	1.05E-02
RECR	Closure	MercuryMethyl	Adolescent	1.51E-08	8.95E-12	3.44E-06	3.33E-07	1.15E-07	5.95E-07	1.33E-06	5.61E-07	1.37E-07	1.01E-02	3.06E-06	2.27E-04	3.51E-05	1.22E-04	1.30E-07	3.77E-06	1.05E-02	1.05E-02
RECR	Post Closure	MercuryMethyl	Adolescent	1.51E-08	8.95E-12	3.31E-06	3.21E-07	1.15E-07	5.95E-07	1.33E-06	5.61E-07	1.37E-07	9.71E-03	3.06E-06	2.24E-04	3.51E-05	1.20E-04	1.30E-07	3.63E-06	1.01E-02	1.01E-02
URBN	Base	MercuryMethyl	Adolescent	1.50E-08	8.89E-12	0.00E+00	0.00E+00	1.14E-07	0.00E+00	1.33E-06	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-07	0.00E+00	1.89E-06	2.02E-06
URBN	Project	MercuryMethyl	Adolescent	1.50E-08	8.90E-12	0.00E+00	0.00E+00	1.14E-07	0.00E+00	1.33E-06	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-07	0.00E+00	1.89E-06	2.02E-06
URBN	Closure	MercuryMethyl	Adolescent	1.50E-08	8.90E-12	0.00E+00	0.00E+00	1.14E-07	0.00E+00	1.33E-06	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-07	0.00E+00	1.89E-06	2.02E-06
URBN	Post Closure	MercuryMethyl	Adolescent	1.50E-08	8.90E-12	0.00E+00	0.00E+00	1.14E-07	0.00E+00	1.33E-06	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-07	0.00E+00	1.89E-06	2.02E-06
COMM	Base	MercuryMethyl	Adolescent	1.50E-08	2.93E-09	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07	0.00E+00	0.00E+00	1.32E-07
COMM	Project	MercuryMethyl	Adolescent	1.50E-08	2.93E-09	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07	0.00E+00	0.00E+00	1.32E-07
COMM	Closure	MercuryMethyl	Adolescent	1.50E-08	2.93E-09	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07	0.00E+00	0.00E+00	1.32E-07
COMM	Post Closure	MercuryMethyl	Adolescent	1.50E-08	2.93E-09	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07	0.00E+00	0.00E+00	1.32E-07
RESI	Base	MercuryMethyl	Adult	1.50E-08	9.46E-12	5.46E-06	3.32E-07	1.28E-07	2.86E-06	7.61E-06	2.32E-06	7.79E-07	1.94E-02	1.59E-05	1.19E-03	2.03E-04	6.20E-04	1.43E-07	5.79E-06	2.15E-02	2.15E-02
RESI	Project	MercuryMethyl	Adult	1.51E-08	9.52E-12	5.15E-06	3.13E-07	1.29E-07	2.86E-06	7.62E-06	2.32E-06	7.80E-07	1.83E-02	1.59E-05	1.18E-03	2.04E-04	6.16E-04	1.44E-07	5.46E-06	2.03E-02	2.04E-02
RESI	Closure	MercuryMethyl	Adult	1.51E-08	9.52E-12	5.16E-06	3.14E-07	1.29E-07	2.86E-06	7.62E-06	2.32E-06	7.80E-07	1.83E-02	1.59E-05	1.18E-03	2.04E-04	6.17E-04	1.44E-07	5.47E-06	2.04E-02	2.04E-02
RESI	Post Closure	MercuryMethyl	Adult	1.51E-08	9.52E-12	4.96E-06	3.02E-07	1.29E-07	2.86E-06	7.62E-06	2.32E-06	7.80E-07	1.77E-02	1.59E-05	1.17E-03	2.04E-04	6.10E-04	1.44E-07	5.27E-06	1.97E-02	1.97E-02
RECR	Base	MercuryMethyl	Adult	1.50E-08	9.46E-12	5.46E-06	3.32E-07	1.28E-07	5.72E-07	1.52E-06	4.64E-07	1.56E-07	1.07E-02	3.18E-06	2.38E-04	4.05E-05	1.24E-04	1.43E-07	5.79E-06	1.11E-02	1.11E-02
RECR	Project	MercuryMethyl	Adult	1.51E-08	9.52E-12	5.15E-06	3.13E-07	1.29E-07	5.72E-07	1.52E-06	4.65E-07	1.56E-07	1.01E-02	3.18E-06	2.36E-04	4.07E-05	1.23E-04	1.44E-07	5.46E-06	1.05E-02	1.05E-02
RECR	Closure	MercuryMethyl	Adult	1.51E-08	9.52E-12	5.16E-06	3.14E-07	1.29E-07	5.72E-07	1.52E-06	4.65E-07	1.56E-07	1.01E-02	3.18E-06	2.37E-04	4.07E-05	1.23E-04	1.44E-07	5.47E-06	1.05E-02	1.05E-02
RECR	Post Closure	MercuryMethyl	Adult	1.51E-08	9.52E-12	4.96E-06	3.02E-07	1.29E-07	5.72E-07	1.52E-06	4.65E-07	1.56E-07	9.71E-03	3.18E-06	2.34E-04	4.07E-05	1.22E-04	1.44E-07	5.27E-06	1.01E-02	1.01E-02
URBN	Base	MercuryMethyl	Adult	1.50E-08	9.46E-12	0.00E+00	0.00E+00	1.28E-07	0.00E+00	1.52E-06	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-07	0.00E+00	1.99E-06	2.13E-06
URBN	Project	MercuryMethyl	Adult	1.50E-08	9.47E-12	0.00E+00	0.00E+00	1.29E-07	0.00E+00	1.52E-06	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07	0.00E+00	1.99E-06	2.13E-06
URBN	Closure	MercuryMethyl	Adult	1.50E-08	9.47E-12	0.00E+00	0.00E+00	1.29E-07	0.00E+00	1.52E-06	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07	0.00E+00	1.99E-06	2.13E-06
URBN	Post Closure	MercuryMethyl	Adult	1.50E-08	9.47E-12	0.00E+00	0.00E+00	1.29E-07	0.00E+00	1.52E-06	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07	0.00E+00	1.99E-06	2.13E-06
COMM	Base	MercuryMethyl	Adult	1.50E-08	3.11E-09	0.00E+00	0.00E+00	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-07	0.00E+00	0.00E+00	1.47E-07
COMM	Project	MercuryMethyl	Adult	1.50E-08	3.12E-09	0.00E+00	0.00E+00	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-07	0.00E+00	0.00E+00	1.47E-07
COMM	Closure	MercuryMethyl	Adult	1.50E-08	3.12E-09	0.00E+00	0.00E+00	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-07	0.00E+00	0.00E+00	1.47E-07
COMM	Post Closure	MercuryMethyl	Adult	1.50E-08	3.12E-09	0.00E+00	0.00E+00	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-07	0.00E+00	0.00E+00	1.47E-07
RESI	Project-Base	MercuryMethyl	Infant	9.04E-11	7.56E-15	0.00E+00	0.00E+00	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-10	0.00E+00	0.00E+00	3.12E-10
RESI	Closure-Base	MercuryMethyl	Infant	9.04E-11	7.56E-15	0.00E+00	0.00E+00	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-10	0.00E+00	0.00E+00	3.12E-10
RESI	Post Closure-Base	MercuryMethyl	Infant	9.04E-11	7.56E-15	0.00E+00	0.00E+00	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-10	0.00E+00	0.00E+00	3.12E-10
RECR	Project-Base	MercuryMethyl	Infant	9.04E-11	7.56E-15	0.00E+00	0.00E+00	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-10	0.00E+00	0.00E+00	3.12E-10
RECR	Closure-Base	MercuryMethyl	Infant	9.04E-11	7.56E-15	0.00E+00	0.00E+00	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-10	0.00E+00	0.00E+00	3.12E-10
RECR	Post Closure-Base	MercuryMethyl	Infant	9.04E-11	7.56E-15	0.00E+00	0.00E+00	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-10	0.00E+00	0.00E+00	3.12E-10
URBN	Project-Base	MercuryMethyl	Infant	1.56E-11	1.31E-15	0.00E+00	0.00E+00	3.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-11	0.00E+00	0.00E+00	5.41E-11
URBN	Closure-Base	MercuryMethyl	Infant	1.56E-11	1.31E-15	0.00E+00	0.00E+00	3.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-11	0.00E+00	0.00E+00	5.41E-11
URBN	Post Closure-Base	MercuryMethyl	Infant	1.56E-11	1.31E-15	0.00E+00	0.00E+00	3.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-11	0.00E+00	0.00E+00	5.41E-11
COMM	Project-Base	MercuryMethyl	Infant	1.31E-11	3.60E-13	0.00E+00	0.00E+00	3.21E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-11	0.00E+00	0.00E+00	4.55E-11
COMM	Closure-Base	MercuryMethyl	Infant	1.31E-11	3.60E-13	0.00E+00	0.00E+00	3.21E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-11	0.00E+00	0.00E+00	4.55E-11
COMM	Post Closure-Base	MercuryMethyl	Infant	1.31E-11	3.60E-13	0.00E+00	0.00E+00	3.21E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-11	0.00E+00	0.00E+00	4.55E-11

Table 1-2: Estimated Daily Intakes (EDI)

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Surface_water SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total Diet [mg/day]	Total Total [mg/day]
RESI	Project-Base	MercuryMethyl	Toddler	3.62E-10	2.85E-14	0.00E+00	0.00E+00	3.11E-10	8.90E-10	2.61E-09	7.82E-10	3.13E-10	0.00E+00	2.76E-06	1.23E-06	2.79E-06	1.62E-06	6.73E-10	0.00E+00	8.41E-06	8.41E-06
RESI	Closure-Base	MercuryMethyl	Toddler	3.62E-10	2.85E-14	0.00E+00	0.00E+00	3.11E-10	8.90E-10	2.61E-09	7.82E-10	3.13E-10	0.00E+00	2.76E-06	1.23E-06	2.79E-06	1.62E-06	6.73E-10	0.00E+00	8.41E-06	8.41E-06
RESI	Post Closure-Base	MercuryMethyl	Toddler	3.62E-10	2.85E-14	0.00E+00	0.00E+00	3.11E-10	8.90E-10	2.61E-09	7.82E-10	3.13E-10	0.00E+00	2.76E-06	1.23E-06	2.79E-06	1.62E-06	6.73E-10	0.00E+00	8.41E-06	8.41E-06
RECR	Project-Base	MercuryMethyl	Toddler	3.62E-10	2.85E-14	0.00E+00	0.00E+00	3.11E-10	1.78E-10	5.23E-10	1.56E-10	6.26E-11	0.00E+00	5.52E-07	2.46E-07	5.59E-07	3.24E-07	6.73E-10	0.00E+00	1.68E-06	1.68E-06
RECR	Closure-Base	MercuryMethyl	Toddler	3.62E-10	2.85E-14	0.00E+00	0.00E+00	3.11E-10	1.78E-10	5.23E-10	1.56E-10	6.26E-11	0.00E+00	5.52E-07	2.46E-07	5.59E-07	3.24E-07	6.73E-10	0.00E+00	1.68E-06	1.68E-06
RECR	Post Closure-Base	MercuryMethyl	Toddler	3.62E-10	2.85E-14	0.00E+00	0.00E+00	3.11E-10	1.78E-10	5.23E-10	1.56E-10	6.26E-11	0.00E+00	5.52E-07	2.46E-07	5.59E-07	3.24E-07	6.73E-10	0.00E+00	1.68E-06	1.68E-06
URBN	Project-Base	MercuryMethyl	Toddler	6.26E-11	4.93E-15	0.00E+00	0.00E+00	5.38E-11	0.00E+00	9.04E-11	2.70E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-10	0.00E+00	1.17E-10	2.34E-10
URBN	Closure-Base	MercuryMethyl	Toddler	6.26E-11	4.93E-15	0.00E+00	0.00E+00	5.38E-11	0.00E+00	9.04E-11	2.70E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-10	0.00E+00	1.17E-10	2.34E-10
URBN	Post Closure-Base	MercuryMethyl	Toddler	6.26E-11	4.93E-15	0.00E+00	0.00E+00	5.38E-11	0.00E+00	9.04E-11	2.70E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-10	0.00E+00	1.17E-10	2.34E-10
COMM	Project-Base	MercuryMethyl	Toddler	5.23E-11	1.36E-12	0.00E+00	0.00E+00	4.50E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-11	0.00E+00	0.00E+00	9.87E-11
COMM	Closure-Base	MercuryMethyl	Toddler	5.23E-11	1.36E-12	0.00E+00	0.00E+00	4.50E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-11	0.00E+00	0.00E+00	9.87E-11
COMM	Post Closure-Base	MercuryMethyl	Toddler	5.23E-11	1.36E-12	0.00E+00	0.00E+00	4.50E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-11	0.00E+00	0.00E+00	9.87E-11
RESI	Project-Base	MercuryMethyl	Child	9.04E-11	4.98E-14	0.00E+00	0.00E+00	4.72E-10	1.89E-09	3.82E-09	1.20E-09	4.58E-10	0.00E+00	3.48E-06	1.55E-06	5.26E-06	2.20E-06	5.63E-10	0.00E+00	1.25E-05	1.25E-05
RESI	Closure-Base	MercuryMethyl	Child	9.04E-11	4.98E-14	0.00E+00	0.00E+00	4.72E-10	1.89E-09	3.82E-09	1.20E-09	4.58E-10	0.00E+00	3.48E-06	1.55E-06	5.26E-06	2.20E-06	5.63E-10	0.00E+00	1.25E-05	1.25E-05
RESI	Post Closure-Base	MercuryMethyl	Child	9.04E-11	4.98E-14	0.00E+00	0.00E+00	4.72E-10	1.89E-09	3.82E-09	1.20E-09	4.58E-10	0.00E+00	3.48E-06	1.55E-06	5.26E-06	2.20E-06	5.63E-10	0.00E+00	1.25E-05	1.25E-05
RECR	Project-Base	MercuryMethyl	Child	9.04E-11	4.98E-14	0.00E+00	0.00E+00	4.72E-10	3.77E-10	7.64E-10	2.40E-10	9.15E-11	0.00E+00	6.97E-07	3.10E-07	1.05E-06	4.40E-07	5.63E-10	0.00E+00	2.50E-06	2.50E-06
RECR	Closure-Base	MercuryMethyl	Child	9.04E-11	4.98E-14	0.00E+00	0.00E+00	4.72E-10	3.77E-10	7.64E-10	2.40E-10	9.15E-11	0.00E+00	6.97E-07	3.10E-07	1.05E-06	4.40E-07	5.63E-10	0.00E+00	2.50E-06	2.50E-06
RECR	Post Closure-Base	MercuryMethyl	Child	9.04E-11	4.98E-14	0.00E+00	0.00E+00	4.72E-10	3.77E-10	7.64E-10	2.40E-10	9.15E-11	0.00E+00	6.97E-07	3.10E-07	1.05E-06	4.40E-07	5.63E-10	0.00E+00	2.50E-06	2.50E-06
URBN	Project-Base	MercuryMethyl	Child	1.56E-11	8.62E-15	0.00E+00	0.00E+00	8.17E-11	0.00E+00	1.32E-10	4.15E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-11	0.00E+00	1.74E-10	2.71E-10
URBN	Closure-Base	MercuryMethyl	Child	1.56E-11	8.62E-15	0.00E+00	0.00E+00	8.17E-11	0.00E+00	1.32E-10	4.15E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-11	0.00E+00	1.74E-10	2.71E-10
URBN	Post Closure-Base	MercuryMethyl	Child	1.56E-11	8.62E-15	0.00E+00	0.00E+00	8.17E-11	0.00E+00	1.32E-10	4.15E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-11	0.00E+00	1.74E-10	2.71E-10
COMM	Project-Base	MercuryMethyl	Child	1.31E-11	2.37E-12	0.00E+00	0.00E+00	6.83E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-11	0.00E+00	0.00E+00	8.38E-11
COMM	Closure-Base	MercuryMethyl	Child	1.31E-11	2.37E-12	0.00E+00	0.00E+00	6.83E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-11	0.00E+00	0.00E+00	8.38E-11
COMM	Post Closure-Base	MercuryMethyl	Child	1.31E-11	2.37E-12	0.00E+00	0.00E+00	6.83E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-11	0.00E+00	0.00E+00	8.38E-11
RESI	Project-Base	MercuryMethyl	Adolescent	9.04E-11	5.36E-14	0.00E+00	0.00E+00	6.87E-10	2.03E-09	4.68E-09	1.69E-09	5.60E-10	0.00E+00	4.24E-06	1.89E-06	1.00E-05	3.65E-06	7.78E-10	0.00E+00	1.98E-05	1.98E-05
RESI	Closure-Base	MercuryMethyl	Adolescent	9.04E-11	5.36E-14	0.00E+00	0.00E+00	6.87E-10	2.03E-09	4.68E-09	1.69E-09	5.60E-10	0.00E+00	4.24E-06	1.89E-06	1.00E-05	3.65E-06	7.78E-10	0.00E+00	1.98E-05	1.98E-05
RESI	Post Closure-Base	MercuryMethyl	Adolescent	9.04E-11	5.36E-14	0.00E+00	0.00E+00	6.87E-10	2.03E-09	4.68E-09	1.69E-09	5.60E-10	0.00E+00	4.24E-06	1.89E-06	1.00E-05	3.65E-06	7.78E-10	0.00E+00	1.98E-05	1.98E-05
RECR	Project-Base	MercuryMethyl	Adolescent	9.04E-11	5.36E-14	0.00E+00	0.00E+00	6.87E-10	4.07E-10	9.36E-10	3.38E-10	1.12E-10	0.00E+00	8.47E-07	3.77E-07	2.00E-06	7.30E-07	7.78E-10	0.00E+00	3.96E-06	3.96E-06
RECR	Closure-Base	MercuryMethyl	Adolescent	9.04E-11	5.36E-14	0.00E+00	0.00E+00	6.87E-10	4.07E-10	9.36E-10	3.38E-10	1.12E-10	0.00E+00	8.47E-07	3.77E-07	2.00E-06	7.30E-07	7.78E-10	0.00E+00	3.96E-06	3.96E-06
RECR	Post Closure-Base	MercuryMethyl	Adolescent	9.04E-11	5.36E-14	0.00E+00	0.00E+00	6.87E-10	4.07E-10	9.36E-10	3.38E-10	1.12E-10	0.00E+00	8.47E-07	3.77E-07	2.00E-06	7.30E-07	7.78E-10	0.00E+00	3.96E-06	3.96E-06
URBN	Project-Base	MercuryMethyl	Adolescent	1.56E-11	9.27E-15	0.00E+00	0.00E+00	1.19E-10	0.00E+00	1.62E-10	5.85E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-10	0.00E+00	2.20E-10	3.55E-10
URBN	Closure-Base	MercuryMethyl	Adolescent	1.56E-11	9.27E-15	0.00E+00	0.00E+00	1.19E-10	0.00E+00	1.62E-10	5.85E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-10	0.00E+00	2.20E-10	3.55E-10
URBN	Post Closure-Base	MercuryMethyl	Adolescent	1.56E-11	9.27E-15	0.00E+00	0.00E+00	1.19E-10	0.00E+00	1.62E-10	5.85E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-10	0.00E+00	2.20E-10	3.55E-10
COMM	Project-Base	MercuryMethyl	Adolescent	1.31E-11	2.55E-12	0.00E+00	0.00E+00	9.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-10	0.00E+00	0.00E+00	1.15E-10
COMM	Closure-Base	MercuryMethyl	Adolescent	1.31E-11	2.55E-12	0.00E+00	0.00E+00	9.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-10	0.00E+00	0.00E+00	1.15E-10
COMM	Post Closure-Base	MercuryMethyl	Adolescent	1.31E-11	2.55E-12	0.00E+00	0.00E+00	9.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-10	0.00E+00	0.00E+00	1.15E-10
RESI	Project-Base	MercuryMethyl	Adult	9.04E-11	5.70E-14	0.00E+00	0.00E+00	7.74E-10	1.95E-09	5.34E-09	1.40E-09	6.40E-10	0.00E+00	4.41E-06	1.96E-06	1.16E-05	3.70E-06	8.64E-10	0.00E+00	2.17E-05	2.17E-05
RESI	Closure-Base	MercuryMethyl	Adult	9.04E-11	5.70E-14	0.00E+00	0.00E+00	7.74E-10	1.95E-09	5.34E-09	1.40E-09	6.40E-10	0.00E+00	4.41E-06	1.96E-06	1.16E-05	3.70E-06	8.64E-10	0.00E+00	2.17E-05	2.17E-05
RESI	Post Closure-Base	MercuryMethyl	Adult	9.04E-11	5.70E-14	0.00E+00	0.00E+00	7.74E-10	1.95E-09	5.34E-09	1.40E-09	6.40E-10	0.00E+00	4.41E-06	1.96E-06	1.16E-05	3.70E-06	8.64E-10	0.00E+00	2.17E-05	2.17E-05
RECR	Project-Base	MercuryMethyl	Adult	9.04E-11	5.70E-14	0.00E+00	0.00E+00	7.74E-10	3.91E-10	1.07E-09	2.80E-10	1.28E-10	0.00E+00	8.82E-07	3.93E-07	2.32E-06	7.40E-07	8.64E-10	0.00E+00	4.34E-06	4.34E-06
RECR	Closure-Base	MercuryMethyl	Adult	9.04E-11	5.70E-14	0.00E+00	0.00E+00	7.74E-10	3.91E-10	1.07E-09	2.80E-10	1.28E-10	0.00E+00	8.82E-07	3.93E-07	2.32E-06	7.40E-07	8.64E-10	0.00E+00	4.34E-06	4.34E-06
RECR	Post Closure-Base	MercuryMethyl	Adult	9.04E-11	5.70E-14	0.00E+00	0.00E+00	7.74E-10	3.91E-10	1.07E-09	2.80E-10	1.28E-10	0.00E+00	8.82E-07	3.93E-07	2.32E-06	7.40E-07	8.64E-10	0.00E+00	4.34E-06	4.34E-06
URBN	Project-Base	MercuryMethyl	Adult	1.56E-11	9.87E-15	0.00E+00	0.00E+00	1.34E-10	0.00E+00	1.85E-10	4.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-10	0.00E+00	2.33E-10	3.83E-10
URBN	Closure-Base	MercuryMethyl	Adult	1.56E-11	9.87E-15	0.00E+00	0.00E+00	1.34E-10	0.00E+00	1.85E-10	4.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-10	0.00E+00	2.33E-10	3.83E-10
URBN	Post Closure-Base	MercuryMethyl	Adult	1.56E-11	9.87E-15	0.00E+00	0.00E+00	1.34E-10	0.00E+00	1.85E-10	4.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-10	0.00E+00	2.33E-10	3.83E-10
COMM	Project-Base	MercuryMethyl	Adult	1.31E-11	2.71E-12	0.00E+00	0.00E+00	1.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-10	0.00E+00	0.00E+00	1.28E-10
COMM	Closure-Base	MercuryMethyl	Adult	1.31E-11	2.71E-12	0.00E+00	0.00E+00	1.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-10	0.00E+00	0.00E+00	1.28E-10
COMM	Post Closure-Base	MercuryMethyl	Adult	1.31E-11	2.71E-12	0.00E+00	0.00E+00	1.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-10	0.00E+00	0.00E+00	1.28E-10

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RESI	Base	Arsenic	Infant	28.4%	0.0%	69.5%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.5%	69.5%	0.0%	100%
RESI	Base	Barium	Infant	31.1%	0.0%	61.3%	0.0%	7.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	38.7%	61.3%	0.0%	100%
RESI	Base	Beryllium	Infant	14.2%	0.0%	82.3%	0.0%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.7%	82.3%	0.0%	100%
RESI	Base	Chromium	Infant	60.8%	0.0%	24.3%	0.0%	14.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	75.7%	24.3%	0.0%	100%
RESI	Base	Cobalt	Infant	62.4%	0.0%	22.2%	0.0%	15.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	77.8%	22.2%	0.0%	100%
RESI	Base	Iron	Infant	79.5%	0.0%	0.9%	0.0%	19.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.1%	0.9%	0.0%	100%
RESI	Base	Lead	Infant	62.9%	0.0%	36.2%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	63.8%	36.2%	0.0%	100%
RESI	Base	Manganese	Infant	71.1%	0.0%	11.4%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.6%	11.4%	0.0%	100%
RESI	Base	Mercury	Infant	7.0%	0.0%	76.0%	0.0%	17.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	24.0%	76.0%	0.0%	100%
RESI	Base	Molybdenum	Infant	11.1%	0.0%	86.2%	0.0%	2.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.8%	86.2%	0.0%	100%
RESI	Base	Selenium	Infant	6.6%	0.0%	93.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.8%	93.2%	0.0%	100%
RESI	Project	Arsenic	Infant	18.7%	0.0%	79.9%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.1%	79.9%	0.0%	100%
RESI	Project	Barium	Infant	27.3%	0.0%	66.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.0%	66.0%	0.0%	100%
RESI	Project	Beryllium	Infant	12.4%	0.0%	84.5%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.5%	84.5%	0.0%	100%
RESI	Project	Chromium	Infant	61.0%	0.0%	24.0%	0.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.0%	24.0%	0.0%	100%
RESI	Project	Cobalt	Infant	20.5%	0.0%	74.5%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.5%	74.5%	0.0%	100%
RESI	Project	Iron	Infant	77.0%	0.0%	4.1%	0.0%	18.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.9%	4.1%	0.0%	100%
RESI	Project	Lead	Infant	66.1%	0.0%	32.9%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	67.1%	32.9%	0.0%	100%
RESI	Project	Manganese	Infant	37.9%	0.0%	52.8%	0.0%	9.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.2%	52.8%	0.0%	100%
RESI	Project	Mercury	Infant	7.3%	0.0%	74.8%	0.0%	17.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.2%	74.8%	0.0%	100%
RESI	Project	Molybdenum	Infant	2.4%	0.0%	97.1%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	97.1%	0.0%	100%
RESI	Project	Selenium	Infant	3.4%	0.0%	96.5%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.5%	96.5%	0.0%	100%
RESI	Closure	Arsenic	Infant	22.8%	0.0%	75.6%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	24.4%	75.6%	0.0%	100%
RESI	Closure	Barium	Infant	27.4%	0.0%	65.9%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.1%	65.9%	0.0%	100%
RESI	Closure	Beryllium	Infant	14.1%	0.0%	82.5%	0.0%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.5%	82.5%	0.0%	100%
RESI	Closure	Chromium	Infant	62.2%	0.0%	22.6%	0.0%	15.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	77.4%	22.6%	0.0%	100%
RESI	Closure	Cobalt	Infant	28.0%	0.0%	65.1%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.9%	65.1%	0.0%	100%
RESI	Closure	Iron	Infant	77.6%	0.0%	3.4%	0.0%	19.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.6%	3.4%	0.0%	100%
RESI	Closure	Lead	Infant	67.4%	0.0%	31.6%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	68.4%	31.6%	0.0%	100%
RESI	Closure	Manganese	Infant	44.2%	0.0%	45.0%	0.0%	10.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.0%	45.0%	0.0%	100%
RESI	Closure	Mercury	Infant	7.3%	0.0%	74.8%	0.0%	17.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.2%	74.8%	0.0%	100%
RESI	Closure	Molybdenum	Infant	3.2%	0.0%	96.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	96.0%	0.0%	100%
RESI	Closure	Selenium	Infant	4.5%	0.0%	95.4%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.6%	95.4%	0.0%	100%
RESI	Post Closure	Arsenic	Infant	33.8%	0.0%	63.7%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.3%	63.7%	0.0%	100%
RESI	Post Closure	Barium	Infant	27.7%	0.0%	65.5%	0.0%	6.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.5%	65.5%	0.0%	100%
RESI	Post Closure	Beryllium	Infant	18.0%	0.0%	77.6%	0.0%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.4%	77.6%	0.0%	100%
RESI	Post Closure	Chromium	Infant	64.3%	0.0%	19.9%	0.0%	15.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.1%	19.9%	0.0%	100%
RESI	Post Closure	Cobalt	Infant	64.8%	0.0%	19.3%	0.0%	15.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.7%	19.3%	0.0%	100%
RESI	Post Closure	Iron	Infant	78.2%	0.0%	2.6%	0.0%	19.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	97.4%	2.6%	0.0%	100%
RESI	Post Closure	Lead	Infant	71.8%	0.0%	27.1%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	72.9%	27.1%	0.0%	100%
RESI	Post Closure	Manganese	Infant	46.1%	0.0%	42.6%	0.0%	11.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.4%	42.6%	0.0%	100%
RESI	Post Closure	Mercury	Infant	7.5%	0.0%	74.1%	0.0%	18.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.9%	74.1%	0.0%	100%
RESI	Post Closure	Molybdenum	Infant	4.6%	0.0%	94.2%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	94.2%	0.0%	100%
RESI	Post Closure	Selenium	Infant	8.7%	0.0%	91.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.9%	91.1%	0.0%	100%
RECR	Base	Arsenic	Infant	28.4%	0.0%	69.5%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.5%	69.5%	0.0%	100%
RECR	Base	Barium	Infant	31.1%	0.0%	61.3%	0.0%	7.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	38.7%	61.3%	0.0%	100%
RECR	Base	Beryllium	Infant	14.2%	0.0%	82.3%	0.0%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.7%	82.3%	0.0%	100%
RECR	Base	Chromium	Infant	60.8%	0.0%	24.3%	0.0%	14.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	75.7%	24.3%	0.0%	100%
RECR	Base	Cobalt	Infant	62.4%	0.0%	22.2%	0.0%	15.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	77.8%	22.2%	0.0%	100%
RECR	Base	Iron	Infant	79.5%	0.0%	0.9%	0.0%	19.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.1%	0.9%	0.0%	100%
RECR	Base	Lead	Infant	62.9%	0.0%	36.2%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	63.8%	36.2%	0.0%	100%
RECR	Base	Manganese	Infant	71.1%	0.0%	11.4%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.6%	11.4%	0.0%	100%
RECR	Base	Mercury	Infant	7.0%	0.0%	76.0%	0.0%	17.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	24.0%	76.0%	0.0%	100%
RECR	Base	Molybdenum	Infant	11.1%	0.0%	86.2%	0.0%	2.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.8%	86.2%	0.0%	100%
RECR	Base	Selenium	Infant	6.6%	0.0%	93.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.8%	93.2%	0.0%	100%
RECR	Project	Arsenic	Infant	18.7%	0.0%	79.9%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.1%	79.9%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RECR	Project	Barium	Infant	27.3%	0.0%	66.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.0%	66.0%	0.0%	100%
RECR	Project	Beryllium	Infant	12.4%	0.0%	84.5%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.5%	84.5%	0.0%	100%
RECR	Project	Chromium	Infant	61.0%	0.0%	24.0%	0.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.0%	24.0%	0.0%	100%
RECR	Project	Cobalt	Infant	20.5%	0.0%	74.5%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.5%	74.5%	0.0%	100%
RECR	Project	Iron	Infant	77.0%	0.0%	4.1%	0.0%	18.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.9%	4.1%	0.0%	100%
RECR	Project	Lead	Infant	66.1%	0.0%	32.9%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	67.1%	32.9%	0.0%	100%
RECR	Project	Manganese	Infant	37.9%	0.0%	52.8%	0.0%	9.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.2%	52.8%	0.0%	100%
RECR	Project	Mercury	Infant	7.3%	0.0%	74.8%	0.0%	17.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.2%	74.8%	0.0%	100%
RECR	Project	Molybdenum	Infant	2.4%	0.0%	97.1%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	97.1%	0.0%	100%
RECR	Project	Selenium	Infant	3.4%	0.0%	96.5%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.5%	96.5%	0.0%	100%
RECR	Closure	Arsenic	Infant	22.8%	0.0%	75.6%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	24.4%	75.6%	0.0%	100%
RECR	Closure	Barium	Infant	27.4%	0.0%	65.9%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.1%	65.9%	0.0%	100%
RECR	Closure	Beryllium	Infant	14.1%	0.0%	82.5%	0.0%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.5%	82.5%	0.0%	100%
RECR	Closure	Chromium	Infant	62.2%	0.0%	22.6%	0.0%	15.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	77.4%	22.6%	0.0%	100%
RECR	Closure	Cobalt	Infant	28.0%	0.0%	65.1%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.9%	65.1%	0.0%	100%
RECR	Closure	Iron	Infant	77.6%	0.0%	3.4%	0.0%	19.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.6%	3.4%	0.0%	100%
RECR	Closure	Lead	Infant	67.4%	0.0%	31.6%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	68.4%	31.6%	0.0%	100%
RECR	Closure	Manganese	Infant	44.2%	0.0%	45.0%	0.0%	10.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.0%	45.0%	0.0%	100%
RECR	Closure	Mercury	Infant	7.3%	0.0%	74.8%	0.0%	17.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.2%	74.8%	0.0%	100%
RECR	Closure	Molybdenum	Infant	3.2%	0.0%	96.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	96.0%	0.0%	100%
RECR	Closure	Selenium	Infant	4.5%	0.0%	95.4%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.6%	95.4%	0.0%	100%
RECR	Post Closure	Arsenic	Infant	33.8%	0.0%	63.7%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.3%	63.7%	0.0%	100%
RECR	Post Closure	Barium	Infant	27.7%	0.0%	65.5%	0.0%	6.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.5%	65.5%	0.0%	100%
RECR	Post Closure	Beryllium	Infant	18.0%	0.0%	77.6%	0.0%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.4%	77.6%	0.0%	100%
RECR	Post Closure	Chromium	Infant	64.3%	0.0%	19.9%	0.0%	15.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.1%	19.9%	0.0%	100%
RECR	Post Closure	Cobalt	Infant	64.8%	0.0%	19.3%	0.0%	15.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.7%	19.3%	0.0%	100%
RECR	Post Closure	Iron	Infant	78.2%	0.0%	2.6%	0.0%	19.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	97.4%	2.6%	0.0%	100%
RECR	Post Closure	Lead	Infant	71.8%	0.0%	27.1%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	72.9%	27.1%	0.0%	100%
RECR	Post Closure	Manganese	Infant	46.1%	0.0%	42.6%	0.0%	11.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.4%	42.6%	0.0%	100%
RECR	Post Closure	Mercury	Infant	7.5%	0.0%	74.1%	0.0%	18.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.9%	74.1%	0.0%	100%
RECR	Post Closure	Molybdenum	Infant	4.6%	0.0%	94.2%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	94.2%	0.0%	100%
RECR	Post Closure	Selenium	Infant	8.7%	0.0%	91.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.9%	91.1%	0.0%	100%
URBN	Base	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Barium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Iron	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Manganese	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Molybdenum	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Barium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Iron	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Manganese	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Molybdenum	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Barium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Closure	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Iron	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Manganese	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Molybdenum	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Barium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Iron	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Manganese	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Molybdenum	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Arsenic	Infant	90.8%	2.5%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Barium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Beryllium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Chromium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Cobalt	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Iron	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Lead	Infant	95.9%	2.6%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Manganese	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Mercury	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Molybdenum	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Selenium	Infant	95.1%	2.6%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Arsenic	Infant	90.8%	2.5%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Barium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Beryllium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Chromium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Cobalt	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Iron	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Lead	Infant	95.9%	2.6%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Manganese	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Mercury	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Molybdenum	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Selenium	Infant	95.1%	2.6%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Arsenic	Infant	90.8%	2.5%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Barium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Beryllium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Chromium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Cobalt	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Iron	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Lead	Infant	95.9%	2.6%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Manganese	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Mercury	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Molybdenum	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Selenium	Infant	95.1%	2.6%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Arsenic	Infant	90.8%	2.5%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Barium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Beryllium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Post Closure	Chromium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Cobalt	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Iron	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Lead	Infant	95.9%	2.6%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Manganese	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Mercury	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Molybdenum	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Selenium	Infant	95.1%	2.6%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	Arsenic	Toddler	25.9%	0.0%	31.6%	5.3%	0.7%	0.5%	8.4%	9.4%	0.5%	10.2%	0.3%	5.9%	0.3%	1.0%	26.6%	36.9%	36.6%	100%
RESI	Base	Barium	Toddler	15.1%	0.0%	14.9%	2.5%	1.3%	2.9%	26.5%	19.3%	1.6%	14.3%	0.0%	0.0%	0.0%	1.7%	16.4%	17.3%	66.3%	100%
RESI	Base	Beryllium	Toddler	7.8%	0.0%	22.5%	3.8%	0.7%	0.1%	1.1%	1.0%	0.1%	46.6%	0.0%	0.0%	0.0%	16.4%	8.4%	26.3%	65.3%	100%
RESI	Base	Chromium	Toddler	31.8%	0.0%	6.4%	1.1%	2.7%	0.9%	8.5%	12.2%	0.5%	4.0%	5.7%	3.1%	6.6%	16.5%	34.6%	7.4%	58.0%	100%
RESI	Base	Cobalt	Toddler	21.3%	0.0%	3.8%	0.6%	1.8%	1.6%	23.2%	12.7%	0.9%	4.1%	0.9%	12.5%	3.4%	13.2%	23.2%	4.4%	72.5%	100%
RESI	Base	Iron	Toddler	49.8%	0.0%	0.3%	0.0%	4.3%	1.0%	10.8%	4.2%	0.6%	1.9%	3.5%	7.5%	3.3%	12.7%	54.1%	0.3%	45.6%	100%
RESI	Base	Lead	Toddler	15.2%	0.0%	4.4%	0.7%	0.1%	1.2%	11.3%	11.7%	0.7%	0.0%	0.0%	18.6%	4.5%	31.7%	15.3%	5.0%	79.7%	100%
RESI	Base	Manganese	Toddler	3.9%	0.0%	0.3%	0.1%	0.3%	14.5%	53.4%	16.7%	8.0%	0.4%	0.5%	0.4%	0.9%	0.6%	4.3%	0.4%	95.4%	100%
RESI	Base	Mercury	Toddler	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%	1.5%	0.5%	0.2%	86.9%	0.1%	7.6%	0.5%	2.3%	0.1%	0.2%	99.7%	100%
RESI	Base	Molybdenum	Toddler	1.7%	0.0%	6.4%	1.1%	0.1%	5.0%	22.5%	8.5%	2.8%	27.5%	3.6%	9.1%	3.6%	8.3%	1.8%	7.5%	90.7%	100%
RESI	Base	Selenium	Toddler	0.2%	0.0%	1.5%	0.3%	0.0%	0.0%	0.2%	0.4%	0.0%	6.6%	9.0%	48.8%	8.1%	24.7%	0.2%	1.8%	98.0%	100%
RESI	Project	Arsenic	Toddler	18.3%	0.0%	39.1%	6.5%	0.5%	0.4%	6.2%	6.5%	0.5%	12.6%	0.3%	7.9%	0.3%	1.0%	18.8%	45.6%	35.6%	100%
RESI	Project	Barium	Toddler	14.2%	0.0%	17.2%	2.9%	1.2%	2.7%	24.4%	17.4%	1.5%	16.5%	0.0%	0.0%	0.0%	1.9%	15.4%	20.1%	64.5%	100%
RESI	Project	Beryllium	Toddler	6.8%	0.0%	23.1%	3.9%	0.6%	0.1%	1.2%	0.8%	0.1%	47.7%	0.0%	0.0%	0.0%	15.7%	7.4%	26.9%	65.7%	100%
RESI	Project	Chromium	Toddler	30.0%	0.0%	5.9%	1.0%	2.6%	0.9%	8.3%	11.3%	0.6%	3.7%	6.1%	3.5%	7.7%	18.5%	32.6%	6.9%	60.6%	100%
RESI	Project	Cobalt	Toddler	11.1%	0.0%	20.2%	3.1%	1.0%	0.9%	12.0%	6.5%	0.5%	21.6%	0.5%	10.2%	2.3%	10.1%	12.1%	23.3%	64.6%	100%
RESI	Project	Iron	Toddler	40.4%	0.0%	1.1%	0.2%	3.5%	0.9%	9.4%	3.4%	0.6%	7.3%	4.2%	8.7%	3.9%	16.3%	43.9%	1.3%	54.9%	100%
RESI	Project	Lead	Toddler	19.5%	0.0%	4.9%	0.7%	0.1%	1.6%	14.5%	14.7%	0.9%	0.0%	0.0%	6.8%	7.0%	29.1%	19.6%	5.6%	74.8%	100%
RESI	Project	Manganese	Toddler	3.8%	0.0%	2.6%	0.4%	0.3%	13.6%	50.2%	15.7%	7.6%	3.6%	0.6%	0.1%	1.3%	0.2%	4.1%	3.1%	92.8%	100%
RESI	Project	Mercury	Toddler	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%	1.6%	0.5%	0.2%	86.3%	0.1%	7.9%	0.5%	2.4%	0.1%	0.2%	99.7%	100%
RESI	Project	Molybdenum	Toddler	0.6%	0.0%	11.8%	2.0%	0.0%	1.5%	6.8%	2.5%	0.8%	50.5%	2.7%	8.9%	3.9%	8.0%	0.6%	13.8%	85.6%	100%
RESI	Project	Selenium	Toddler	0.1%	0.0%	1.4%	0.2%	0.0%	0.0%	0.1%	0.2%	0.0%	6.1%	4.7%	58.4%	4.5%	24.2%	0.1%	1.7%	98.2%	100%
RESI	Closure	Arsenic	Toddler	21.3%	0.0%	35.4%	5.9%	0.6%	0.5%	7.2%	7.5%	0.5%	11.4%	0.3%	7.9%	0.3%	1.1%	21.9%	41.3%	36.8%	100%
RESI	Closure	Barium	Toddler	14.2%	0.0%	17.1%	2.9%	1.2%	2.7%	24.5%	17.5%	1.6%	16.5%	0.0%	0.0%	0.0%	1.9%	15.5%	20.0%	64.5%	100%
RESI	Closure	Beryllium	Toddler	7.6%	0.0%	22.2%	3.7%	0.7%	0.2%	1.3%	0.9%	0.1%	45.9%	0.0%	0.0%	0.0%	17.4%	8.2%	25.9%	65.9%	100%
RESI	Closure	Chromium	Toddler	30.5%	0.0%	5.5%	0.9%	2.6%	0.9%	8.5%	11.5%	0.6%	3.5%	6.2%	3.3%	7.8%	18.2%	33.1%	6.5%	60.4%	100%
RESI	Closure	Cobalt	Toddler	13.4%	0.0%	15.6%	2.4%	1.2%	1.0%	14.6%	7.9%	0.6%	16.7%	0.7%	11.3%	2.8%	11.8%	14.6%	18.1%	67.4%	100%
RESI	Closure	Iron	Toddler	41.5%	0.0%	0.9%	0.2%	3.6%	1.0%	9.7%	3.5%	0.7%	6.1%	4.3%	8.3%	4.0%	16.3%	45.1%	1.1%	53.9%	100%
RESI	Closure	Lead	Toddler	19.7%	0.0%	4.6%	0.7%	0.1%	1.6%	14.7%	14.9%	0.9%	0.0%	0.0%	6.5%	7.1%	29.1%	19.8%	5.3%	74.9%	100%
RESI	Closure	Manganese	Toddler	3.9%	0.0%	2.0%	0.3%	0.3%	13.9%	51.2%	16.0%	7.7%	2.7%	0.6%	0.1%	1.3%	0.2%	4.2%	2.3%	93.5%	100%
RESI	Closure	Mercury	Toddler	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%	1.6%	0.5%	0.2%	86.3%	0.1%	7.9%	0.5%	2.4%	0.1%	0.2%	99.7%	100%
RESI	Closure	Molybdenum	Toddler	0.7%	0.0%	11.0%	1.8%	0.1%	1.9%	8.7%	3.2%	1.1%	47.1%	3.4%	8.3%	4.9%	7.7%	0.8%	12.8%	86.4%	100%
RESI	Closure	Selenium	Toddler	0.1%	0.0%	1.4%	0.2%	0.0%	0.0%	0.1%	0.2%	0.0%	5.8%	5.9%	55.9%	5.7%	24.5%	0.1%	1.6%	98.3%	100%
RESI	Post Closure	Arsenic	Toddler	26.8%	0.0%	25.3%	4.2%	0.7%	0.6%	9.0%	9.5%	0.7%	8.2%	0.4%	12.8%	0.4%	1.5%	27.5%	29.5%	43.0%	100%
RESI	Post Closure	Barium	Toddler	14.3%	0.0%	17.0%	2.8%	1.2%	2.7%	24.6%	17.6%	1.6%	16.3%	0.0%	0.0%	0.0%	1.9%	15.6%	19.8%	64.6%	100%
RESI	Post Closure	Beryllium	Toddler	9.4%	0.0%	20.2%	3.4%	0.8%	0.2%	1.6%	1.1%	0.2%	41.7%	0.0%	0.0%	0.1%	21.4%	10.2%	23.5%	66.3%	100%
RESI	Post Closure	Chromium	Toddler	31.2%	0.0%	4.8%	0.8%	2.7%	1.0%	8.7%	11.8%	0.6%	3.1%	6.4%	3.1%	8.0%	17.9%	33.9%	5.6%	60.5%	100%
RESI	Post Closure	Cobalt	Toddler	19.6%	0.0%	2.9%	0.5%	1.7%	1.5%	21.2%	11.5%	0.9%	3.1%	1.0%	15.3%	4.1%	16.9%	21.3%	3.4%	75.4%	100%
RESI	Post Closure	Iron	Toddler	41.9%	0.0%	0.7%	0.1%	3.6%	1.0%	9.8%	3.5%	0.7%	4.7%	4.4%	8.9%	4.1%	16.8%	45.5%	0.8%	53.7%	100%
RESI	Post Closure	Lead	Toddler	20.1%	0.0%	3.8%	0.6%	0.1%	1.6%	15.0%	15.2%	1.0%	0.0%	0.0%	6.2%	7.2%	29.3%	20.2%	4.4%	75.4%	100%
RESI	Post Closure	Manganese	Toddler	3.9%	0.0%	1.8%	0.3%	0.3%	13.9%	51.4%	16.1%	7.7%	2.4%	0.6%	0.1%	1.3%	0.1%	4.2%	2.1%	93.7%	100%
RESI	Post Closure	Mercury	Toddler	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%	1.6%	0.6%	0.2%	85.9%	0.1%	8.1%	0.5%	2.5%	0.1%	0.2%	99.7%	100%
RESI	Post Closure	Molybdenum	Toddler	0.8%	0.0%	8.3%	1.4%	0.1%	2.1%	9.6%	3.6%	1.2%	35.4%	3.8%	14.9%	5.5%	13.3%	0.9%	9.6%	89.5%	100%
RESI	Post Closure	Selenium	Toddler	0.1%	0.0%	0.4%	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	1.5%	3.2%	66.0%	3.1%	25.5%	0.1%	0.4%	99.5%	100%
RECR	Base	Arsenic	Toddler	35.1%	0.0%	42.8%	7.2%	0.9%	0.1%	2.3%	2.5%	0.1%	6.9%	0.1%	1.6%	0.1%	0.3%	36.0%	50.0%	14.0%	100%
RECR	Base	Barium	Toddler	29.5%	0.0%	29.0%	4.8%	2.5%	1.1%	10.3%	7.5%	0.6%	13.8%	0.0%	0.0%	0.0%	0.7%	32.0%	33.9%	34.1%	100%
RECR	Base	Beryllium	Toddler	12.6%	0.0%	36.6%	6.1%	1.1%	0.0%	0.4%	0.3%	0.0%	37.5%	0.0%	0.0%	0.0%	5.3%	13.7%	42.7%	43.5%	100%
RECR	Base	Chromium	Toddler	58.1%	0.0%	11.6%	1.9%	5.0%	0.3%	3.1%	4.5%	0.2%	3.6%	2.1%	1.1%	2.4%	6.0%	63.1%	13.6%	23.3%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RECR	Base	Cobalt	Toddler	49.3%	0.0%	8.8%	1.4%	4.2%	0.7%	10.7%	5.9%	0.4%	4.6%	0.4%	5.8%	1.6%	6.1%	53.6%	10.1%	36.3%	100%
RECR	Base	Iron	Toddler	77.7%	0.0%	0.4%	0.1%	6.7%	0.3%	3.4%	1.3%	0.2%	1.5%	1.1%	2.3%	1.0%	4.0%	84.3%	0.5%	15.1%	100%
RECR	Base	Lead	Toddler	42.0%	0.0%	12.1%	1.8%	0.2%	0.7%	6.2%	6.4%	0.4%	0.0%	0.0%	10.2%	2.5%	17.5%	42.2%	13.9%	44.0%	100%
RECR	Base	Manganese	Toddler	16.5%	0.0%	1.3%	0.2%	1.4%	12.1%	44.8%	14.0%	6.7%	0.9%	0.4%	0.3%	0.7%	0.5%	17.9%	1.5%	80.6%	100%
RECR	Base	Mercury	Toddler	0.1%	0.0%	0.4%	0.1%	0.1%	0.1%	0.7%	0.2%	0.1%	93.8%	0.0%	3.3%	0.2%	1.0%	0.1%	0.4%	99.5%	100%
RECR	Base	Molybdenum	Toddler	4.7%	0.0%	18.0%	3.0%	0.4%	2.8%	12.7%	4.8%	1.5%	38.3%	2.0%	5.1%	2.0%	4.7%	5.1%	21.1%	73.9%	100%
RECR	Base	Selenium	Toddler	0.9%	0.0%	6.5%	1.1%	0.0%	0.0%	0.2%	0.3%	0.0%	13.9%	7.7%	41.4%	6.9%	21.0%	0.9%	7.6%	91.4%	100%
RECR	Project	Arsenic	Toddler	24.4%	0.0%	51.9%	8.7%	0.6%	0.1%	1.6%	1.7%	0.1%	8.3%	0.1%	2.1%	0.1%	0.3%	25.0%	60.6%	14.4%	100%
RECR	Project	Barium	Toddler	26.7%	0.0%	32.3%	5.4%	2.3%	1.0%	9.2%	6.5%	0.6%	15.4%	0.0%	0.0%	0.0%	0.7%	29.0%	37.7%	33.4%	100%
RECR	Project	Beryllium	Toddler	11.0%	0.0%	37.5%	6.3%	0.9%	0.0%	0.4%	0.3%	0.0%	38.4%	0.0%	0.0%	0.0%	5.1%	12.0%	43.8%	44.2%	100%
RECR	Project	Chromium	Toddler	57.0%	0.0%	11.2%	1.9%	4.9%	0.3%	3.2%	4.3%	0.2%	3.5%	2.3%	1.3%	2.9%	7.0%	61.9%	13.1%	25.1%	100%
RECR	Project	Cobalt	Toddler	20.3%	0.0%	36.9%	5.7%	1.7%	0.3%	4.4%	2.4%	0.2%	19.5%	0.2%	3.7%	0.8%	3.7%	22.1%	42.7%	35.3%	100%
RECR	Project	Iron	Toddler	69.4%	0.0%	1.8%	0.3%	6.0%	0.3%	3.2%	1.2%	0.2%	6.2%	1.4%	3.0%	1.3%	5.6%	75.3%	2.2%	22.5%	100%
RECR	Project	Lead	Toddler	48.6%	0.0%	12.1%	1.8%	0.3%	0.8%	7.2%	7.3%	0.5%	0.0%	0.0%	3.4%	3.5%	14.5%	48.9%	13.9%	37.2%	100%
RECR	Project	Manganese	Toddler	14.1%	0.0%	9.8%	1.6%	1.2%	10.1%	37.5%	11.7%	5.6%	6.6%	0.5%	0.1%	1.0%	0.1%	15.3%	11.5%	73.2%	100%
RECR	Project	Mercury	Toddler	0.1%	0.0%	0.4%	0.1%	0.1%	0.1%	0.7%	0.2%	0.1%	93.5%	0.0%	3.5%	0.2%	1.1%	0.1%	0.4%	99.4%	100%
RECR	Project	Molybdenum	Toddler	1.2%	0.0%	25.4%	4.2%	0.1%	0.6%	2.9%	1.1%	0.4%	53.9%	1.1%	3.8%	1.7%	3.4%	1.3%	29.7%	69.0%	100%
RECR	Project	Selenium	Toddler	0.4%	0.0%	6.1%	1.0%	0.0%	0.0%	0.1%	0.2%	0.0%	13.0%	4.0%	50.3%	3.9%	20.9%	0.4%	7.1%	92.4%	100%
RECR	Closure	Arsenic	Toddler	28.9%	0.0%	47.9%	8.0%	0.7%	0.1%	1.9%	2.0%	0.1%	7.7%	0.1%	2.1%	0.1%	0.3%	29.6%	55.9%	14.5%	100%
RECR	Closure	Barium	Toddler	26.8%	0.0%	32.2%	5.4%	2.3%	1.0%	9.2%	6.6%	0.6%	15.3%	0.0%	0.0%	0.0%	0.7%	29.1%	37.6%	33.4%	100%
RECR	Closure	Beryllium	Toddler	12.4%	0.0%	36.5%	6.1%	1.1%	0.1%	0.4%	0.3%	0.0%	37.3%	0.0%	0.0%	0.0%	5.7%	13.5%	42.6%	43.9%	100%
RECR	Closure	Chromium	Toddler	57.9%	0.0%	10.5%	1.8%	5.0%	0.4%	3.2%	4.4%	0.2%	3.3%	2.4%	1.2%	3.0%	6.9%	62.8%	12.3%	24.9%	100%
RECR	Closure	Cobalt	Toddler	26.3%	0.0%	30.6%	4.7%	2.3%	0.4%	5.7%	3.1%	0.2%	16.2%	0.3%	4.4%	1.1%	4.6%	28.6%	35.4%	36.1%	100%
RECR	Closure	Iron	Toddler	70.7%	0.0%	1.5%	0.3%	6.1%	0.3%	3.3%	1.2%	0.2%	5.1%	1.5%	2.8%	1.4%	5.6%	76.8%	1.8%	21.4%	100%
RECR	Closure	Lead	Toddler	49.2%	0.0%	11.5%	1.7%	0.3%	0.8%	7.3%	7.4%	0.5%	0.0%	0.0%	3.3%	3.5%	14.5%	49.4%	13.2%	37.3%	100%
RECR	Closure	Manganese	Toddler	14.8%	0.0%	7.6%	1.3%	1.3%	10.7%	39.4%	12.3%	5.9%	5.1%	0.5%	0.0%	1.0%	0.1%	16.1%	8.8%	75.1%	100%
RECR	Closure	Mercury	Toddler	0.1%	0.0%	0.4%	0.1%	0.1%	0.1%	0.7%	0.2%	0.1%	93.5%	0.0%	3.5%	0.2%	1.1%	0.1%	0.4%	99.4%	100%
RECR	Closure	Molybdenum	Toddler	1.6%	0.0%	24.5%	4.1%	0.1%	0.9%	3.9%	1.4%	0.5%	52.1%	1.5%	3.7%	2.2%	3.4%	1.8%	28.6%	69.6%	100%
RECR	Closure	Selenium	Toddler	0.6%	0.0%	5.9%	1.0%	0.0%	0.0%	0.1%	0.2%	0.0%	12.5%	5.1%	48.5%	5.0%	21.2%	0.6%	6.8%	92.6%	100%
RECR	Post Closure	Arsenic	Toddler	39.4%	0.0%	37.2%	6.2%	1.0%	0.2%	2.7%	2.8%	0.2%	5.9%	0.1%	3.8%	0.1%	0.4%	40.4%	43.4%	16.2%	100%
RECR	Post Closure	Barium	Toddler	27.0%	0.0%	32.0%	5.3%	2.3%	1.0%	9.3%	6.6%	0.6%	15.2%	0.0%	0.0%	0.0%	0.7%	29.3%	37.3%	33.4%	100%
RECR	Post Closure	Beryllium	Toddler	15.8%	0.0%	34.0%	5.7%	1.4%	0.1%	0.5%	0.4%	0.1%	34.8%	0.0%	0.0%	0.0%	7.2%	17.2%	39.7%	43.1%	100%
RECR	Post Closure	Chromium	Toddler	59.4%	0.0%	9.2%	1.5%	5.1%	0.4%	3.3%	4.5%	0.2%	2.9%	2.4%	1.2%	3.0%	6.8%	64.5%	10.7%	24.7%	100%
RECR	Post Closure	Cobalt	Toddler	48.2%	0.0%	7.2%	1.1%	4.1%	0.7%	10.5%	5.7%	0.4%	3.8%	0.5%	7.5%	2.0%	8.3%	52.3%	8.3%	39.4%	100%
RECR	Post Closure	Iron	Toddler	71.7%	0.0%	1.2%	0.2%	6.2%	0.3%	3.3%	1.2%	0.2%	4.0%	1.5%	3.0%	1.4%	5.8%	77.8%	1.4%	20.8%	100%
RECR	Post Closure	Lead	Toddler	50.7%	0.0%	9.6%	1.4%	0.3%	0.8%	7.5%	7.6%	0.5%	0.0%	0.0%	3.1%	3.7%	14.8%	51.0%	11.0%	38.0%	100%
RECR	Post Closure	Manganese	Toddler	15.0%	0.0%	6.9%	1.2%	1.3%	10.8%	39.9%	12.5%	6.0%	4.7%	0.5%	0.0%	1.0%	0.1%	16.3%	8.1%	75.6%	100%
RECR	Post Closure	Mercury	Toddler	0.1%	0.0%	0.4%	0.1%	0.1%	0.1%	0.7%	0.2%	0.1%	93.4%	0.0%	3.5%	0.2%	1.1%	0.1%	0.4%	99.4%	100%
RECR	Post Closure	Molybdenum	Toddler	2.1%	0.0%	21.3%	3.6%	0.2%	1.1%	5.0%	1.8%	0.6%	45.1%	2.0%	7.7%	2.8%	6.8%	2.3%	24.8%	72.9%	100%
RECR	Post Closure	Selenium	Toddler	0.3%	0.0%	1.7%	0.3%	0.0%	0.0%	0.1%	0.1%	0.0%	3.6%	3.0%	63.3%	3.0%	24.5%	0.3%	2.0%	97.7%	100%
URBN	Base	Arsenic	Toddler	86.0%	0.0%	0.0%	0.0%	2.2%	0.0%	5.6%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.2%	0.0%	11.8%	100%
URBN	Base	Barium	Toddler	59.1%	0.0%	0.0%	0.0%	5.1%	0.0%	20.7%	15.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.2%	0.0%	35.8%	100%
URBN	Base	Beryllium	Toddler	87.7%	0.0%	0.0%	0.0%	7.5%	0.0%	2.5%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.3%	0.0%	4.7%	100%
URBN	Base	Chromium	Toddler	82.2%	0.0%	0.0%	0.0%	7.1%	0.0%	4.4%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	89.3%	0.0%	10.7%	100%
URBN	Base	Cobalt	Toddler	70.3%	0.0%	0.0%	0.0%	6.0%	0.0%	15.3%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.3%	0.0%	23.7%	100%
URBN	Base	Iron	Toddler	87.2%	0.0%	0.0%	0.0%	7.5%	0.0%	3.8%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	94.7%	0.0%	5.3%	100%
URBN	Base	Lead	Toddler	76.5%	0.0%	0.0%	0.0%	0.4%	0.0%	11.3%	11.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.9%	0.0%	23.1%	100%
URBN	Base	Manganese	Toddler	21.5%	0.0%	0.0%	0.0%	1.8%	0.0%	58.4%	18.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.3%	0.0%	76.7%	100%
URBN	Base	Mercury	Toddler	6.6%	0.0%	0.0%	0.0%	5.7%	0.0%	65.0%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.3%	0.0%	87.7%	100%
URBN	Base	Molybdenum	Toddler	20.7%	0.0%	0.0%	0.0%	1.8%	0.0%	56.3%	21.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.5%	0.0%	77.5%	100%
URBN	Base	Selenium	Toddler	62.6%	0.0%	0.0%	0.0%	0.5%	0.0%	13.3%	23.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	63.2%	0.0%	36.8%	100%
URBN	Project	Arsenic	Toddler	86.0%	0.0%	0.0%	0.0%	2.2%	0.0%	5.6%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.2%	0.0%	11.8%	100%
URBN	Project	Barium	Toddler	59.2%	0.0%	0.0%	0.0%	5.1%	0.0%	20.7%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.3%	0.0%	35.7%	100%
URBN	Project	Beryllium	Toddler	87.7%	0.0%	0.0%	0.0%	7.5%	0.0%	2.6%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.2%	0.0%	4.8%	100%
URBN	Project	Chromium	Toddler	82.2%	0.0%	0.0%	0.0%	7.1%	0.0%	4.4%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	89.3%	0.0%	10.7%	100%
URBN	Project	Cobalt	Toddler	70.3%	0.0%	0.0%	0.0%	6.0%	0.0%	15.3%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.3%	0.0%	23.7%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Project	Iron	Toddler	87.2%	0.0%	0.0%	0.0%	7.5%	0.0%	3.8%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	94.7%	0.0%	5.3%	100%
URBN	Project	Lead	Toddler	76.5%	0.0%	0.0%	0.0%	0.4%	0.0%	11.3%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.9%	0.0%	23.1%	100%
URBN	Project	Manganese	Toddler	21.5%	0.0%	0.0%	0.0%	1.9%	0.0%	58.3%	18.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.4%	0.0%	76.6%	100%
URBN	Project	Mercury	Toddler	6.6%	0.0%	0.0%	0.0%	5.7%	0.0%	65.0%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.4%	0.0%	87.6%	100%
URBN	Project	Molybdenum	Toddler	21.1%	0.0%	0.0%	0.0%	1.8%	0.0%	56.0%	21.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.9%	0.0%	77.1%	100%
URBN	Project	Selenium	Toddler	62.7%	0.0%	0.0%	0.0%	0.5%	0.0%	13.3%	23.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	63.3%	0.0%	36.7%	100%
URBN	Closure	Arsenic	Toddler	86.0%	0.0%	0.0%	0.0%	2.2%	0.0%	5.6%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.2%	0.0%	11.8%	100%
URBN	Closure	Barium	Toddler	59.2%	0.0%	0.0%	0.0%	5.1%	0.0%	20.7%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.3%	0.0%	35.7%	100%
URBN	Closure	Beryllium	Toddler	87.7%	0.0%	0.0%	0.0%	7.5%	0.0%	2.6%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.2%	0.0%	4.8%	100%
URBN	Closure	Chromium	Toddler	82.2%	0.0%	0.0%	0.0%	7.1%	0.0%	4.4%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	89.3%	0.0%	10.7%	100%
URBN	Closure	Cobalt	Toddler	70.3%	0.0%	0.0%	0.0%	6.0%	0.0%	15.3%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.3%	0.0%	23.7%	100%
URBN	Closure	Iron	Toddler	87.2%	0.0%	0.0%	0.0%	7.5%	0.0%	3.8%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	94.7%	0.0%	5.3%	100%
URBN	Closure	Lead	Toddler	76.5%	0.0%	0.0%	0.0%	0.4%	0.0%	11.3%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.9%	0.0%	23.1%	100%
URBN	Closure	Manganese	Toddler	21.5%	0.0%	0.0%	0.0%	1.9%	0.0%	58.3%	18.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.4%	0.0%	76.6%	100%
URBN	Closure	Mercury	Toddler	6.6%	0.0%	0.0%	0.0%	5.7%	0.0%	65.0%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.4%	0.0%	87.6%	100%
URBN	Closure	Molybdenum	Toddler	21.1%	0.0%	0.0%	0.0%	1.8%	0.0%	56.0%	21.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.9%	0.0%	77.1%	100%
URBN	Closure	Selenium	Toddler	62.7%	0.0%	0.0%	0.0%	0.5%	0.0%	13.3%	23.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	63.3%	0.0%	36.7%	100%
URBN	Post Closure	Arsenic	Toddler	86.0%	0.0%	0.0%	0.0%	2.2%	0.0%	5.6%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.2%	0.0%	11.8%	100%
URBN	Post Closure	Barium	Toddler	59.2%	0.0%	0.0%	0.0%	5.1%	0.0%	20.7%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.3%	0.0%	35.7%	100%
URBN	Post Closure	Beryllium	Toddler	87.7%	0.0%	0.0%	0.0%	7.5%	0.0%	2.6%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.2%	0.0%	4.8%	100%
URBN	Post Closure	Chromium	Toddler	82.2%	0.0%	0.0%	0.0%	7.1%	0.0%	4.4%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	89.3%	0.0%	10.7%	100%
URBN	Post Closure	Cobalt	Toddler	70.3%	0.0%	0.0%	0.0%	6.0%	0.0%	15.3%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.3%	0.0%	23.7%	100%
URBN	Post Closure	Iron	Toddler	87.2%	0.0%	0.0%	0.0%	7.5%	0.0%	3.8%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	94.7%	0.0%	5.3%	100%
URBN	Post Closure	Lead	Toddler	76.5%	0.0%	0.0%	0.0%	0.4%	0.0%	11.3%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.9%	0.0%	23.1%	100%
URBN	Post Closure	Manganese	Toddler	21.5%	0.0%	0.0%	0.0%	1.9%	0.0%	58.3%	18.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.4%	0.0%	76.6%	100%
URBN	Post Closure	Mercury	Toddler	6.6%	0.0%	0.0%	0.0%	5.7%	0.0%	65.0%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.4%	0.0%	87.6%	100%
URBN	Post Closure	Molybdenum	Toddler	21.1%	0.0%	0.0%	0.0%	1.8%	0.0%	56.0%	21.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.9%	0.0%	77.1%	100%
URBN	Post Closure	Selenium	Toddler	62.7%	0.0%	0.0%	0.0%	0.5%	0.0%	13.3%	23.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	63.3%	0.0%	36.7%	100%
COMM	Base	Arsenic	Toddler	95.1%	2.5%	0.0%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Barium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Beryllium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Chromium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Cobalt	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Iron	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Lead	Toddler	97.0%	2.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Manganese	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Mercury	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Molybdenum	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Selenium	Toddler	96.7%	2.5%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Arsenic	Toddler	95.1%	2.5%	0.0%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Barium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Beryllium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Chromium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Cobalt	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Iron	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Lead	Toddler	97.0%	2.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Manganese	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Mercury	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Molybdenum	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Selenium	Toddler	96.7%	2.5%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Arsenic	Toddler	95.1%	2.5%	0.0%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Barium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Beryllium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Chromium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Cobalt	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Iron	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Closure	Lead	Toddler	97.0%	2.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Manganese	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Mercury	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Molybdenum	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Selenium	Toddler	96.7%	2.5%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Arsenic	Toddler	95.1%	2.5%	0.0%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Barium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Beryllium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Chromium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Cobalt	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Iron	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Lead	Toddler	97.0%	2.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Manganese	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Mercury	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Molybdenum	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Selenium	Toddler	96.7%	2.5%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	Arsenic	Child	5.8%	0.0%	38.1%	5.2%	0.9%	1.1%	11.1%	13.0%	0.7%	15.3%	0.3%	6.8%	0.5%	1.3%	6.8%	43.2%	50.0%	100%
RESI	Base	Barium	Child	2.9%	0.0%	15.1%	2.0%	1.5%	4.6%	29.5%	22.6%	1.8%	18.1%	0.0%	0.0%	0.0%	1.8%	4.4%	17.2%	78.4%	100%
RESI	Base	Beryllium	Child	1.4%	0.0%	21.4%	2.9%	0.7%	0.2%	1.1%	1.1%	0.1%	55.2%	0.0%	0.0%	0.1%	15.8%	2.1%	24.3%	73.6%	100%
RESI	Base	Chromium	Child	7.4%	0.0%	7.9%	1.1%	3.8%	1.8%	11.4%	17.3%	0.7%	6.2%	6.6%	3.6%	11.5%	20.7%	11.2%	8.9%	79.9%	100%
RESI	Base	Cobalt	Child	4.4%	0.0%	4.2%	0.5%	2.3%	2.9%	28.3%	16.3%	1.1%	5.6%	0.9%	13.2%	5.3%	15.0%	6.8%	4.7%	88.5%	100%
RESI	Base	Iron	Child	14.6%	0.0%	0.4%	0.1%	7.6%	2.6%	18.6%	7.6%	1.0%	3.8%	5.2%	11.0%	7.2%	20.3%	22.2%	0.5%	77.3%	100%
RESI	Base	Lead	Child	3.1%	0.0%	4.7%	0.5%	0.1%	2.1%	13.3%	14.5%	0.8%	0.0%	0.0%	19.0%	6.9%	34.9%	3.2%	5.3%	91.6%	100%
RESI	Base	Manganese	Child	0.6%	0.0%	0.3%	0.0%	0.3%	20.1%	51.2%	16.8%	7.7%	0.5%	0.4%	0.3%	1.1%	0.6%	1.0%	0.3%	98.7%	100%
RESI	Base	Mercury	Child	0.0%	0.0%	0.1%	0.0%	0.0%	0.4%	1.3%	0.5%	0.1%	89.0%	0.1%	5.9%	0.6%	1.9%	0.0%	0.2%	99.8%	100%
RESI	Base	Molybdenum	Child	0.3%	0.0%	5.7%	0.8%	0.1%	7.0%	21.9%	8.6%	2.7%	30.3%	3.1%	7.6%	4.5%	7.5%	0.4%	6.5%	93.1%	100%
RESI	Base	Selenium	Child	0.0%	0.0%	1.5%	0.2%	0.0%	0.0%	0.2%	0.5%	0.0%	8.1%	8.4%	45.2%	11.2%	24.6%	0.0%	1.7%	98.2%	100%
RESI	Project	Arsenic	Child	3.9%	0.0%	44.1%	6.0%	0.6%	0.7%	7.6%	8.4%	0.6%	17.7%	0.3%	8.4%	0.4%	1.2%	4.5%	50.1%	45.4%	100%
RESI	Project	Barium	Child	2.7%	0.0%	17.4%	2.4%	1.4%	4.3%	27.1%	20.3%	1.7%	20.8%	0.0%	0.0%	0.0%	1.9%	4.1%	19.8%	76.1%	100%
RESI	Project	Beryllium	Child	1.2%	0.0%	21.7%	2.9%	0.6%	0.2%	1.2%	0.9%	0.1%	55.9%	0.0%	0.0%	0.1%	15.0%	1.8%	24.7%	73.5%	100%
RESI	Project	Chromium	Child	6.8%	0.0%	7.1%	1.0%	3.5%	1.8%	11.0%	15.7%	0.8%	5.6%	7.0%	3.9%	13.1%	22.7%	10.3%	8.1%	81.6%	100%
RESI	Project	Cobalt	Child	2.1%	0.0%	20.4%	2.5%	1.1%	1.4%	13.4%	7.6%	0.5%	27.1%	0.5%	9.8%	3.3%	10.3%	3.2%	22.9%	73.9%	100%
RESI	Project	Iron	Child	10.4%	0.0%	1.5%	0.2%	5.4%	2.1%	14.3%	5.3%	1.0%	12.5%	5.5%	11.4%	7.6%	22.9%	15.9%	1.7%	82.4%	100%
RESI	Project	Lead	Child	4.0%	0.0%	5.3%	0.6%	0.1%	2.7%	17.4%	18.5%	1.1%	0.0%	0.0%	7.0%	10.8%	32.4%	4.1%	5.9%	90.0%	100%
RESI	Project	Manganese	Child	0.6%	0.0%	2.3%	0.3%	0.3%	18.9%	48.2%	15.8%	7.3%	3.9%	0.5%	0.1%	1.6%	0.2%	0.9%	2.6%	96.4%	100%
RESI	Project	Mercury	Child	0.0%	0.0%	0.1%	0.0%	0.0%	0.4%	1.4%	0.5%	0.1%	88.5%	0.1%	6.2%	0.6%	2.0%	0.0%	0.2%	99.8%	100%
RESI	Project	Molybdenum	Child	0.1%	0.0%	10.3%	1.4%	0.0%	2.1%	6.5%	2.5%	0.8%	54.9%	2.2%	7.4%	4.8%	7.1%	0.1%	11.7%	88.2%	100%
RESI	Project	Selenium	Child	0.0%	0.0%	1.4%	0.2%	0.0%	0.0%	0.1%	0.2%	0.0%	7.6%	4.4%	55.1%	6.4%	24.6%	0.0%	1.6%	98.4%	100%
RESI	Closure	Arsenic	Child	4.6%	0.0%	41.0%	5.6%	0.7%	0.9%	9.1%	10.0%	0.7%	16.5%	0.3%	8.6%	0.5%	1.3%	5.4%	46.6%	48.0%	100%
RESI	Closure	Barium	Child	2.7%	0.0%	17.3%	2.3%	1.4%	4.3%	27.2%	20.3%	1.7%	20.8%	0.0%	0.0%	0.0%	1.9%	4.1%	19.7%	76.2%	100%
RESI	Closure	Beryllium	Child	1.3%	0.0%	21.1%	2.9%	0.7%	0.2%	1.4%	1.0%	0.1%	54.3%	0.0%	0.0%	0.1%	16.8%	2.1%	24.0%	74.0%	100%
RESI	Closure	Chromium	Child	6.9%	0.0%	6.7%	0.9%	3.6%	1.8%	11.2%	16.0%	0.8%	5.3%	7.1%	3.8%	13.4%	22.4%	10.6%	7.6%	81.8%	100%
RESI	Closure	Cobalt	Child	2.6%	0.0%	16.1%	1.9%	1.4%	1.7%	16.5%	9.4%	0.7%	21.5%	0.6%	11.1%	4.1%	12.5%	4.0%	18.1%	77.9%	100%
RESI	Closure	Iron	Child	10.9%	0.0%	1.3%	0.2%	5.7%	2.2%	14.8%	5.5%	1.0%	10.6%	5.7%	11.0%	7.9%	23.2%	16.5%	1.4%	82.0%	100%
RESI	Closure	Lead	Child	4.0%	0.0%	5.0%	0.6%	0.1%	2.8%	17.6%	18.7%	1.1%	0.0%	0.0%	6.8%	10.9%	32.4%	4.2%	5.6%	90.2%	100%
RESI	Closure	Manganese	Child	0.6%	0.0%	1.7%	0.2%	0.3%	19.3%	49.1%	16.1%	7.4%	2.9%	0.5%	0.0%	1.6%	0.1%	1.0%	1.9%	97.1%	100%
RESI	Closure	Mercury	Child	0.0%	0.0%	0.1%	0.0%	0.0%	0.4%	1.4%	0.5%	0.1%	88.5%	0.1%	6.2%	0.6%	2.0%	0.0%	0.2%	99.8%	100%
RESI	Closure	Molybdenum	Child	0.1%	0.0%	9.6%	1.3%	0.1%	2.6%	8.3%	3.2%	1.0%	51.1%	2.8%	6.9%	6.1%	6.8%	0.2%	10.9%	88.9%	100%
RESI	Closure	Selenium	Child	0.0%	0.0%	1.3%	0.2%	0.0%	0.0%	0.1%	0.3%	0.0%	7.2%	5.6%	52.5%	8.0%	24.7%	0.0%	1.5%	98.5%	100%
RESI	Post Closure	Arsenic	Child	6.1%	0.0%	30.9%	4.2%	1.0%	1.2%	12.1%	13.3%	0.9%	12.4%	0.4%	14.9%	0.7%	1.9%	7.1%	35.1%	57.8%	100%
RESI	Post Closure	Barium	Child	2.7%	0.0%	17.2%	2.3%	1.4%	4.3%	27.3%	20.5%	1.7%	20.6%	0.0%	0.0%	0.0%	1.9%	4.1%	19.5%	76.4%	100%
RESI	Post Closure	Beryllium	Child	1.7%	0.0%	19.6%	2.7%	0.9%	0.3%	1.7%	1.3%	0.2%	50.4%	0.0%	0.0%	0.1%	21.2%	2.6%	22.2%	75.2%	100%
RESI	Post Closure	Chromium	Child	7.1%	0.0%	5.9%	0.8%	3.7%	1.9%	11.6%	16.5%	0.8%	4.6%	7.4%	3.6%	13.8%	22.3%	10.9%	6.7%	82.4%	100%
RESI	Post Closure	Cobalt	Child	4.0%	0.0%	3.2%	0.4%	2.1%	2.6%	25.7%	14.5%	1.1%	4.3%	1.0%	15.9%	6.3%	18.9%	6.2%	3.6%	90.3%	100%
RESI	Post Closure	Iron	Child	11.1%	0.0%	1.0%	0.1%	5.8%	2.2%	15.1%	5.6%	1.0%	8.2%	5.8%	11.9%	8.1%	24.1%	16.8%	1.1%	82.1%	100%
RESI	Post Closure	Lead	Child	4.1%	0.0%	4.2%	0.5%	0.1%	2.8%	17.9%	19.1%	1.1%	0.0%	0.0%	6.4%	11.2%	32.6%	4.3%	4.6%	91.1%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RESI	Post Closure	Manganese	Child	0.6%	0.0%	1.6%	0.2%	0.3%	19.4%	49.3%	16.2%	7.4%	2.6%	0.5%	0.0%	1.6%	0.1%	1.0%	1.8%	97.3%	100%
RESI	Post Closure	Mercury	Child	0.0%	0.0%	0.1%	0.0%	0.0%	0.4%	1.5%	0.5%	0.2%	88.2%	0.1%	6.3%	0.6%	2.1%	0.0%	0.2%	99.8%	100%
RESI	Post Closure	Molybdenum	Child	0.1%	0.0%	7.4%	1.0%	0.1%	3.0%	9.4%	3.7%	1.2%	39.3%	3.2%	12.6%	6.9%	12.1%	0.2%	8.4%	91.4%	100%
RESI	Post Closure	Selenium	Child	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	1.9%	3.1%	63.5%	4.4%	26.4%	0.0%	0.4%	99.6%	100%
RECR	Base	Arsenic	Child	9.2%	0.0%	60.0%	8.1%	1.4%	0.3%	3.5%	4.1%	0.2%	10.2%	0.1%	2.1%	0.2%	0.4%	10.7%	68.2%	21.2%	100%
RECR	Base	Barium	Child	7.0%	0.0%	36.6%	5.0%	3.6%	2.2%	14.3%	10.9%	0.9%	18.6%	0.0%	0.0%	0.0%	0.9%	10.6%	41.6%	47.8%	100%
RECR	Base	Beryllium	Child	2.6%	0.0%	40.1%	5.4%	1.4%	0.1%	0.4%	0.4%	0.0%	43.7%	0.0%	0.0%	0.0%	5.9%	3.9%	45.5%	50.6%	100%
RECR	Base	Chromium	Child	19.6%	0.0%	21.0%	2.8%	10.3%	1.0%	6.1%	9.2%	0.4%	7.0%	3.5%	1.9%	6.1%	11.0%	29.9%	23.8%	46.3%	100%
RECR	Base	Cobalt	Child	14.6%	0.0%	13.9%	1.7%	7.6%	1.9%	18.6%	10.7%	0.7%	7.8%	0.6%	8.7%	3.5%	9.8%	22.2%	15.5%	62.2%	100%
RECR	Base	Iron	Child	37.4%	0.0%	1.2%	0.2%	19.5%	1.3%	9.5%	3.9%	0.5%	4.1%	2.7%	5.7%	3.7%	10.4%	56.9%	1.3%	41.8%	100%
RECR	Base	Lead	Child	11.5%	0.0%	17.7%	2.0%	0.4%	1.6%	10.0%	10.8%	0.6%	0.0%	0.0%	14.2%	5.2%	26.1%	11.9%	19.6%	68.5%	100%
RECR	Base	Manganese	Child	3.0%	0.0%	1.3%	0.2%	1.6%	19.0%	48.5%	15.9%	7.3%	0.9%	0.4%	0.3%	1.0%	0.5%	4.6%	1.5%	93.9%	100%
RECR	Base	Mercury	Child	0.0%	0.0%	0.3%	0.0%	0.1%	0.2%	0.7%	0.2%	0.1%	94.2%	0.0%	2.9%	0.3%	1.0%	0.1%	0.4%	99.5%	100%
RECR	Base	Molybdenum	Child	0.9%	0.0%	17.6%	2.4%	0.4%	4.3%	13.6%	5.3%	1.7%	39.8%	1.9%	4.7%	2.8%	4.6%	1.3%	20.0%	78.7%	100%
RECR	Base	Selenium	Child	0.2%	0.0%	6.5%	0.9%	0.0%	0.0%	0.2%	0.4%	0.0%	14.8%	7.2%	38.9%	9.7%	21.2%	0.2%	7.4%	92.4%	100%
RECR	Project	Arsenic	Child	5.7%	0.0%	65.2%	8.8%	0.9%	0.2%	2.3%	2.5%	0.2%	11.1%	0.1%	2.5%	0.1%	0.3%	6.6%	74.1%	19.3%	100%
RECR	Project	Barium	Child	6.2%	0.0%	39.8%	5.4%	3.2%	2.0%	12.4%	9.3%	0.8%	20.2%	0.0%	0.0%	0.0%	0.9%	9.4%	45.1%	45.5%	100%
RECR	Project	Beryllium	Child	2.2%	0.0%	40.4%	5.5%	1.2%	0.1%	0.5%	0.3%	0.0%	44.1%	0.0%	0.0%	0.0%	5.6%	3.4%	45.9%	50.7%	100%
RECR	Project	Chromium	Child	18.9%	0.0%	19.8%	2.7%	9.9%	1.0%	6.1%	8.7%	0.4%	6.6%	3.9%	2.2%	7.3%	12.6%	28.7%	22.4%	48.8%	100%
RECR	Project	Cobalt	Child	4.5%	0.0%	43.5%	5.2%	2.3%	0.6%	5.7%	3.2%	0.2%	24.5%	0.2%	4.2%	1.4%	4.4%	6.8%	48.7%	44.5%	100%
RECR	Project	Iron	Child	28.3%	0.0%	4.0%	0.5%	14.8%	1.1%	7.7%	2.9%	0.5%	14.3%	3.0%	6.2%	4.1%	12.4%	43.1%	4.6%	52.3%	100%
RECR	Project	Lead	Child	14.3%	0.0%	18.9%	2.1%	0.4%	2.0%	12.4%	13.2%	0.8%	0.0%	0.0%	5.0%	7.7%	23.1%	14.7%	21.1%	64.2%	100%
RECR	Project	Manganese	Child	2.6%	0.0%	9.7%	1.3%	1.4%	15.9%	40.6%	13.3%	6.1%	7.0%	0.4%	0.0%	1.3%	0.1%	4.0%	11.0%	85.0%	100%
RECR	Project	Mercury	Child	0.0%	0.0%	0.3%	0.0%	0.1%	0.2%	0.7%	0.3%	0.1%	93.9%	0.0%	3.1%	0.3%	1.0%	0.1%	0.4%	99.5%	100%
RECR	Project	Molybdenum	Child	0.2%	0.0%	24.6%	3.3%	0.1%	1.0%	3.1%	1.2%	0.4%	55.7%	1.1%	3.5%	2.3%	3.4%	0.3%	28.0%	71.7%	100%
RECR	Project	Selenium	Child	0.1%	0.0%	6.2%	0.8%	0.0%	0.0%	0.1%	0.2%	0.0%	14.0%	3.8%	47.9%	5.5%	21.4%	0.1%	7.0%	92.9%	100%
RECR	Closure	Arsenic	Child	7.1%	0.0%	62.9%	8.5%	1.1%	0.3%	2.8%	3.1%	0.2%	10.7%	0.1%	2.6%	0.2%	0.4%	8.2%	71.4%	20.4%	100%
RECR	Closure	Barium	Child	6.2%	0.0%	39.7%	5.4%	3.2%	2.0%	12.4%	9.3%	0.8%	20.1%	0.0%	0.0%	0.0%	0.9%	9.4%	45.1%	45.5%	100%
RECR	Closure	Beryllium	Child	2.5%	0.0%	39.8%	5.4%	1.3%	0.1%	0.5%	0.4%	0.1%	43.5%	0.0%	0.0%	0.0%	6.3%	3.9%	45.2%	50.9%	100%
RECR	Closure	Chromium	Child	19.4%	0.0%	18.8%	2.5%	10.1%	1.0%	6.3%	9.0%	0.4%	6.3%	4.0%	2.1%	7.5%	12.5%	29.5%	21.3%	49.1%	100%
RECR	Closure	Cobalt	Child	6.1%	0.0%	38.0%	4.6%	3.2%	0.8%	7.8%	4.4%	0.3%	21.5%	0.3%	5.2%	1.9%	5.9%	9.3%	42.6%	48.1%	100%
RECR	Closure	Iron	Child	29.5%	0.0%	3.4%	0.5%	15.4%	1.2%	8.1%	3.0%	0.6%	12.2%	3.1%	6.0%	4.3%	12.6%	45.0%	3.9%	51.1%	100%
RECR	Closure	Lead	Child	14.5%	0.0%	18.1%	2.0%	0.5%	2.0%	12.6%	13.4%	0.8%	0.0%	0.0%	4.9%	7.9%	23.3%	15.0%	20.2%	64.9%	100%
RECR	Closure	Manganese	Child	2.8%	0.0%	7.5%	1.0%	1.4%	16.8%	42.7%	14.0%	6.4%	5.4%	0.5%	0.0%	1.4%	0.1%	4.2%	8.5%	87.3%	100%
RECR	Closure	Mercury	Child	0.0%	0.0%	0.3%	0.0%	0.1%	0.2%	0.7%	0.3%	0.1%	93.9%	0.0%	3.1%	0.3%	1.0%	0.1%	0.4%	99.5%	100%
RECR	Closure	Molybdenum	Child	0.3%	0.0%	23.8%	3.2%	0.2%	1.3%	4.1%	1.6%	0.5%	53.8%	1.4%	3.4%	3.0%	3.4%	0.5%	27.0%	72.5%	100%
RECR	Closure	Selenium	Child	0.1%	0.0%	5.9%	0.8%	0.0%	0.0%	0.1%	0.2%	0.0%	13.3%	4.9%	46.0%	7.0%	21.6%	0.1%	6.7%	93.2%	100%
RECR	Post Closure	Arsenic	Child	10.9%	0.0%	54.6%	7.4%	1.7%	0.4%	4.3%	4.7%	0.3%	9.3%	0.2%	5.3%	0.3%	0.7%	12.6%	62.0%	25.4%	100%
RECR	Post Closure	Barium	Child	6.2%	0.0%	39.5%	5.3%	3.3%	2.0%	12.6%	9.4%	0.8%	20.0%	0.0%	0.0%	0.0%	0.9%	9.5%	44.8%	45.7%	100%
RECR	Post Closure	Beryllium	Child	3.3%	0.0%	38.3%	5.2%	1.7%	0.1%	0.7%	0.5%	0.1%	41.8%	0.0%	0.0%	0.0%	8.3%	5.1%	43.5%	51.5%	100%
RECR	Post Closure	Chromium	Child	20.3%	0.0%	16.8%	2.3%	10.6%	1.1%	6.6%	9.4%	0.5%	5.6%	4.2%	2.1%	7.8%	12.7%	31.0%	19.1%	50.0%	100%
RECR	Post Closure	Cobalt	Child	14.1%	0.0%	11.1%	1.3%	7.3%	1.8%	17.8%	10.1%	0.7%	6.3%	0.7%	11.1%	4.4%	13.2%	21.4%	12.5%	66.1%	100%
RECR	Post Closure	Iron	Child	30.5%	0.0%	2.7%	0.4%	16.0%	1.2%	8.3%	3.1%	0.6%	9.6%	3.2%	6.6%	4.5%	13.3%	46.5%	3.1%	50.4%	100%
RECR	Post Closure	Lead	Child	15.2%	0.0%	15.3%	1.7%	0.5%	2.1%	13.2%	14.1%	0.8%	0.0%	0.0%	4.7%	8.2%	24.0%	15.7%	17.1%	67.2%	100%
RECR	Post Closure	Manganese	Child	2.8%	0.0%	6.9%	0.9%	1.5%	17.0%	43.3%	14.2%	6.5%	4.9%	0.5%	0.0%	1.4%	0.1%	4.2%	7.8%	88.0%	100%
RECR	Post Closure	Mercury	Child	0.0%	0.0%	0.3%	0.0%	0.1%	0.2%	0.7%	0.3%	0.1%	93.7%	0.0%	3.2%	0.3%	1.0%	0.1%	0.4%	99.5%	100%
RECR	Post Closure	Molybdenum	Child	0.4%	0.0%	20.7%	2.8%	0.2%	1.7%	5.3%	2.1%	0.7%	46.8%	1.8%	7.1%	3.9%	6.8%	0.6%	23.5%	76.0%	100%
RECR	Post Closure	Selenium	Child	0.1%	0.0%	1.7%	0.2%	0.0%	0.0%	0.1%	0.1%	0.0%	4.0%	2.9%	61.2%	4.2%	25.4%	0.1%	2.0%	98.0%	100%
URBN	Base	Arsenic	Child	50.5%	0.0%	0.0%	0.0%	7.9%	0.0%	19.1%	22.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	58.5%	0.0%	41.5%	100%
URBN	Base	Barium	Child	19.4%	0.0%	0.0%	0.0%	10.2%	0.0%	39.9%	30.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	29.6%	0.0%	70.4%	100%
URBN	Base	Beryllium	Child	54.2%	0.0%	0.0%	0.0%	28.3%	0.0%	8.9%	8.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.6%	0.0%	17.4%	100%
URBN	Base	Chromium	Child	43.4%	0.0%	0.0%	0.0%	22.7%	0.0%	13.5%	20.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.1%	0.0%	33.9%	100%
URBN	Base	Cobalt	Child	28.3%	0.0%	0.0%	0.0%	14.8%	0.0%	36.1%	20.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.2%	0.0%	56.8%	100%
URBN	Base	Iron	Child	53.1%	0.0%	0.0%	0.0%	27.8%	0.0%	13.5%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.9%	0.0%	19.1%	100%
URBN	Base	Lead	Child	35.2%	0.0%	0.0%	0.0%	1.1%	0.0%	30.5%	33.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.3%	0.0%	63.7%	100%
URBN	Base	Manganese	Child	4.4%	0.0%	0.0%	0.0%	2.3%	0.0%	70.2%	23.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	93.3%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Base	Mercury	Child	1.2%	0.0%	0.0%	0.0%	6.2%	0.0%	67.9%	24.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	92.6%	100%
URBN	Base	Molybdenum	Child	4.2%	0.0%	0.0%	0.0%	2.2%	0.0%	67.1%	26.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%	0.0%	93.6%	100%
URBN	Base	Selenium	Child	21.8%	0.0%	0.0%	0.0%	1.1%	0.0%	27.0%	50.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.9%	0.0%	77.1%	100%
URBN	Project	Arsenic	Child	50.5%	0.0%	0.0%	0.0%	7.9%	0.0%	19.3%	22.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	58.4%	0.0%	41.6%	100%
URBN	Project	Barium	Child	19.5%	0.0%	0.0%	0.0%	10.2%	0.0%	39.9%	30.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	29.7%	0.0%	70.3%	100%
URBN	Project	Beryllium	Child	54.1%	0.0%	0.0%	0.0%	28.2%	0.0%	9.3%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.3%	0.0%	17.7%	100%
URBN	Project	Chromium	Child	43.4%	0.0%	0.0%	0.0%	22.7%	0.0%	13.6%	20.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.1%	0.0%	33.9%	100%
URBN	Project	Cobalt	Child	28.4%	0.0%	0.0%	0.0%	14.8%	0.0%	36.1%	20.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.2%	0.0%	56.8%	100%
URBN	Project	Iron	Child	53.0%	0.0%	0.0%	0.0%	27.7%	0.0%	13.7%	5.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.8%	0.0%	19.2%	100%
URBN	Project	Lead	Child	35.2%	0.0%	0.0%	0.0%	1.1%	0.0%	30.6%	33.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.4%	0.0%	63.6%	100%
URBN	Project	Manganese	Child	4.4%	0.0%	0.0%	0.0%	2.3%	0.0%	70.2%	23.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	93.3%	100%
URBN	Project	Mercury	Child	1.2%	0.0%	0.0%	0.0%	6.2%	0.0%	67.9%	24.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	92.6%	100%
URBN	Project	Molybdenum	Child	4.3%	0.0%	0.0%	0.0%	2.3%	0.0%	67.0%	26.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.6%	0.0%	93.4%	100%
URBN	Project	Selenium	Child	21.8%	0.0%	0.0%	0.0%	1.1%	0.0%	27.1%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.0%	0.0%	77.0%	100%
URBN	Closure	Arsenic	Child	50.5%	0.0%	0.0%	0.0%	7.9%	0.0%	19.3%	22.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	58.4%	0.0%	41.6%	100%
URBN	Closure	Barium	Child	19.5%	0.0%	0.0%	0.0%	10.2%	0.0%	39.9%	30.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	29.7%	0.0%	70.3%	100%
URBN	Closure	Beryllium	Child	54.1%	0.0%	0.0%	0.0%	28.2%	0.0%	9.3%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.3%	0.0%	17.7%	100%
URBN	Closure	Chromium	Child	43.4%	0.0%	0.0%	0.0%	22.7%	0.0%	13.6%	20.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.1%	0.0%	33.9%	100%
URBN	Closure	Cobalt	Child	28.4%	0.0%	0.0%	0.0%	14.8%	0.0%	36.1%	20.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.2%	0.0%	56.8%	100%
URBN	Closure	Iron	Child	53.0%	0.0%	0.0%	0.0%	27.7%	0.0%	13.7%	5.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.8%	0.0%	19.2%	100%
URBN	Closure	Lead	Child	35.2%	0.0%	0.0%	0.0%	1.1%	0.0%	30.6%	33.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.4%	0.0%	63.6%	100%
URBN	Closure	Manganese	Child	4.4%	0.0%	0.0%	0.0%	2.3%	0.0%	70.2%	23.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	93.3%	100%
URBN	Closure	Mercury	Child	1.2%	0.0%	0.0%	0.0%	6.2%	0.0%	67.9%	24.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	92.6%	100%
URBN	Closure	Molybdenum	Child	4.3%	0.0%	0.0%	0.0%	2.3%	0.0%	67.0%	26.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.6%	0.0%	93.4%	100%
URBN	Closure	Selenium	Child	21.8%	0.0%	0.0%	0.0%	1.1%	0.0%	27.1%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.0%	0.0%	77.0%	100%
URBN	Post Closure	Arsenic	Child	50.5%	0.0%	0.0%	0.0%	7.9%	0.0%	19.3%	22.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	58.4%	0.0%	41.6%	100%
URBN	Post Closure	Barium	Child	19.5%	0.0%	0.0%	0.0%	10.2%	0.0%	39.9%	30.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	29.7%	0.0%	70.3%	100%
URBN	Post Closure	Beryllium	Child	54.1%	0.0%	0.0%	0.0%	28.2%	0.0%	9.3%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.3%	0.0%	17.7%	100%
URBN	Post Closure	Chromium	Child	43.4%	0.0%	0.0%	0.0%	22.7%	0.0%	13.6%	20.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.1%	0.0%	33.9%	100%
URBN	Post Closure	Cobalt	Child	28.4%	0.0%	0.0%	0.0%	14.8%	0.0%	36.1%	20.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.2%	0.0%	56.8%	100%
URBN	Post Closure	Iron	Child	53.0%	0.0%	0.0%	0.0%	27.7%	0.0%	13.7%	5.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.8%	0.0%	19.2%	100%
URBN	Post Closure	Lead	Child	35.2%	0.0%	0.0%	0.0%	1.1%	0.0%	30.6%	33.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.4%	0.0%	63.6%	100%
URBN	Post Closure	Manganese	Child	4.4%	0.0%	0.0%	0.0%	2.3%	0.0%	70.2%	23.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	93.3%	100%
URBN	Post Closure	Mercury	Child	1.2%	0.0%	0.0%	0.0%	6.2%	0.0%	67.9%	24.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	92.6%	100%
URBN	Post Closure	Molybdenum	Child	4.3%	0.0%	0.0%	0.0%	2.3%	0.0%	67.0%	26.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.6%	0.0%	93.4%	100%
URBN	Post Closure	Selenium	Child	21.8%	0.0%	0.0%	0.0%	1.1%	0.0%	27.1%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.0%	0.0%	77.0%	100%
COMM	Base	Arsenic	Child	74.7%	13.5%	0.0%	0.0%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Barium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Beryllium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Chromium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Cobalt	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Iron	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Lead	Child	82.5%	14.9%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Manganese	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Mercury	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Molybdenum	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Selenium	Child	81.1%	14.7%	0.0%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Arsenic	Child	74.7%	13.5%	0.0%	0.0%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Barium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Beryllium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Chromium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Cobalt	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Iron	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Lead	Child	82.5%	14.9%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Manganese	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Mercury	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Project	Molybdenum	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Selenium	Child	81.1%	14.7%	0.0%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Arsenic	Child	74.7%	13.5%	0.0%	0.0%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Barium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Beryllium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Chromium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Cobalt	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Iron	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Lead	Child	82.5%	14.9%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Manganese	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Mercury	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Molybdenum	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Selenium	Child	81.1%	14.7%	0.0%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Arsenic	Child	74.7%	13.5%	0.0%	0.0%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Barium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Beryllium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Chromium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Cobalt	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Iron	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Lead	Child	82.5%	14.9%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Manganese	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Mercury	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Molybdenum	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Selenium	Child	81.1%	14.7%	0.0%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	Arsenic	Adolescent	4.7%	0.0%	38.6%	3.7%	1.1%	0.9%	11.0%	14.8%	0.7%	15.0%	0.3%	6.7%	0.8%	1.7%	5.8%	42.3%	51.8%	100%
RESI	Base	Barium	Adolescent	2.3%	0.0%	15.0%	1.5%	1.7%	4.0%	28.7%	25.3%	1.7%	17.3%	0.0%	0.0%	0.0%	2.4%	4.0%	16.5%	79.5%	100%
RESI	Base	Beryllium	Adolescent	1.1%	0.0%	20.9%	2.0%	0.8%	0.2%	1.1%	1.2%	0.1%	51.9%	0.0%	0.0%	0.1%	20.6%	1.9%	23.0%	75.1%	100%
RESI	Base	Chromium	Adolescent	5.2%	0.0%	7.0%	0.7%	4.0%	1.4%	9.9%	17.3%	0.6%	5.3%	5.7%	3.1%	15.5%	24.4%	9.2%	7.6%	83.2%	100%
RESI	Base	Cobalt	Adolescent	3.3%	0.0%	3.9%	0.3%	2.5%	2.3%	25.8%	17.1%	1.0%	5.0%	0.8%	11.9%	7.5%	18.5%	5.8%	4.2%	89.9%	100%
RESI	Base	Iron	Adolescent	10.8%	0.0%	0.4%	0.0%	8.2%	2.0%	16.8%	7.9%	0.9%	3.4%	4.7%	9.9%	10.2%	24.8%	18.9%	0.5%	80.6%	100%
RESI	Base	Lead	Adolescent	2.1%	0.0%	4.1%	0.3%	0.1%	1.6%	11.4%	14.2%	0.7%	0.0%	0.0%	16.0%	9.2%	40.3%	2.2%	4.4%	93.4%	100%
RESI	Base	Manganese	Adolescent	0.5%	0.0%	0.3%	0.0%	0.4%	17.6%	50.8%	19.2%	7.6%	0.5%	0.4%	0.3%	1.7%	0.7%	0.9%	0.3%	98.8%	100%
RESI	Base	Mercury	Adolescent	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	1.4%	0.6%	0.1%	88.0%	0.1%	5.9%	0.9%	2.6%	0.0%	0.2%	99.8%	100%
RESI	Base	Molybdenum	Adolescent	0.2%	0.0%	5.5%	0.5%	0.2%	5.9%	20.9%	9.5%	2.6%	28.4%	2.9%	7.2%	6.6%	9.7%	0.4%	6.1%	93.6%	100%
RESI	Base	Selenium	Adolescent	0.0%	0.0%	1.3%	0.1%	0.0%	0.0%	0.2%	0.5%	0.0%	6.9%	7.3%	39.2%	15.3%	29.1%	0.0%	1.5%	98.5%	100%
RESI	Project	Arsenic	Adolescent	3.2%	0.0%	45.0%	4.4%	0.7%	0.7%	7.6%	9.7%	0.6%	17.4%	0.3%	8.3%	0.7%	1.6%	3.9%	49.3%	46.8%	100%
RESI	Project	Barium	Adolescent	2.1%	0.0%	17.3%	1.7%	1.6%	3.7%	26.5%	22.8%	1.7%	20.0%	0.0%	0.0%	0.0%	2.5%	3.8%	19.0%	77.2%	100%
RESI	Project	Beryllium	Adolescent	0.9%	0.0%	21.3%	2.1%	0.7%	0.2%	1.2%	1.0%	0.1%	52.8%	0.0%	0.0%	0.1%	19.6%	1.7%	23.4%	75.0%	100%
RESI	Project	Chromium	Adolescent	4.8%	0.0%	6.2%	0.6%	3.6%	1.3%	9.4%	15.5%	0.7%	4.7%	6.0%	3.4%	17.5%	26.4%	8.4%	6.8%	84.8%	100%
RESI	Project	Cobalt	Adolescent	1.6%	0.0%	19.8%	1.5%	1.2%	1.1%	12.7%	8.3%	0.5%	25.3%	0.5%	9.2%	4.8%	13.3%	2.9%	21.3%	75.8%	100%
RESI	Project	Iron	Adolescent	7.6%	0.0%	1.4%	0.1%	5.8%	1.6%	12.8%	5.5%	0.9%	11.0%	4.9%	10.1%	10.6%	27.7%	13.4%	1.5%	85.1%	100%
RESI	Project	Lead	Adolescent	2.7%	0.0%	4.5%	0.3%	0.1%	2.0%	14.6%	17.9%	0.9%	0.0%	0.0%	5.9%	14.1%	36.8%	2.9%	4.9%	92.3%	100%
RESI	Project	Manganese	Adolescent	0.5%	0.0%	2.3%	0.2%	0.4%	16.5%	47.8%	18.0%	7.2%	3.8%	0.5%	0.1%	2.4%	0.2%	0.9%	2.6%	96.6%	100%
RESI	Project	Mercury	Adolescent	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	1.4%	0.6%	0.1%	87.4%	0.1%	6.1%	0.9%	2.7%	0.0%	0.2%	99.8%	100%
RESI	Project	Molybdenum	Adolescent	0.1%	0.0%	10.1%	1.0%	0.1%	1.7%	6.2%	2.8%	0.8%	51.8%	2.1%	7.0%	7.1%	9.2%	0.1%	11.1%	88.8%	100%
RESI	Project	Selenium	Adolescent	0.0%	0.0%	1.3%	0.1%	0.0%	0.0%	0.1%	0.2%	0.0%	6.7%	3.9%	49.0%	8.8%	29.8%	0.0%	1.4%	98.6%	100%
RESI	Closure	Arsenic	Adolescent	3.8%	0.0%	41.7%	4.0%	0.9%	0.8%	9.1%	11.5%	0.7%	16.2%	0.3%	8.5%	0.8%	1.8%	4.6%	45.7%	49.6%	100%
RESI	Closure	Barium	Adolescent	2.2%	0.0%	17.3%	1.7%	1.6%	3.7%	26.5%	22.9%	1.7%	19.9%	0.0%	0.0%	0.0%	2.5%	3.8%	19.0%	77.3%	100%
RESI	Closure	Beryllium	Adolescent	1.1%	0.0%	20.6%	2.0%	0.8%	0.2%	1.3%	1.1%	0.1%	51.0%	0.0%	0.0%	0.1%	21.7%	1.9%	22.6%	75.6%	100%
RESI	Closure	Chromium	Adolescent	4.8%	0.0%	5.9%	0.6%	3.7%	1.4%	9.6%	15.8%	0.7%	4.5%	6.1%	3.2%	17.8%	26.0%	8.5%	6.4%	85.0%	100%
RESI	Closure	Cobalt	Adolescent	2.0%	0.0%	15.4%	1.2%	1.5%	1.4%	15.4%	10.1%	0.6%	19.8%	0.6%	10.3%	5.9%	15.8%	3.5%	16.6%	79.9%	100%
RESI	Closure	Iron	Adolescent	7.9%	0.0%	1.1%	0.1%	6.0%	1.7%	13.3%	5.7%	0.9%	9.3%	5.1%	9.8%	11.0%	28.1%	13.9%	1.3%	84.8%	100%
RESI	Closure	Lead	Adolescent	2.8%	0.0%	4.3%	0.3%	0.1%	2.0%	14.7%	18.0%	0.9%	0.0%	0.0%	5.6%	14.3%	36.8%	2.9%	4.6%	92.5%	100%
RESI	Closure	Manganese	Adolescent	0.5%	0.0%	1.7%	0.2%	0.4%	16.8%	48.6%	18.4%	7.3%	2.8%	0.5%	0.0%	2.5%	0.2%	0.9%	1.9%	97.2%	100%
RESI	Closure	Mercury	Adolescent	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	1.4%	0.6%	0.1%	87.4%	0.1%	6.1%	0.9%	2.7%	0.0%	0.2%	99.8%	100%
RESI	Closure	Molybdenum	Adolescent	0.1%	0.0%	9.3%	0.9%	0.1%	2.2%	7.9%	3.6%	1.0%	48.0%	2.7%	6.5%	9.0%	8.8%	0.2%	10.2%	89.6%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RESI	Closure	Selenium	Adolescent	0.0%	0.0%	1.2%	0.1%	0.0%	0.0%	0.1%	0.3%	0.0%	6.3%	4.9%	46.2%	11.1%	29.8%	0.0%	1.3%	98.6%	100%
RESI	Post Closure	Arsenic	Adolescent	5.0%	0.0%	31.2%	3.0%	1.1%	1.0%	11.9%	15.1%	0.9%	12.1%	0.4%	14.6%	1.1%	2.5%	6.1%	34.2%	59.7%	100%
RESI	Post Closure	Barium	Adolescent	2.2%	0.0%	17.1%	1.7%	1.6%	3.7%	26.7%	23.0%	1.7%	19.7%	0.0%	0.0%	0.0%	2.6%	3.8%	18.8%	77.4%	100%
RESI	Post Closure	Beryllium	Adolescent	1.3%	0.0%	18.8%	1.8%	1.0%	0.2%	1.6%	1.4%	0.2%	46.6%	0.0%	0.0%	0.1%	27.0%	2.3%	20.6%	77.1%	100%
RESI	Post Closure	Chromium	Adolescent	5.0%	0.0%	5.1%	0.5%	3.8%	1.4%	9.9%	16.2%	0.7%	3.9%	6.2%	3.1%	18.3%	25.8%	8.8%	5.6%	85.6%	100%
RESI	Post Closure	Cobalt	Adolescent	3.0%	0.0%	2.9%	0.2%	2.2%	2.1%	23.0%	15.0%	0.9%	3.8%	0.9%	14.2%	8.8%	23.0%	5.2%	3.2%	91.6%	100%
RESI	Post Closure	Iron	Adolescent	8.0%	0.0%	0.9%	0.1%	6.1%	1.7%	13.4%	5.8%	0.9%	7.2%	5.1%	10.5%	11.2%	29.0%	14.1%	1.0%	84.9%	100%
RESI	Post Closure	Lead	Adolescent	2.8%	0.0%	3.6%	0.2%	0.1%	2.1%	15.0%	18.4%	1.0%	0.0%	0.0%	5.3%	14.6%	37.0%	2.9%	3.8%	93.3%	100%
RESI	Post Closure	Manganese	Adolescent	0.5%	0.0%	1.6%	0.2%	0.4%	16.9%	48.9%	18.5%	7.4%	2.6%	0.5%	0.0%	2.5%	0.2%	0.9%	1.7%	97.4%	100%
RESI	Post Closure	Mercury	Adolescent	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	1.5%	0.6%	0.2%	87.1%	0.1%	6.3%	1.0%	2.8%	0.0%	0.2%	99.8%	100%
RESI	Post Closure	Molybdenum	Adolescent	0.1%	0.0%	7.0%	0.7%	0.1%	2.5%	8.8%	3.9%	1.1%	36.0%	3.0%	11.7%	10.0%	15.2%	0.2%	7.7%	92.1%	100%
RESI	Post Closure	Selenium	Adolescent	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.1%	0.2%	0.0%	1.7%	2.7%	56.6%	6.2%	32.2%	0.0%	0.4%	99.6%	100%
RECR	Base	Arsenic	Adolescent	7.4%	0.0%	60.5%	5.9%	1.7%	0.3%	3.4%	4.7%	0.2%	12.9%	0.1%	2.1%	0.2%	0.5%	9.1%	66.4%	24.5%	100%
RECR	Base	Barium	Adolescent	5.4%	0.0%	35.4%	3.4%	4.1%	1.9%	13.5%	11.9%	0.8%	22.4%	0.0%	0.0%	0.0%	1.1%	9.5%	38.8%	51.7%	100%
RECR	Base	Beryllium	Adolescent	1.9%	0.0%	36.1%	3.5%	1.4%	0.1%	0.4%	0.4%	0.0%	49.2%	0.0%	0.0%	0.0%	7.1%	3.3%	39.6%	57.2%	100%
RECR	Base	Chromium	Adolescent	14.8%	0.0%	19.7%	1.9%	11.2%	0.8%	5.6%	9.8%	0.3%	8.2%	3.2%	1.8%	8.8%	13.8%	26.0%	21.6%	52.4%	100%
RECR	Base	Cobalt	Adolescent	11.1%	0.0%	13.2%	1.0%	8.4%	1.5%	17.3%	11.5%	0.7%	9.3%	0.5%	8.0%	5.0%	12.4%	19.5%	14.2%	66.2%	100%
RECR	Base	Iron	Adolescent	29.3%	0.0%	1.1%	0.1%	22.3%	1.1%	9.1%	4.3%	0.5%	5.0%	2.5%	5.4%	5.6%	13.5%	51.6%	1.2%	47.1%	100%
RECR	Base	Lead	Adolescent	8.5%	0.0%	16.2%	1.1%	0.4%	1.2%	9.0%	11.2%	0.5%	0.0%	0.0%	12.7%	7.3%	31.8%	8.9%	17.3%	73.8%	100%
RECR	Base	Manganese	Adolescent	2.5%	0.0%	1.3%	0.1%	1.9%	16.6%	48.1%	18.2%	7.2%	1.2%	0.4%	0.3%	1.6%	0.7%	4.3%	1.4%	94.2%	100%
RECR	Base	Mercury	Adolescent	0.0%	0.0%	0.3%	0.0%	0.1%	0.1%	0.5%	0.2%	0.1%	95.0%	0.0%	2.3%	0.4%	1.0%	0.1%	0.3%	99.6%	100%
RECR	Base	Molybdenum	Adolescent	0.6%	0.0%	15.7%	1.5%	0.5%	3.3%	11.9%	5.4%	1.5%	44.5%	1.6%	4.1%	3.8%	5.5%	1.1%	17.3%	81.7%	100%
RECR	Base	Selenium	Adolescent	0.1%	0.0%	5.7%	0.6%	0.0%	0.0%	0.2%	0.4%	0.0%	16.2%	6.1%	33.1%	12.9%	24.6%	0.1%	6.2%	93.6%	100%
RECR	Project	Arsenic	Adolescent	4.6%	0.0%	65.5%	6.3%	1.1%	0.2%	2.2%	2.8%	0.2%	14.0%	0.1%	2.4%	0.2%	0.5%	5.7%	71.8%	22.5%	100%
RECR	Project	Barium	Adolescent	4.7%	0.0%	38.3%	3.7%	3.6%	1.6%	11.7%	10.1%	0.7%	24.3%	0.0%	0.0%	0.0%	1.1%	8.4%	42.0%	49.6%	100%
RECR	Project	Beryllium	Adolescent	1.6%	0.0%	36.4%	3.5%	1.2%	0.1%	0.4%	0.3%	0.0%	49.7%	0.0%	0.0%	0.0%	6.7%	2.8%	39.9%	57.2%	100%
RECR	Project	Chromium	Adolescent	14.1%	0.0%	18.4%	1.8%	10.7%	0.8%	5.6%	9.2%	0.4%	7.7%	3.5%	2.0%	10.3%	15.6%	24.8%	20.2%	55.1%	100%
RECR	Project	Cobalt	Adolescent	3.4%	0.0%	41.0%	3.2%	2.6%	0.5%	5.3%	3.4%	0.2%	28.9%	0.2%	3.8%	2.0%	5.5%	5.9%	44.2%	49.8%	100%
RECR	Project	Iron	Adolescent	21.3%	0.0%	3.8%	0.4%	16.2%	0.9%	7.1%	3.1%	0.5%	16.9%	2.7%	5.7%	5.9%	15.5%	37.5%	4.2%	58.3%	100%
RECR	Project	Lead	Adolescent	10.5%	0.0%	17.4%	1.2%	0.5%	1.5%	11.1%	13.6%	0.7%	0.0%	0.0%	4.5%	10.8%	28.1%	10.9%	18.6%	70.5%	100%
RECR	Project	Manganese	Adolescent	2.1%	0.0%	9.7%	0.9%	1.6%	13.7%	39.7%	15.0%	6.0%	8.7%	0.4%	0.0%	2.0%	0.2%	3.7%	10.6%	85.7%	100%
RECR	Project	Mercury	Adolescent	0.0%	0.0%	0.3%	0.0%	0.1%	0.1%	0.6%	0.2%	0.1%	94.7%	0.0%	2.4%	0.4%	1.1%	0.1%	0.3%	99.6%	100%
RECR	Project	Molybdenum	Adolescent	0.2%	0.0%	21.4%	2.1%	0.1%	0.7%	2.6%	1.2%	0.3%	60.5%	0.9%	3.0%	3.0%	3.9%	0.3%	23.5%	76.2%	100%
RECR	Project	Selenium	Adolescent	0.1%	0.0%	5.5%	0.5%	0.0%	0.0%	0.1%	0.2%	0.0%	15.6%	3.3%	41.7%	7.5%	25.4%	0.1%	6.0%	93.9%	100%
RECR	Closure	Arsenic	Adolescent	5.7%	0.0%	63.2%	6.1%	1.3%	0.2%	2.8%	3.5%	0.2%	13.5%	0.1%	2.6%	0.3%	0.5%	7.0%	69.3%	23.6%	100%
RECR	Closure	Barium	Adolescent	4.8%	0.0%	38.2%	3.7%	3.6%	1.6%	11.7%	10.1%	0.7%	24.3%	0.0%	0.0%	0.0%	1.1%	8.4%	42.0%	49.6%	100%
RECR	Closure	Beryllium	Adolescent	1.8%	0.0%	35.8%	3.5%	1.4%	0.1%	0.5%	0.4%	0.0%	48.9%	0.0%	0.0%	0.0%	7.6%	3.2%	39.3%	57.5%	100%
RECR	Closure	Chromium	Adolescent	14.5%	0.0%	17.5%	1.7%	11.0%	0.8%	5.7%	9.4%	0.4%	7.3%	3.6%	1.9%	10.6%	15.5%	25.4%	19.2%	55.4%	100%
RECR	Closure	Cobalt	Adolescent	4.6%	0.0%	35.8%	2.8%	3.5%	0.6%	7.2%	4.7%	0.3%	25.3%	0.3%	4.8%	2.7%	7.3%	8.1%	38.6%	53.2%	100%
RECR	Closure	Iron	Adolescent	22.4%	0.0%	3.2%	0.3%	17.0%	1.0%	7.5%	3.2%	0.5%	14.5%	2.9%	5.5%	6.2%	15.9%	39.4%	3.6%	57.1%	100%
RECR	Closure	Lead	Adolescent	10.6%	0.0%	16.6%	1.1%	0.5%	1.6%	11.3%	13.9%	0.7%	0.0%	0.0%	4.3%	11.0%	28.3%	11.1%	17.7%	71.1%	100%
RECR	Closure	Manganese	Adolescent	2.2%	0.0%	7.5%	0.7%	1.7%	14.5%	41.9%	15.8%	6.3%	6.7%	0.4%	0.0%	2.1%	0.2%	3.9%	8.2%	87.9%	100%
RECR	Closure	Mercury	Adolescent	0.0%	0.0%	0.3%	0.0%	0.1%	0.1%	0.6%	0.2%	0.1%	94.7%	0.0%	2.4%	0.4%	1.1%	0.1%	0.3%	99.6%	100%
RECR	Closure	Molybdenum	Adolescent	0.2%	0.0%	20.7%	2.0%	0.2%	1.0%	3.5%	1.6%	0.4%	58.5%	1.2%	2.9%	4.0%	3.9%	0.4%	22.7%	77.0%	100%
RECR	Closure	Selenium	Adolescent	0.1%	0.0%	5.2%	0.5%	0.0%	0.0%	0.1%	0.2%	0.0%	14.8%	4.2%	39.7%	9.5%	25.6%	0.1%	5.7%	94.2%	100%
RECR	Post Closure	Arsenic	Adolescent	8.8%	0.0%	55.2%	5.4%	2.0%	0.4%	4.2%	5.4%	0.3%	11.8%	0.1%	5.2%	0.4%	0.9%	10.8%	60.6%	28.6%	100%
RECR	Post Closure	Barium	Adolescent	4.8%	0.0%	38.0%	3.7%	3.7%	1.6%	11.9%	10.2%	0.8%	24.1%	0.0%	0.0%	0.0%	1.1%	8.5%	41.7%	49.8%	100%
RECR	Post Closure	Beryllium	Adolescent	2.4%	0.0%	34.4%	3.3%	1.8%	0.1%	0.6%	0.5%	0.1%	46.9%	0.0%	0.0%	0.0%	9.9%	4.2%	37.7%	58.1%	100%
RECR	Post Closure	Chromium	Adolescent	15.1%	0.0%	15.6%	1.5%	11.5%	0.8%	6.0%	9.9%	0.4%	6.5%	3.8%	1.9%	11.1%	15.7%	26.7%	17.1%	56.2%	100%
RECR	Post Closure	Cobalt	Adolescent	10.6%	0.0%	10.5%	0.8%	8.0%	1.5%	16.4%	10.7%	0.7%	7.4%	0.6%	10.1%	6.3%	16.4%	18.6%	11.3%	70.1%	100%
RECR	Post Closure	Iron	Adolescent	23.2%	0.0%	2.6%	0.2%	17.6%	1.0%	7.8%	3.3%	0.5%	11.4%	3.0%	6.1%	6.4%	16.8%	40.8%	2.8%	56.3%	100%
RECR	Post Closure	Lead	Adolescent	11.1%	0.0%	14.0%	1.0%	0.5%	1.6%	11.8%	14.5%	0.8%	0.0%	0.0%	4.2%	11.5%	29.1%	11.6%	14.9%	73.4%	100%
RECR	Post Closure	Manganese	Adolescent	2.2%	0.0%	6.9%	0.7%	1.7%	14.7%	42.5%	16.0%	6.4%	6.2%	0.5%	0.0%	2.2%	0.2%	3.9%	7.5%	88.5%	100%
RECR	Post Closure	Mercury	Adolescent	0.0%	0.0%	0.3%	0.0%	0.1%	0.1%	0.6%	0.2%	0.1%	94.6%	0.0%	2.5%	0.4%	1.1%	0.1%	0.3%	99.6%	100%
RECR	Post Closure	Molybdenum	Adolescent	0.3%	0.0%	18.0%	1.7%	0.2%	1.3%	4.5%	2.0%	0.6%	50.9%	1.5%	6.0%	5.1%	7.8%	0.5%	19.8%	79.8%	100%
RECR	Post Closure	Selenium	Adolescent	0.0%	0.0%	1.6%	0.2%	0.0%	0.0%	0.1%	0.1%	0.0%	4.5%	2.6%	54.2%	5.9%	30.8%	0.0%	1.7%	98.2%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Base	Arsenic	Adolescent	43.1%	0.0%	0.0%	0.0%	9.8%	0.0%	20.0%	27.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.0%	0.0%	47.0%	100%
URBN	Base	Barium	Adolescent	15.4%	0.0%	0.0%	0.0%	11.7%	0.0%	38.7%	34.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.1%	0.0%	72.9%	100%
URBN	Base	Beryllium	Adolescent	45.8%	0.0%	0.0%	0.0%	34.8%	0.0%	9.2%	10.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.6%	0.0%	19.4%	100%
URBN	Base	Chromium	Adolescent	35.6%	0.0%	0.0%	0.0%	27.1%	0.0%	13.6%	23.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	62.8%	0.0%	37.2%	100%
URBN	Base	Cobalt	Adolescent	23.0%	0.0%	0.0%	0.0%	17.5%	0.0%	35.8%	23.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.4%	0.0%	59.6%	100%
URBN	Base	Iron	Adolescent	45.0%	0.0%	0.0%	0.0%	34.2%	0.0%	14.1%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	79.3%	0.0%	20.7%	100%
URBN	Base	Lead	Adolescent	29.1%	0.0%	0.0%	0.0%	1.3%	0.0%	30.9%	38.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.5%	0.0%	69.5%	100%
URBN	Base	Manganese	Adolescent	3.5%	0.0%	0.0%	0.0%	2.7%	0.0%	68.1%	25.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	93.9%	100%
URBN	Base	Mercury	Adolescent	0.9%	0.0%	0.0%	0.0%	7.0%	0.0%	64.8%	27.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%	0.0%	92.1%	100%
URBN	Base	Molybdenum	Adolescent	3.3%	0.0%	0.0%	0.0%	2.5%	0.0%	64.8%	29.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	0.0%	94.2%	100%
URBN	Base	Selenium	Adolescent	17.1%	0.0%	0.0%	0.0%	1.3%	0.0%	26.0%	55.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.4%	0.0%	81.6%	100%
URBN	Project	Arsenic	Adolescent	43.1%	0.0%	0.0%	0.0%	9.8%	0.0%	20.1%	26.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.0%	0.0%	47.0%	100%
URBN	Project	Barium	Adolescent	15.5%	0.0%	0.0%	0.0%	11.8%	0.0%	38.7%	34.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.3%	0.0%	72.7%	100%
URBN	Project	Beryllium	Adolescent	45.7%	0.0%	0.0%	0.0%	34.7%	0.0%	9.6%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.4%	0.0%	19.6%	100%
URBN	Project	Chromium	Adolescent	35.6%	0.0%	0.0%	0.0%	27.1%	0.0%	13.7%	23.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	62.7%	0.0%	37.3%	100%
URBN	Project	Cobalt	Adolescent	23.0%	0.0%	0.0%	0.0%	17.5%	0.0%	35.8%	23.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.5%	0.0%	59.5%	100%
URBN	Project	Iron	Adolescent	45.0%	0.0%	0.0%	0.0%	34.2%	0.0%	14.2%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	79.2%	0.0%	20.8%	100%
URBN	Project	Lead	Adolescent	29.1%	0.0%	0.0%	0.0%	1.3%	0.0%	30.9%	38.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.5%	0.0%	69.5%	100%
URBN	Project	Manganese	Adolescent	3.5%	0.0%	0.0%	0.0%	2.7%	0.0%	68.1%	25.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	0.0%	93.8%	100%
URBN	Project	Mercury	Adolescent	0.9%	0.0%	0.0%	0.0%	7.0%	0.0%	64.8%	27.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%	0.0%	92.1%	100%
URBN	Project	Molybdenum	Adolescent	3.4%	0.0%	0.0%	0.0%	2.6%	0.0%	64.7%	29.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%	0.0%	94.0%	100%
URBN	Project	Selenium	Adolescent	17.2%	0.0%	0.0%	0.0%	1.3%	0.0%	26.1%	55.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.5%	0.0%	81.5%	100%
URBN	Closure	Arsenic	Adolescent	43.1%	0.0%	0.0%	0.0%	9.8%	0.0%	20.1%	26.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.0%	0.0%	47.0%	100%
URBN	Closure	Barium	Adolescent	15.5%	0.0%	0.0%	0.0%	11.8%	0.0%	38.7%	34.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.3%	0.0%	72.7%	100%
URBN	Closure	Beryllium	Adolescent	45.7%	0.0%	0.0%	0.0%	34.7%	0.0%	9.6%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.4%	0.0%	19.6%	100%
URBN	Closure	Chromium	Adolescent	35.6%	0.0%	0.0%	0.0%	27.1%	0.0%	13.7%	23.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	62.7%	0.0%	37.3%	100%
URBN	Closure	Cobalt	Adolescent	23.0%	0.0%	0.0%	0.0%	17.5%	0.0%	35.8%	23.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.5%	0.0%	59.5%	100%
URBN	Closure	Iron	Adolescent	45.0%	0.0%	0.0%	0.0%	34.2%	0.0%	14.2%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	79.2%	0.0%	20.8%	100%
URBN	Closure	Lead	Adolescent	29.1%	0.0%	0.0%	0.0%	1.3%	0.0%	30.9%	38.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.5%	0.0%	69.5%	100%
URBN	Closure	Manganese	Adolescent	3.5%	0.0%	0.0%	0.0%	2.7%	0.0%	68.1%	25.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	0.0%	93.8%	100%
URBN	Closure	Mercury	Adolescent	0.9%	0.0%	0.0%	0.0%	7.0%	0.0%	64.8%	27.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%	0.0%	92.1%	100%
URBN	Closure	Molybdenum	Adolescent	3.4%	0.0%	0.0%	0.0%	2.6%	0.0%	64.7%	29.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%	0.0%	94.0%	100%
URBN	Closure	Selenium	Adolescent	17.2%	0.0%	0.0%	0.0%	1.3%	0.0%	26.1%	55.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.5%	0.0%	81.5%	100%
URBN	Post Closure	Arsenic	Adolescent	43.1%	0.0%	0.0%	0.0%	9.8%	0.0%	20.1%	26.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.0%	0.0%	47.0%	100%
URBN	Post Closure	Barium	Adolescent	15.5%	0.0%	0.0%	0.0%	11.8%	0.0%	38.7%	34.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.3%	0.0%	72.7%	100%
URBN	Post Closure	Beryllium	Adolescent	45.7%	0.0%	0.0%	0.0%	34.7%	0.0%	9.6%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.4%	0.0%	19.6%	100%
URBN	Post Closure	Chromium	Adolescent	35.6%	0.0%	0.0%	0.0%	27.1%	0.0%	13.7%	23.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	62.7%	0.0%	37.3%	100%
URBN	Post Closure	Cobalt	Adolescent	23.0%	0.0%	0.0%	0.0%	17.5%	0.0%	35.8%	23.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.5%	0.0%	59.5%	100%
URBN	Post Closure	Iron	Adolescent	45.0%	0.0%	0.0%	0.0%	34.2%	0.0%	14.2%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	79.2%	0.0%	20.8%	100%
URBN	Post Closure	Lead	Adolescent	29.1%	0.0%	0.0%	0.0%	1.3%	0.0%	30.9%	38.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.5%	0.0%	69.5%	100%
URBN	Post Closure	Manganese	Adolescent	3.5%	0.0%	0.0%	0.0%	2.7%	0.0%	68.1%	25.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	0.0%	93.8%	100%
URBN	Post Closure	Mercury	Adolescent	0.9%	0.0%	0.0%	0.0%	7.0%	0.0%	64.8%	27.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%	0.0%	92.1%	100%
URBN	Post Closure	Molybdenum	Adolescent	3.4%	0.0%	0.0%	0.0%	2.6%	0.0%	64.7%	29.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%	0.0%	94.0%	100%
URBN	Post Closure	Selenium	Adolescent	17.2%	0.0%	0.0%	0.0%	1.3%	0.0%	26.1%	55.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.5%	0.0%	81.5%	100%
URBN	Base	Arsenic	Adolescent	70.3%	13.7%	0.0%	0.0%	16.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Barium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Beryllium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Chromium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Cobalt	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Iron	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Lead	Adolescent	80.6%	15.7%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Manganese	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Mercury	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Molybdenum	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Base	Selenium	Adolescent	78.7%	15.3%	0.0%	0.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Arsenic	Adolescent	70.3%	13.7%	0.0%	0.0%	16.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Project	Barium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Beryllium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Chromium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Cobalt	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Iron	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Lead	Adolescent	80.6%	15.7%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Manganese	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Mercury	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Molybdenum	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	Selenium	Adolescent	78.7%	15.3%	0.0%	0.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Arsenic	Adolescent	70.3%	13.7%	0.0%	0.0%	16.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Barium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Beryllium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Chromium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Cobalt	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Iron	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Lead	Adolescent	80.6%	15.7%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Manganese	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Mercury	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Molybdenum	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	Selenium	Adolescent	78.7%	15.3%	0.0%	0.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Arsenic	Adolescent	70.3%	13.7%	0.0%	0.0%	16.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Barium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Beryllium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Chromium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Cobalt	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Iron	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Lead	Adolescent	80.6%	15.7%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Manganese	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Mercury	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Molybdenum	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	Selenium	Adolescent	78.7%	15.3%	0.0%	0.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	Arsenic	Adult	4.0%	0.0%	48.8%	3.0%	1.0%	0.7%	10.6%	10.3%	0.7%	12.6%	0.3%	5.9%	0.7%	1.4%	5.0%	51.7%	43.3%	100%
RESI	Base	Barium	Adult	2.1%	0.0%	21.0%	1.3%	1.8%	3.5%	30.5%	19.5%	1.8%	16.1%	0.0%	0.0%	0.0%	2.3%	4.0%	22.2%	73.8%	100%
RESI	Base	Beryllium	Adult	1.0%	0.0%	28.4%	1.7%	0.8%	0.1%	1.1%	0.9%	0.1%	46.9%	0.0%	0.0%	0.1%	18.8%	1.8%	30.1%	68.1%	100%
RESI	Base	Chromium	Adult	4.9%	0.0%	9.9%	0.6%	4.2%	1.2%	10.7%	13.6%	0.6%	5.0%	5.6%	3.1%	17.0%	23.4%	9.2%	10.5%	80.3%	100%
RESI	Base	Cobalt	Adult	3.2%	0.0%	5.6%	0.3%	2.7%	2.1%	28.1%	13.5%	1.1%	4.8%	0.8%	11.8%	8.3%	17.8%	5.9%	5.9%	88.3%	100%
RESI	Base	Iron	Adult	10.3%	0.0%	0.6%	0.0%	8.8%	1.9%	18.3%	6.3%	1.0%	3.2%	4.6%	9.8%	11.3%	24.0%	19.1%	0.6%	80.3%	100%
RESI	Base	Lead	Adult	2.1%	0.0%	5.9%	0.2%	0.1%	1.4%	12.5%	11.3%	0.7%	0.0%	0.0%	16.1%	10.3%	39.3%	2.2%	6.2%	91.7%	100%
RESI	Base	Manganese	Adult	0.5%	0.0%	0.4%	0.0%	0.4%	16.1%	55.3%	15.2%	8.3%	0.4%	0.4%	0.3%	1.9%	0.7%	0.9%	0.4%	98.7%	100%
RESI	Base	Mercury	Adult	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%	1.5%	0.5%	0.2%	87.4%	0.1%	6.1%	1.0%	2.6%	0.0%	0.2%	99.7%	100%
RESI	Base	Molybdenum	Adult	0.2%	0.0%	7.8%	0.5%	0.2%	5.3%	22.5%	7.4%	2.8%	26.9%	2.8%	7.1%	7.3%	9.3%	0.4%	8.3%	91.3%	100%
RESI	Base	Selenium	Adult	0.0%	0.0%	1.9%	0.1%	0.0%	0.0%	0.2%	0.4%	0.0%	6.6%	7.2%	38.7%	16.8%	28.0%	0.0%	2.0%	97.9%	100%
RESI	Project	Arsenic	Adult	2.6%	0.0%	55.1%	3.4%	0.7%	0.5%	7.1%	6.5%	0.5%	14.2%	0.2%	7.1%	0.7%	1.3%	3.3%	58.5%	38.2%	100%
RESI	Project	Barium	Adult	2.0%	0.0%	23.9%	1.5%	1.7%	3.2%	27.8%	17.4%	1.8%	18.4%	0.0%	0.0%	0.0%	2.4%	3.7%	25.4%	70.9%	100%
RESI	Project	Beryllium	Adult	0.8%	0.0%	28.8%	1.8%	0.7%	0.2%	1.2%	0.7%	0.1%	47.6%	0.0%	0.0%	0.1%	17.9%	1.6%	30.6%	67.9%	100%
RESI	Project	Chromium	Adult	4.5%	0.0%	8.8%	0.5%	3.8%	1.2%	10.2%	12.1%	0.7%	4.5%	5.9%	3.3%	19.1%	25.3%	8.3%	9.4%	82.3%	100%
RESI	Project	Cobalt	Adult	1.5%	0.0%	26.6%	1.2%	1.2%	1.0%	13.0%	6.1%	0.5%	22.7%	0.5%	8.6%	5.0%	12.1%	2.7%	27.8%	69.5%	100%
RESI	Project	Iron	Adult	7.3%	0.0%	1.9%	0.1%	6.2%	1.5%	13.9%	4.3%	0.9%	10.4%	4.9%	10.0%	11.7%	26.8%	13.5%	2.1%	84.5%	100%
RESI	Project	Lead	Adult	2.6%	0.0%	6.5%	0.3%	0.1%	1.9%	16.0%	14.2%	1.0%	0.0%	0.0%	5.9%	15.7%	35.8%	2.8%	6.8%	90.4%	100%
RESI	Project	Manganese	Adult	0.5%	0.0%	3.3%	0.2%	0.4%	15.0%	51.6%	14.1%	7.8%	3.6%	0.5%	0.1%	2.7%	0.2%	0.9%	3.5%	95.6%	100%
RESI	Project	Mercury	Adult	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%	1.6%	0.5%	0.2%	86.9%	0.1%	6.3%	1.1%	2.8%	0.0%	0.2%	99.7%	100%
RESI	Project	Molybdenum	Adult	0.1%	0.0%	14.1%	0.9%	0.1%	1.6%	6.6%	2.2%	0.8%	48.4%	2.0%	6.8%	7.7%	8.8%	0.1%	15.0%	84.9%	100%
RESI	Project	Selenium	Adult	0.0%	0.0%	1.9%	0.1%	0.0%	0.0%	0.1%	0.2%	0.0%	6.4%	3.9%	48.7%	9.8%	28.9%	0.0%	2.0%	98.0%	100%
RESI	Closure	Arsenic	Adult	3.1%	0.0%	51.8%	3.2%	0.8%	0.6%	8.6%	7.9%	0.6%	13.4%	0.3%	7.4%	0.8%	1.5%	3.9%	55.0%	41.1%	100%
RESI	Closure	Barium	Adult	2.0%	0.0%	23.8%	1.5%	1.7%	3.3%	27.9%	17.4%	1.8%	18.3%	0.0%	0.0%	0.0%	2.4%	3.7%	25.3%	71.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RESI	Closure	Beryllium	Adult	1.0%	0.0%	27.9%	1.7%	0.8%	0.2%	1.3%	0.8%	0.1%	46.1%	0.0%	0.0%	0.1%	19.9%	1.8%	29.6%	68.6%	100%
RESI	Closure	Chromium	Adult	4.6%	0.0%	8.3%	0.5%	3.9%	1.2%	10.4%	12.4%	0.7%	4.2%	6.0%	3.2%	19.5%	25.0%	8.5%	8.8%	82.6%	100%
RESI	Closure	Cobalt	Adult	1.8%	0.0%	21.0%	1.0%	1.5%	1.2%	16.0%	7.6%	0.7%	18.0%	0.6%	9.7%	6.2%	14.6%	3.4%	22.0%	74.6%	100%
RESI	Closure	Iron	Adult	7.5%	0.0%	1.6%	0.1%	6.5%	1.5%	14.4%	4.5%	1.0%	8.9%	5.0%	9.7%	12.2%	27.1%	14.0%	1.7%	84.3%	100%
RESI	Closure	Lead	Adult	2.7%	0.0%	6.2%	0.2%	0.1%	1.9%	16.1%	14.3%	1.0%	0.0%	0.0%	5.6%	15.9%	35.8%	2.8%	6.5%	90.7%	100%
RESI	Closure	Manganese	Adult	0.5%	0.0%	2.5%	0.2%	0.4%	15.3%	52.7%	14.4%	7.9%	2.7%	0.5%	0.0%	2.7%	0.2%	0.9%	2.6%	96.5%	100%
RESI	Closure	Mercury	Adult	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%	1.6%	0.5%	0.2%	86.9%	0.1%	6.3%	1.1%	2.8%	0.0%	0.2%	99.7%	100%
RESI	Closure	Molybdenum	Adult	0.1%	0.0%	13.1%	0.8%	0.1%	2.0%	8.4%	2.7%	1.0%	44.8%	2.6%	6.3%	9.7%	8.4%	0.2%	13.9%	86.0%	100%
RESI	Closure	Selenium	Adult	0.0%	0.0%	1.7%	0.1%	0.0%	0.0%	0.1%	0.2%	0.0%	6.0%	4.9%	45.9%	12.2%	28.8%	0.0%	1.8%	98.1%	100%
RESI	Post Closure	Arsenic	Adult	4.3%	0.0%	40.5%	2.5%	1.1%	0.9%	11.8%	10.8%	0.9%	10.5%	0.4%	13.2%	1.1%	2.2%	5.4%	42.9%	51.7%	100%
RESI	Post Closure	Barium	Adult	2.0%	0.0%	23.6%	1.4%	1.7%	3.3%	28.0%	17.5%	1.8%	18.2%	0.0%	0.0%	0.0%	2.4%	3.7%	25.1%	71.2%	100%
RESI	Post Closure	Beryllium	Adult	1.2%	0.0%	25.6%	1.6%	1.0%	0.2%	1.7%	1.0%	0.2%	42.4%	0.0%	0.0%	0.1%	24.9%	2.2%	27.2%	70.6%	100%
RESI	Post Closure	Chromium	Adult	4.7%	0.0%	7.3%	0.4%	4.0%	1.3%	10.7%	12.8%	0.7%	3.7%	6.2%	3.0%	20.1%	24.9%	8.8%	7.8%	83.5%	100%
RESI	Post Closure	Cobalt	Adult	2.8%	0.0%	4.2%	0.2%	2.4%	1.9%	25.1%	11.9%	1.0%	3.6%	0.9%	14.1%	9.7%	22.2%	5.2%	4.4%	90.4%	100%
RESI	Post Closure	Iron	Adult	7.6%	0.0%	1.3%	0.1%	6.5%	1.6%	14.6%	4.6%	1.0%	6.9%	5.1%	10.4%	12.3%	28.0%	14.2%	1.3%	84.5%	100%
RESI	Post Closure	Lead	Adult	2.7%	0.0%	5.1%	0.2%	0.1%	1.9%	16.5%	14.6%	1.0%	0.0%	0.0%	5.3%	16.3%	36.1%	2.9%	5.3%	91.8%	100%
RESI	Post Closure	Manganese	Adult	0.5%	0.0%	2.3%	0.1%	0.4%	15.4%	52.9%	14.5%	8.0%	2.4%	0.5%	0.0%	2.7%	0.2%	0.9%	2.4%	96.7%	100%
RESI	Post Closure	Mercury	Adult	0.0%	0.0%	0.2%	0.0%	0.0%	0.3%	1.7%	0.5%	0.2%	86.5%	0.1%	6.5%	1.1%	2.8%	0.0%	0.2%	99.7%	100%
RESI	Post Closure	Molybdenum	Adult	0.1%	0.0%	9.9%	0.6%	0.1%	2.2%	9.4%	3.1%	1.2%	33.8%	2.9%	11.4%	10.9%	14.5%	0.2%	10.5%	89.4%	100%
RESI	Post Closure	Selenium	Adult	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	1.6%	2.7%	56.7%	6.9%	31.3%	0.0%	0.5%	99.5%	100%
RECR	Base	Arsenic	Adult	5.7%	0.0%	69.8%	4.3%	1.5%	0.2%	3.0%	3.0%	0.2%	9.9%	0.1%	1.7%	0.2%	0.4%	7.2%	74.1%	18.7%	100%
RECR	Base	Barium	Adult	4.6%	0.0%	45.0%	2.7%	3.9%	1.5%	13.1%	8.4%	0.8%	19.0%	0.0%	0.0%	0.0%	1.0%	8.5%	47.7%	43.8%	100%
RECR	Base	Beryllium	Adult	1.6%	0.0%	45.8%	2.8%	1.4%	0.0%	0.4%	0.3%	0.0%	41.6%	0.0%	0.0%	0.0%	6.1%	2.9%	48.6%	48.5%	100%
RECR	Base	Chromium	Adult	13.2%	0.0%	26.4%	1.6%	11.3%	0.7%	5.7%	7.2%	0.3%	7.4%	3.0%	1.6%	9.1%	12.5%	24.5%	28.0%	47.5%	100%
RECR	Base	Cobalt	Adult	10.1%	0.0%	18.1%	0.8%	8.7%	1.3%	18.1%	8.7%	0.7%	8.5%	0.5%	7.6%	5.3%	11.5%	18.8%	18.9%	62.3%	100%
RECR	Base	Iron	Adult	27.8%	0.0%	1.6%	0.1%	23.8%	1.0%	9.9%	3.4%	0.5%	4.8%	2.5%	5.3%	6.1%	13.0%	51.7%	1.7%	46.6%	100%
RECR	Base	Lead	Adult	7.7%	0.0%	22.2%	0.9%	0.4%	1.1%	9.4%	8.5%	0.6%	0.0%	0.0%	12.1%	7.7%	29.5%	8.1%	23.1%	68.8%	100%
RECR	Base	Manganese	Adult	2.3%	0.0%	1.9%	0.1%	2.0%	15.2%	52.1%	14.3%	7.8%	1.1%	0.4%	0.3%	1.8%	0.7%	4.3%	2.0%	93.7%	100%
RECR	Base	Mercury	Adult	0.0%	0.0%	0.4%	0.0%	0.1%	0.1%	0.6%	0.2%	0.1%	94.7%	0.0%	2.4%	0.4%	1.0%	0.1%	0.4%	99.5%	100%
RECR	Base	Molybdenum	Adult	0.6%	0.0%	21.6%	1.3%	0.5%	2.9%	12.4%	4.1%	1.5%	40.6%	1.6%	3.9%	4.0%	5.1%	1.0%	22.9%	76.1%	100%
RECR	Base	Selenium	Adult	0.1%	0.0%	8.0%	0.5%	0.0%	0.0%	0.2%	0.3%	0.0%	15.1%	6.0%	32.3%	14.0%	23.4%	0.1%	8.5%	91.4%	100%
RECR	Project	Arsenic	Adult	3.5%	0.0%	74.1%	4.5%	0.9%	0.1%	1.9%	1.8%	0.1%	10.5%	0.1%	1.9%	0.2%	0.3%	4.4%	78.6%	17.0%	100%
RECR	Project	Barium	Adult	4.0%	0.0%	48.2%	2.9%	3.4%	1.3%	11.2%	7.0%	0.7%	20.4%	0.0%	0.0%	0.0%	1.0%	7.4%	51.1%	41.5%	100%
RECR	Project	Beryllium	Adult	1.4%	0.0%	46.2%	2.8%	1.2%	0.0%	0.4%	0.2%	0.0%	42.0%	0.0%	0.0%	0.0%	5.7%	2.5%	49.0%	48.5%	100%
RECR	Project	Chromium	Adult	12.6%	0.0%	24.7%	1.5%	10.8%	0.7%	5.7%	6.8%	0.4%	6.9%	3.3%	1.9%	10.7%	14.2%	23.3%	26.2%	50.5%	100%
RECR	Project	Cobalt	Adult	2.8%	0.0%	50.7%	2.4%	2.4%	0.4%	5.0%	2.3%	0.2%	23.8%	0.2%	3.3%	1.9%	4.6%	5.2%	53.1%	41.7%	100%
RECR	Project	Iron	Adult	20.1%	0.0%	5.4%	0.3%	17.2%	0.8%	7.7%	2.4%	0.5%	15.9%	2.7%	5.6%	6.5%	14.8%	37.4%	5.7%	57.0%	100%
RECR	Project	Lead	Adult	9.5%	0.0%	23.6%	0.9%	0.5%	1.4%	11.5%	10.3%	0.7%	0.0%	0.0%	4.2%	11.4%	25.9%	10.0%	24.6%	65.4%	100%
RECR	Project	Manganese	Adult	1.9%	0.0%	13.4%	0.8%	1.6%	12.1%	41.7%	11.4%	6.3%	8.0%	0.4%	0.0%	2.2%	0.2%	3.6%	14.2%	82.3%	100%
RECR	Project	Mercury	Adult	0.0%	0.0%	0.4%	0.0%	0.1%	0.1%	0.6%	0.2%	0.1%	94.4%	0.0%	2.5%	0.4%	1.1%	0.1%	0.4%	99.5%	100%
RECR	Project	Molybdenum	Adult	0.1%	0.0%	28.8%	1.8%	0.1%	0.6%	2.7%	0.9%	0.3%	54.3%	0.8%	2.8%	3.1%	3.6%	0.3%	30.6%	69.2%	100%
RECR	Project	Selenium	Adult	0.1%	0.0%	7.8%	0.5%	0.0%	0.0%	0.1%	0.1%	0.0%	14.7%	3.3%	40.9%	8.2%	24.3%	0.1%	8.3%	91.7%	100%
RECR	Closure	Arsenic	Adult	4.3%	0.0%	72.2%	4.4%	1.1%	0.2%	2.4%	2.2%	0.2%	10.3%	0.1%	2.1%	0.2%	0.4%	5.5%	76.6%	18.0%	100%
RECR	Closure	Barium	Adult	4.0%	0.0%	48.1%	2.9%	3.4%	1.3%	11.2%	7.0%	0.7%	20.3%	0.0%	0.0%	0.0%	1.0%	7.4%	51.0%	41.6%	100%
RECR	Closure	Beryllium	Adult	1.6%	0.0%	45.6%	2.8%	1.3%	0.1%	0.4%	0.3%	0.0%	41.4%	0.0%	0.0%	0.0%	6.5%	2.9%	48.3%	48.8%	100%
RECR	Closure	Chromium	Adult	13.0%	0.0%	23.6%	1.4%	11.1%	0.7%	5.9%	7.0%	0.4%	6.6%	3.4%	1.8%	11.1%	14.1%	24.1%	25.0%	50.9%	100%
RECR	Closure	Cobalt	Adult	3.9%	0.0%	45.2%	2.1%	3.3%	0.5%	6.9%	3.3%	0.3%	21.2%	0.2%	4.2%	2.7%	6.3%	7.2%	47.3%	45.5%	100%
RECR	Closure	Iron	Adult	21.1%	0.0%	4.6%	0.3%	18.1%	0.9%	8.1%	2.5%	0.6%	13.7%	2.8%	5.4%	6.8%	15.2%	39.2%	4.9%	55.9%	100%
RECR	Closure	Lead	Adult	9.7%	0.0%	22.7%	0.9%	0.5%	1.4%	11.8%	10.5%	0.7%	0.0%	0.0%	4.1%	11.6%	26.1%	10.2%	23.6%	66.2%	100%
RECR	Closure	Manganese	Adult	2.0%	0.0%	10.4%	0.6%	1.7%	12.9%	44.3%	12.1%	6.7%	6.2%	0.4%	0.0%	2.3%	0.1%	3.8%	11.0%	85.2%	100%
RECR	Closure	Mercury	Adult	0.0%	0.0%	0.4%	0.0%	0.1%	0.1%	0.6%	0.2%	0.1%	94.4%	0.0%	2.5%	0.4%	1.1%	0.1%	0.4%	99.5%	100%
RECR	Closure	Molybdenum	Adult	0.2%	0.0%	27.9%	1.7%	0.2%	0.8%	3.6%	1.2%	0.4%	52.5%	1.1%	2.7%	4.2%	3.6%	0.3%	29.6%	70.1%	100%
RECR	Closure	Selenium	Adult	0.1%	0.0%	7.4%	0.4%	0.0%	0.0%	0.1%	0.2%	0.0%	13.9%	4.1%	39.0%	10.4%	24.4%	0.1%	7.8%	92.1%	100%
RECR	Post Closure	Arsenic	Adult	6.9%	0.0%	64.9%	4.0%	1.8%	0.3%	3.8%	3.5%	0.3%	9.2%	0.1%	4.2%	0.4%	0.7%	8.7%	68.9%	22.5%	100%
RECR	Post Closure	Barium	Adult	4.0%	0.0%	47.9%	2.9%	3.5%	1.3%	11.4%	7.1%	0.7%	20.2%	0.0%	0.0%	0.0%	1.0%	7.5%	50.8%	41.7%	100%
RECR	Post Closure	Beryllium	Adult	2.0%	0.0%	43.9%	2.7%	1.7%	0.1%	0.6%	0.4%	0.1%	39.9%	0.0%	0.0%	0.0%	8.5%	3.8%	46.6%	49.6%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RECR	Post Closure	Chromium	Adult	13.7%	0.0%	21.2%	1.3%	11.7%	0.7%	6.2%	7.4%	0.4%	5.9%	3.6%	1.8%	11.7%	14.4%	25.4%	22.5%	52.1%	100%
RECR	Post Closure	Cobalt	Adult	9.7%	0.0%	14.5%	0.7%	8.3%	1.3%	17.3%	8.2%	0.7%	6.8%	0.6%	9.7%	6.7%	15.4%	18.1%	15.2%	66.7%	100%
RECR	Post Closure	Iron	Adult	21.9%	0.0%	3.6%	0.2%	18.8%	0.9%	8.4%	2.6%	0.6%	10.8%	2.9%	6.0%	7.1%	16.1%	40.7%	3.9%	55.4%	100%
RECR	Post Closure	Lead	Adult	10.2%	0.0%	19.3%	0.8%	0.5%	1.5%	12.4%	11.0%	0.8%	0.0%	0.0%	4.0%	12.2%	27.2%	10.8%	20.1%	69.2%	100%
RECR	Post Closure	Manganese	Adult	2.1%	0.0%	9.6%	0.6%	1.8%	13.1%	45.1%	12.3%	6.8%	5.7%	0.4%	0.0%	2.3%	0.1%	3.9%	10.2%	86.0%	100%
RECR	Post Closure	Mercury	Adult	0.0%	0.0%	0.4%	0.0%	0.1%	0.1%	0.7%	0.2%	0.1%	94.2%	0.0%	2.6%	0.4%	1.1%	0.1%	0.4%	99.5%	100%
RECR	Post Closure	Molybdenum	Adult	0.2%	0.0%	24.4%	1.5%	0.2%	1.1%	4.7%	1.5%	0.6%	46.1%	1.4%	5.7%	5.4%	7.2%	0.4%	25.9%	73.6%	100%
RECR	Post Closure	Selenium	Adult	0.0%	0.0%	2.3%	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	4.3%	2.6%	54.0%	6.5%	29.8%	0.0%	2.4%	97.5%	100%
URBN	Base	Arsenic	Adult	43.4%	0.0%	0.0%	0.0%	11.1%	0.0%	23.0%	22.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.6%	0.0%	45.4%	100%
URBN	Base	Barium	Adult	15.3%	0.0%	0.0%	0.0%	13.1%	0.0%	43.7%	28.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.3%	0.0%	71.7%	100%
URBN	Base	Beryllium	Adult	44.1%	0.0%	0.0%	0.0%	37.7%	0.0%	10.1%	8.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	81.8%	0.0%	18.2%	100%
URBN	Base	Chromium	Adult	35.2%	0.0%	0.0%	0.0%	30.1%	0.0%	15.3%	19.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	65.3%	0.0%	34.7%	100%
URBN	Base	Cobalt	Adult	22.3%	0.0%	0.0%	0.0%	19.1%	0.0%	39.6%	19.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.3%	0.0%	58.7%	100%
URBN	Base	Iron	Adult	42.8%	0.0%	0.0%	0.0%	36.7%	0.0%	15.3%	5.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	79.5%	0.0%	20.5%	100%
URBN	Base	Lead	Adult	29.7%	0.0%	0.0%	0.0%	1.5%	0.0%	36.0%	32.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.3%	0.0%	68.7%	100%
URBN	Base	Manganese	Adult	3.3%	0.0%	0.0%	0.0%	2.8%	0.0%	73.6%	20.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	93.9%	100%
URBN	Base	Mercury	Adult	0.9%	0.0%	0.0%	0.0%	7.5%	0.0%	70.2%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	91.6%	100%
URBN	Base	Molybdenum	Adult	3.2%	0.0%	0.0%	0.0%	2.7%	0.0%	70.8%	23.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%	94.1%	100%
URBN	Base	Selenium	Adult	18.1%	0.0%	0.0%	0.0%	1.6%	0.0%	31.5%	48.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.7%	0.0%	80.3%	100%
URBN	Project	Arsenic	Adult	43.4%	0.0%	0.0%	0.0%	11.1%	0.0%	23.1%	22.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.5%	0.0%	45.5%	100%
URBN	Project	Barium	Adult	15.3%	0.0%	0.0%	0.0%	13.1%	0.0%	43.7%	27.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.4%	0.0%	71.6%	100%
URBN	Project	Beryllium	Adult	43.9%	0.0%	0.0%	0.0%	37.6%	0.0%	10.5%	8.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	81.5%	0.0%	18.5%	100%
URBN	Project	Chromium	Adult	35.2%	0.0%	0.0%	0.0%	30.1%	0.0%	15.4%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	65.3%	0.0%	34.7%	100%
URBN	Project	Cobalt	Adult	22.3%	0.0%	0.0%	0.0%	19.1%	0.0%	39.6%	19.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.4%	0.0%	58.6%	100%
URBN	Project	Iron	Adult	42.8%	0.0%	0.0%	0.0%	36.6%	0.0%	15.4%	5.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	79.4%	0.0%	20.6%	100%
URBN	Project	Lead	Adult	29.8%	0.0%	0.0%	0.0%	1.5%	0.0%	36.1%	32.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.3%	0.0%	68.7%	100%
URBN	Project	Manganese	Adult	3.3%	0.0%	0.0%	0.0%	2.8%	0.0%	73.6%	20.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	0.0%	93.8%	100%
URBN	Project	Mercury	Adult	0.9%	0.0%	0.0%	0.0%	7.5%	0.0%	70.2%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	91.6%	100%
URBN	Project	Molybdenum	Adult	3.3%	0.0%	0.0%	0.0%	2.8%	0.0%	70.7%	23.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%	0.0%	94.0%	100%
URBN	Project	Selenium	Adult	18.2%	0.0%	0.0%	0.0%	1.6%	0.0%	31.6%	48.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.8%	0.0%	80.2%	100%
URBN	Closure	Arsenic	Adult	43.4%	0.0%	0.0%	0.0%	11.1%	0.0%	23.1%	22.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.5%	0.0%	45.5%	100%
URBN	Closure	Barium	Adult	15.3%	0.0%	0.0%	0.0%	13.1%	0.0%	43.7%	27.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.4%	0.0%	71.6%	100%
URBN	Closure	Beryllium	Adult	43.9%	0.0%	0.0%	0.0%	37.6%	0.0%	10.5%	8.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	81.5%	0.0%	18.5%	100%
URBN	Closure	Chromium	Adult	35.2%	0.0%	0.0%	0.0%	30.1%	0.0%	15.4%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	65.3%	0.0%	34.7%	100%
URBN	Closure	Cobalt	Adult	22.3%	0.0%	0.0%	0.0%	19.1%	0.0%	39.6%	19.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.4%	0.0%	58.6%	100%
URBN	Closure	Iron	Adult	42.8%	0.0%	0.0%	0.0%	36.6%	0.0%	15.4%	5.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	79.4%	0.0%	20.6%	100%
URBN	Closure	Lead	Adult	29.8%	0.0%	0.0%	0.0%	1.5%	0.0%	36.1%	32.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.3%	0.0%	68.7%	100%
URBN	Closure	Manganese	Adult	3.3%	0.0%	0.0%	0.0%	2.8%	0.0%	73.6%	20.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	0.0%	93.8%	100%
URBN	Closure	Mercury	Adult	0.9%	0.0%	0.0%	0.0%	7.5%	0.0%	70.2%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	91.6%	100%
URBN	Closure	Molybdenum	Adult	3.3%	0.0%	0.0%	0.0%	2.8%	0.0%	70.7%	23.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%	0.0%	94.0%	100%
URBN	Closure	Selenium	Adult	18.2%	0.0%	0.0%	0.0%	1.6%	0.0%	31.6%	48.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.8%	0.0%	80.2%	100%
URBN	Post Closure	Arsenic	Adult	43.4%	0.0%	0.0%	0.0%	11.1%	0.0%	23.1%	22.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.5%	0.0%	45.5%	100%
URBN	Post Closure	Barium	Adult	15.3%	0.0%	0.0%	0.0%	13.1%	0.0%	43.7%	27.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.4%	0.0%	71.6%	100%
URBN	Post Closure	Beryllium	Adult	43.9%	0.0%	0.0%	0.0%	37.6%	0.0%	10.5%	8.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	81.5%	0.0%	18.5%	100%
URBN	Post Closure	Chromium	Adult	35.2%	0.0%	0.0%	0.0%	30.1%	0.0%	15.4%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	65.3%	0.0%	34.7%	100%
URBN	Post Closure	Cobalt	Adult	22.3%	0.0%	0.0%	0.0%	19.1%	0.0%	39.6%	19.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.4%	0.0%	58.6%	100%
URBN	Post Closure	Iron	Adult	42.8%	0.0%	0.0%	0.0%	36.6%	0.0%	15.4%	5.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	79.4%	0.0%	20.6%	100%
URBN	Post Closure	Lead	Adult	29.8%	0.0%	0.0%	0.0%	1.5%	0.0%	36.1%	32.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.3%	0.0%	68.7%	100%
URBN	Post Closure	Manganese	Adult	3.3%	0.0%	0.0%	0.0%	2.8%	0.0%	73.6%	20.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	0.0%	93.8%	100%
URBN	Post Closure	Mercury	Adult	0.9%	0.0%	0.0%	0.0%	7.5%	0.0%	70.2%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	91.6%	100%
URBN	Post Closure	Molybdenum	Adult	3.3%	0.0%	0.0%	0.0%	2.8%	0.0%	70.7%	23.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%	0.0%	94.0%	100%
URBN	Post Closure	Selenium	Adult	18.2%	0.0%	0.0%	0.0%	1.6%	0.0%	31.6%	48.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.8%	0.0%	80.2%	100%
COMM	Base	Arsenic	Adult	68.3%	14.2%	0.0%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Barium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Beryllium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Chromium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Base	Cobalt	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Iron	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Lead	Adult	79.4%	16.5%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Manganese	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Mercury	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Molybdenum	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	Selenium	Adult	77.3%	16.0%	0.0%	0.0%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Arsenic	Adult	68.3%	14.2%	0.0%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Barium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Beryllium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Chromium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Cobalt	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Iron	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Lead	Adult	79.4%	16.5%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Manganese	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Mercury	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Molybdenum	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Selenium	Adult	77.3%	16.0%	0.0%	0.0%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Arsenic	Adult	68.3%	14.2%	0.0%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Barium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Beryllium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Chromium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Cobalt	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Iron	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Lead	Adult	79.4%	16.5%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Manganese	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Mercury	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Molybdenum	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Selenium	Adult	77.3%	16.0%	0.0%	0.0%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Arsenic	Adult	68.3%	14.2%	0.0%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Barium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Beryllium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Chromium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Cobalt	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Iron	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Lead	Adult	79.4%	16.5%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Manganese	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Mercury	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Molybdenum	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Selenium	Adult	77.3%	16.0%	0.0%	0.0%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	Arsenic	Infant	1.4%	0.0%	98.5%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	98.5%	0.0%	100%
RESI	Project-Base	Barium	Infant	7.6%	0.0%	90.6%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.4%	90.6%	0.0%	100%
RESI	Project-Base	Beryllium	Infant	3.6%	0.0%	95.5%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	95.5%	0.0%	100%
RESI	Project-Base	Chromium	Infant	78.1%	0.0%	2.8%	0.0%	19.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	97.2%	2.8%	0.0%	100%
RESI	Project-Base	Cobalt	Infant	0.6%	0.0%	99.3%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	99.3%	0.0%	100%
RESI	Project-Base	Iron	Infant	35.0%	0.0%	56.3%	0.0%	8.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.7%	56.3%	0.0%	100%
RESI	Project-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	Manganese	Infant	2.3%	0.0%	97.2%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	97.2%	0.0%	100%
RESI	Project-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	Molybdenum	Infant	0.4%	0.0%	99.5%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	99.5%	0.0%	100%
RESI	Project-Base	Selenium	Infant	0.2%	0.0%	99.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	99.8%	0.0%	100%
RESI	Closure-Base	Arsenic	Infant	2.8%	0.0%	97.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%	97.0%	0.0%	100%
RESI	Closure-Base	Barium	Infant	7.8%	0.0%	90.3%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.7%	90.3%	0.0%	100%
RESI	Closure-Base	Beryllium	Infant	11.7%	0.0%	85.4%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.6%	85.4%	0.0%	100%
RESI	Closure-Base	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	Cobalt	Infant	0.9%	0.0%	98.8%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	98.8%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RESI	Closure-Base	Iron	Infant	40.3%	0.0%	49.8%	0.0%	9.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.2%	49.8%	0.0%	100%
RESI	Closure-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	Manganese	Infant	3.2%	0.0%	96.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	96.0%	0.0%	100%
RESI	Closure-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	Molybdenum	Infant	0.6%	0.0%	99.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	99.2%	0.0%	100%
RESI	Closure-Base	Selenium	Infant	0.3%	0.0%	99.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	99.7%	0.0%	100%
RESI	Post Closure-Base	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Post Closure-Base	Barium	Infant	8.3%	0.0%	89.7%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.3%	89.7%	0.0%	100%
RESI	Post Closure-Base	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Post Closure-Base	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Post Closure-Base	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Post Closure-Base	Iron	Infant	47.9%	0.0%	40.3%	0.0%	11.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.7%	40.3%	0.0%	100%
RESI	Post Closure-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Post Closure-Base	Manganese	Infant	3.6%	0.0%	95.5%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	95.5%	0.0%	100%
RESI	Post Closure-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Post Closure-Base	Molybdenum	Infant	1.1%	0.0%	98.6%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	98.6%	0.0%	100%
RESI	Post Closure-Base	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	Arsenic	Toddler	1.6%	0.0%	56.4%	9.4%	0.0%	0.1%	1.3%	0.1%	0.3%	18.2%	0.3%	10.8%	0.3%	1.2%	1.7%	65.8%	32.5%	100%
RESI	Project-Base	Barium	Toddler	6.3%	0.0%	37.8%	6.3%	0.5%	0.9%	6.2%	0.8%	1.2%	36.3%	0.0%	0.0%	0.0%	3.6%	6.8%	44.1%	49.1%	100%
RESI	Project-Base	Beryllium	Toddler	1.8%	0.0%	23.7%	4.0%	0.2%	0.2%	1.5%	0.0%	0.3%	48.9%	0.0%	0.0%	0.1%	19.4%	1.9%	27.6%	70.4%	100%
RESI	Project-Base	Chromium	Toddler	6.9%	0.0%	0.1%	0.0%	0.6%	0.9%	5.7%	0.3%	1.3%	0.1%	29.0%	5.8%	17.9%	31.5%	7.5%	0.1%	92.4%	100%
RESI	Project-Base	Cobalt	Toddler	0.4%	0.0%	37.3%	5.8%	0.0%	0.1%	0.4%	0.0%	0.1%	39.9%	0.2%	7.8%	1.2%	6.8%	0.5%	43.1%	56.4%	100%
RESI	Project-Base	Iron	Toddler	4.5%	0.0%	3.7%	0.6%	0.4%	0.6%	3.8%	0.0%	0.8%	24.7%	6.2%	18.3%	5.7%	30.8%	4.9%	4.3%	90.8%	100%
RESI	Project-Base	Lead	Toddler	4.4%	0.0%	0.0%	0.0%	0.0%	0.6%	3.9%	0.3%	0.8%	0.0%	0.0%	3.2%	20.4%	66.3%	4.4%	0.0%	95.6%	100%
RESI	Project-Base	Manganese	Toddler	1.5%	0.0%	32.4%	5.4%	0.1%	0.7%	3.3%	0.6%	0.6%	44.1%	2.5%	0.8%	6.3%	1.6%	1.6%	37.8%	60.5%	100%
RESI	Project-Base	Mercury	Toddler	0.2%	0.0%	0.0%	0.0%	0.2%	0.2%	1.2%	0.4%	0.1%	0.0%	33.1%	14.8%	33.5%	16.2%	0.4%	0.0%	99.6%	100%
RESI	Project-Base	Molybdenum	Toddler	0.1%	0.0%	13.6%	2.3%	0.0%	0.1%	0.3%	0.1%	0.0%	58.2%	2.2%	10.2%	3.9%	9.0%	0.1%	15.9%	84.0%	100%
RESI	Project-Base	Selenium	Toddler	0.0%	0.0%	1.6%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	6.9%	1.2%	65.0%	1.7%	23.4%	0.0%	1.9%	98.1%	100%
RESI	Closure-Base	Arsenic	Toddler	2.9%	0.0%	50.2%	8.4%	0.1%	0.2%	2.3%	0.1%	0.5%	16.2%	0.4%	16.0%	0.6%	2.0%	3.0%	58.6%	38.4%	100%
RESI	Closure-Base	Barium	Toddler	6.5%	0.0%	37.7%	6.3%	0.6%	0.9%	6.3%	0.8%	1.2%	36.3%	0.0%	0.0%	0.0%	3.4%	7.0%	44.0%	49.0%	100%
RESI	Closure-Base	Beryllium	Toddler	4.0%	0.0%	14.7%	2.5%	0.3%	0.5%	3.3%	0.1%	0.7%	30.4%	0.0%	0.0%	0.1%	43.3%	4.4%	17.2%	78.5%	100%
RESI	Closure-Base	Chromium	Toddler	7.1%	0.0%	0.0%	0.0%	0.6%	0.9%	5.9%	0.3%	1.3%	0.0%	29.8%	5.3%	18.4%	30.5%	7.7%	0.0%	92.3%	100%
RESI	Closure-Base	Cobalt	Toddler	0.7%	0.0%	34.8%	5.4%	0.1%	0.1%	0.6%	0.0%	0.1%	37.1%	0.3%	9.4%	1.9%	9.6%	0.7%	40.1%	59.1%	100%
RESI	Closure-Base	Iron	Toddler	5.8%	0.0%	3.6%	0.6%	0.5%	0.7%	4.8%	0.0%	1.1%	24.0%	7.9%	12.1%	7.2%	31.8%	6.3%	4.2%	89.6%	100%
RESI	Closure-Base	Lead	Toddler	4.4%	0.0%	0.0%	0.0%	0.0%	0.6%	3.9%	0.3%	0.8%	0.0%	0.0%	3.2%	20.4%	66.3%	4.4%	0.0%	95.6%	100%
RESI	Closure-Base	Manganese	Toddler	2.1%	0.0%	30.9%	5.2%	0.2%	1.0%	4.5%	0.9%	0.8%	42.0%	3.4%	0.0%	8.6%	0.4%	2.2%	36.1%	61.7%	100%
RESI	Closure-Base	Mercury	Toddler	0.2%	0.0%	0.0%	0.0%	0.2%	0.2%	1.2%	0.4%	0.1%	0.0%	33.1%	14.8%	33.5%	16.2%	0.4%	0.0%	99.6%	100%
RESI	Closure-Base	Molybdenum	Toddler	0.2%	0.0%	13.7%	2.3%	0.0%	0.1%	0.4%	0.1%	0.1%	58.9%	3.3%	7.9%	5.7%	7.4%	0.2%	16.0%	83.8%	100%
RESI	Closure-Base	Selenium	Toddler	0.0%	0.0%	1.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%	1.6%	65.9%	2.3%	24.1%	0.0%	1.3%	98.7%	100%
RESI	Post Closure-Base	Arsenic	Toddler	7.8%	0.0%	0.0%	0.0%	0.2%	0.6%	6.1%	0.3%	1.4%	0.0%	1.2%	74.1%	1.6%	6.7%	8.0%	0.0%	92.0%	100%
RESI	Post Closure-Base	Barium	Toddler	6.8%	0.0%	37.0%	6.2%	0.6%	1.0%	6.7%	0.9%	1.3%	35.6%	0.0%	0.0%	0.0%	3.9%	7.4%	43.2%	49.4%	100%
RESI	Post Closure-Base	Beryllium	Toddler	7.7%	0.0%	0.0%	0.0%	0.7%	1.0%	6.3%	0.1%	1.4%	0.0%	0.1%	0.1%	0.3%	82.4%	8.4%	0.0%	91.6%	100%
RESI	Post Closure-Base	Chromium	Toddler	7.8%	0.0%	0.0%	0.0%	0.7%	1.0%	6.5%	0.3%	1.4%	0.0%	32.9%	3.1%	20.3%	25.9%	8.5%	0.0%	91.5%	100%
RESI	Post Closure-Base	Cobalt	Toddler	3.3%	0.0%	0.0%	0.0%	0.3%	0.4%	3.0%	0.2%	0.6%	0.0%	1.7%	36.0%	9.3%	45.1%	3.6%	0.0%	96.4%	100%
RESI	Post Closure-Base	Iron	Toddler	5.9%	0.0%	2.5%	0.4%	0.5%	0.7%	4.9%	0.1%	1.1%	16.7%	8.1%	16.5%	7.4%	35.2%	6.4%	2.9%	90.7%	100%
RESI	Post Closure-Base	Lead	Toddler	4.4%	0.0%	0.0%	0.0%	0.0%	0.6%	3.9%	0.3%	0.8%	0.0%	0.0%	3.2%	20.4%	66.3%	4.4%	0.0%	95.6%	100%
RESI	Post Closure-Base	Manganese	Toddler	2.2%	0.0%	29.5%	4.9%	0.2%	1.1%	4.8%	0.9%	0.9%	40.2%	3.7%	0.8%	9.2%	1.6%	2.4%	34.4%	63.1%	100%
RESI	Post Closure-Base	Mercury	Toddler	0.2%	0.0%	0.0%	0.0%	0.2%	0.2%	1.2%	0.4%	0.1%	0.0%	33.1%	14.8%	33.5%	16.2%	0.4%	0.0%	99.6%	100%
RESI	Post Closure-Base	Molybdenum	Toddler	0.2%	0.0%	9.3%	1.6%	0.0%	0.1%	0.4%	0.1%	0.1%	39.7%	3.8%	20.3%	6.6%	17.8%	0.2%	10.8%	89.0%	100%
RESI	Post Closure-Base	Selenium	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	73.1%	0.8%	25.6%	0.0%	0.0%	100.0%	100%
RESI	Project-Base	Arsenic	Child	0.3%	0.0%	55.7%	7.5%	0.0%	0.2%	1.4%	0.1%	0.3%	22.4%	0.2%	10.1%	0.5%	1.2%	0.4%	63.3%	36.4%	100%
RESI	Project-Base	Barium	Child	1.1%	0.0%	36.3%	4.9%	0.6%	1.4%	6.5%	0.9%	1.3%	43.5%	0.0%	0.0%	0.0%	3.5%	1.7%	41.2%	57.1%	100%
RESI	Project-Base	Beryllium	Child	0.3%	0.0%	21.4%	2.9%	0.2%	0.3%	1.4%	0.0%	0.3%	55.1%	0.0%	0.0%	0.1%	17.9%	0.5%	24.3%	75.2%	100%
RESI	Project-Base	Chromium	Child	1.3%	0.0%	0.1%	0.0%	0.7%	1.3%	6.2%	0.3%	1.4%	0.1%	26.9%	5.4%	24.8%	31.5%	1.9%	0.1%	97.9%	100%
RESI	Project-Base	Cobalt	Child	0.1%	0.0%	34.4%	4.1%	0.0%	0.1%	0.4%	0.0%	0.1%	45.8%	0.2%	6.8%	1.6%	6.3%	0.1%	38.6%	61.3%	100%
RESI	Project-Base	Iron	Child	0.8%	0.0%	3.5%	0.5%	0.4%	0.9%	3.9%	0.0%	0.9%	29.4%	5.6%	16.5%	7.7%	29.9%	1.2%	4.0%	94.8%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RESI	Project-Base	Lead	Child	0.8%	0.0%	0.0%	0.0%	0.0%	0.9%	4.0%	0.4%	0.8%	0.0%	0.0%	2.9%	27.0%	63.3%	0.8%	0.0%	99.2%	100%
RESI	Project-Base	Manganese	Child	0.3%	0.0%	29.0%	3.9%	0.1%	1.1%	3.2%	0.7%	0.6%	49.1%	2.1%	0.7%	7.9%	1.4%	0.4%	32.9%	66.7%	100%
RESI	Project-Base	Mercury	Child	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	1.2%	0.4%	0.1%	0.0%	28.1%	12.5%	42.4%	14.8%	0.2%	0.0%	99.8%	100%
RESI	Project-Base	Molybdenum	Child	0.0%	0.0%	11.8%	1.6%	0.0%	0.1%	0.2%	0.1%	0.0%	63.1%	1.8%	8.4%	4.7%	8.0%	0.0%	13.4%	86.5%	100%
RESI	Project-Base	Selenium	Child	0.0%	0.0%	1.6%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	8.6%	1.1%	62.0%	2.4%	24.0%	0.0%	1.8%	98.2%	100%
RESI	Closure-Base	Arsenic	Child	0.5%	0.0%	50.3%	6.8%	0.1%	0.3%	2.5%	0.1%	0.6%	20.2%	0.4%	15.2%	0.8%	2.0%	0.6%	57.1%	42.3%	100%
RESI	Closure-Base	Barium	Child	1.2%	0.0%	36.3%	4.9%	0.6%	1.4%	6.7%	0.9%	1.3%	43.4%	0.0%	0.0%	0.0%	3.3%	1.8%	41.2%	57.0%	100%
RESI	Closure-Base	Beryllium	Child	0.7%	0.0%	14.0%	1.9%	0.4%	0.7%	3.4%	0.1%	0.8%	35.9%	0.0%	0.0%	0.2%	41.9%	1.1%	15.9%	83.1%	100%
RESI	Closure-Base	Chromium	Child	1.3%	0.0%	0.0%	0.0%	0.7%	1.4%	6.3%	0.3%	1.4%	0.0%	27.7%	4.9%	25.5%	30.5%	2.0%	0.0%	98.0%	100%
RESI	Closure-Base	Cobalt	Child	0.1%	0.0%	32.2%	3.9%	0.1%	0.1%	0.6%	0.0%	0.1%	42.8%	0.3%	8.2%	2.4%	9.1%	0.2%	36.1%	63.8%	100%
RESI	Closure-Base	Iron	Child	1.0%	0.0%	3.4%	0.5%	0.5%	1.1%	5.0%	0.1%	1.1%	28.6%	7.1%	11.0%	9.7%	30.9%	1.6%	3.9%	94.6%	100%
RESI	Closure-Base	Lead	Child	0.8%	0.0%	0.0%	0.0%	0.0%	0.9%	4.0%	0.4%	0.8%	0.0%	0.0%	2.9%	27.0%	63.3%	0.8%	0.0%	99.2%	100%
RESI	Closure-Base	Manganese	Child	0.3%	0.0%	27.5%	3.7%	0.2%	1.4%	4.4%	0.9%	0.8%	46.6%	2.9%	0.0%	10.8%	0.4%	0.5%	31.2%	68.2%	100%
RESI	Closure-Base	Mercury	Child	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	1.2%	0.4%	0.1%	0.0%	28.1%	12.5%	42.4%	14.8%	0.2%	0.0%	99.8%	100%
RESI	Closure-Base	Molybdenum	Child	0.0%	0.0%	11.9%	1.6%	0.0%	0.1%	0.4%	0.1%	0.1%	63.3%	2.7%	6.4%	7.0%	6.5%	0.0%	13.5%	86.5%	100%
RESI	Closure-Base	Selenium	Child	0.0%	0.0%	1.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%	1.5%	63.1%	3.2%	24.8%	0.0%	1.3%	98.7%	100%
RESI	Post Closure-Base	Arsenic	Child	1.6%	0.0%	0.0%	0.0%	0.2%	1.0%	7.3%	0.4%	1.7%	0.0%	1.2%	76.6%	2.5%	7.5%	1.8%	0.0%	98.2%	100%
RESI	Post Closure-Base	Barium	Child	1.2%	0.0%	35.7%	4.8%	0.6%	1.5%	7.1%	1.0%	1.4%	42.8%	0.0%	0.0%	0.0%	3.8%	1.9%	40.6%	57.6%	100%
RESI	Post Closure-Base	Beryllium	Child	1.5%	0.0%	0.0%	0.0%	0.8%	1.6%	7.2%	0.1%	1.6%	0.0%	0.1%	0.1%	0.4%	86.7%	2.3%	0.0%	97.7%	100%
RESI	Post Closure-Base	Chromium	Child	1.4%	0.0%	0.0%	0.0%	0.8%	1.5%	7.0%	0.3%	1.5%	0.0%	30.5%	2.9%	28.1%	25.9%	2.2%	0.0%	97.8%	100%
RESI	Post Closure-Base	Cobalt	Child	0.6%	0.0%	0.0%	0.0%	0.3%	0.7%	3.3%	0.2%	0.7%	0.0%	1.6%	33.9%	13.0%	45.6%	0.9%	0.0%	99.1%	100%
RESI	Post Closure-Base	Iron	Child	1.1%	0.0%	2.4%	0.3%	0.6%	1.1%	5.2%	0.1%	1.2%	20.3%	7.5%	15.2%	10.1%	34.9%	1.6%	2.7%	95.6%	100%
RESI	Post Closure-Base	Lead	Child	0.8%	0.0%	0.0%	0.0%	0.0%	0.9%	4.0%	0.4%	0.8%	0.0%	0.0%	2.9%	27.0%	63.3%	0.8%	0.0%	99.2%	100%
RESI	Post Closure-Base	Manganese	Child	0.4%	0.0%	26.3%	3.6%	0.2%	1.5%	4.7%	1.0%	0.8%	44.6%	3.1%	0.7%	11.6%	1.5%	0.6%	29.9%	69.5%	100%
RESI	Post Closure-Base	Mercury	Child	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	1.2%	0.4%	0.1%	0.0%	28.1%	12.5%	42.4%	14.8%	0.2%	0.0%	99.8%	100%
RESI	Post Closure-Base	Molybdenum	Child	0.0%	0.0%	8.3%	1.1%	0.0%	0.1%	0.4%	0.1%	0.1%	44.5%	3.2%	17.3%	8.4%	16.3%	0.1%	9.5%	90.5%	100%
RESI	Post Closure-Base	Selenium	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	71.5%	1.1%	26.9%	0.0%	0.0%	100.0%	100%
RESI	Project-Base	Arsenic	Adolescent	0.2%	0.0%	57.3%	5.6%	0.1%	0.2%	1.4%	0.1%	0.3%	22.2%	0.2%	10.1%	0.7%	1.6%	0.3%	62.8%	36.9%	100%
RESI	Project-Base	Barium	Adolescent	0.9%	0.0%	37.1%	3.6%	0.7%	1.2%	6.5%	1.0%	1.3%	42.8%	0.0%	0.0%	0.0%	4.8%	1.6%	40.7%	57.7%	100%
RESI	Project-Base	Beryllium	Adolescent	0.2%	0.0%	20.8%	2.0%	0.2%	0.3%	1.4%	0.0%	0.3%	51.6%	0.0%	0.0%	0.1%	23.0%	0.4%	22.8%	76.8%	100%
RESI	Project-Base	Chromium	Adolescent	0.8%	0.0%	0.1%	0.0%	0.6%	0.9%	5.0%	0.3%	1.1%	0.1%	21.5%	4.3%	31.0%	34.3%	1.5%	0.1%	98.4%	100%
RESI	Project-Base	Cobalt	Adolescent	0.1%	0.0%	34.6%	2.7%	0.0%	0.1%	0.4%	0.0%	0.1%	44.3%	0.2%	6.7%	2.4%	8.5%	0.1%	37.3%	62.6%	100%
RESI	Project-Base	Iron	Adolescent	0.6%	0.0%	3.1%	0.3%	0.4%	0.7%	3.5%	0.0%	0.8%	25.3%	4.9%	14.4%	10.4%	35.6%	1.0%	3.4%	95.5%	100%
RESI	Project-Base	Lead	Adolescent	0.5%	0.0%	0.0%	0.0%	0.0%	0.5%	2.9%	0.3%	0.6%	0.0%	0.0%	2.1%	30.5%	62.5%	0.5%	0.0%	99.5%	100%
RESI	Project-Base	Manganese	Adolescent	0.2%	0.0%	28.5%	2.8%	0.2%	0.9%	3.1%	0.7%	0.6%	46.6%	2.0%	0.7%	11.9%	1.9%	0.4%	31.3%	68.4%	100%
RESI	Project-Base	Mercury	Adolescent	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.9%	0.3%	0.1%	0.0%	21.7%	9.7%	51.3%	15.6%	0.2%	0.0%	99.8%	100%
RESI	Project-Base	Molybdenum	Adolescent	0.0%	0.0%	11.6%	1.1%	0.0%	0.1%	0.2%	0.1%	0.0%	59.6%	1.7%	8.0%	7.1%	10.4%	0.0%	12.7%	87.3%	100%
RESI	Project-Base	Selenium	Adolescent	0.0%	0.0%	1.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	1.0%	56.3%	3.4%	29.8%	0.0%	1.6%	98.4%	100%
RESI	Closure-Base	Arsenic	Adolescent	0.4%	0.0%	51.4%	5.0%	0.1%	0.3%	2.5%	0.1%	0.6%	19.9%	0.4%	15.1%	1.3%	2.7%	0.5%	56.4%	43.0%	100%
RESI	Closure-Base	Barium	Adolescent	1.0%	0.0%	37.1%	3.6%	0.7%	1.2%	6.7%	1.1%	1.3%	42.8%	0.0%	0.0%	0.0%	4.5%	1.7%	40.7%	57.6%	100%
RESI	Closure-Base	Beryllium	Adolescent	0.5%	0.0%	12.5%	1.2%	0.4%	0.6%	3.0%	0.1%	0.7%	31.0%	0.0%	0.0%	0.2%	49.8%	0.9%	13.7%	85.4%	100%
RESI	Closure-Base	Chromium	Adolescent	0.9%	0.0%	0.0%	0.0%	0.6%	1.0%	5.1%	0.3%	1.1%	0.0%	22.1%	3.9%	31.8%	33.2%	1.5%	0.0%	98.5%	100%
RESI	Closure-Base	Cobalt	Adolescent	0.1%	0.0%	31.9%	2.5%	0.1%	0.1%	0.6%	0.0%	0.1%	40.8%	0.3%	7.9%	3.6%	11.9%	0.2%	34.4%	65.5%	100%
RESI	Closure-Base	Iron	Adolescent	0.7%	0.0%	3.0%	0.3%	0.6%	0.8%	4.3%	0.1%	1.0%	24.3%	6.1%	9.4%	13.1%	36.3%	1.3%	3.3%	95.4%	100%
RESI	Closure-Base	Lead	Adolescent	0.5%	0.0%	0.0%	0.0%	0.0%	0.5%	2.9%	0.3%	0.6%	0.0%	0.0%	2.1%	30.5%	62.5%	0.5%	0.0%	99.5%	100%
RESI	Closure-Base	Manganese	Adolescent	0.3%	0.0%	26.8%	2.6%	0.2%	1.2%	4.2%	1.0%	0.7%	43.7%	2.7%	0.0%	16.1%	0.5%	0.5%	29.4%	70.2%	100%
RESI	Closure-Base	Mercury	Adolescent	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.9%	0.3%	0.1%	0.0%	21.7%	9.7%	51.3%	15.6%	0.2%	0.0%	99.8%	100%
RESI	Closure-Base	Molybdenum	Adolescent	0.0%	0.0%	11.5%	1.1%	0.0%	0.1%	0.3%	0.1%	0.1%	59.3%	2.5%	6.1%	10.4%	8.4%	0.0%	12.7%	87.3%	100%
RESI	Closure-Base	Selenium	Adolescent	0.0%	0.0%	1.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%	1.4%	56.9%	4.6%	30.6%	0.0%	1.1%	98.9%	100%
RESI	Post Closure-Base	Arsenic	Adolescent	1.3%	0.0%	0.0%	0.0%	0.3%	0.8%	7.1%	0.4%	1.7%	0.0%	1.2%	73.7%	3.7%	9.8%	1.5%	0.0%	98.5%	100%
RESI	Post Closure-Base	Barium	Adolescent	1.0%	0.0%	36.5%	3.5%	0.8%	1.3%	7.1%	1.1%	1.4%	42.1%	0.0%	0.0%	0.0%	5.2%	1.8%	40.0%	58.2%	100%
RESI	Post Closure-Base	Beryllium	Adolescent	0.9%	0.0%	0.0%	0.0%	0.7%	1.1%	5.5%	0.1%	1.2%	0.0%	0.1%	0.0%	0.4%	89.9%	1.6%	0.0%	98.4%	100%
RESI	Post Closure-Base	Chromium	Adolescent	0.9%	0.0%	0.0%	0.0%	0.7%	1.1%	5.6%	0.3%	1.2%	0.0%	24.4%	2.3%	35.2%	28.2%	1.7%	0.0%	98.3%	100%
RESI	Post Closure-Base	Cobalt	Adolescent	0.4%	0.0%	0.0%	0.0%	0.3%	0.5%	2.7%	0.2%	0.5%	0.0%	1.3%	27.3%	16.5%	50.2%	0.7%	0.0%	99.3%	100%
RESI	Post Closure-Base	Iron	Adolescent	0.8%	0.0%	2.1%	0.2%	0.6%	0.8%	4.4%	0.1%	1.0%	17.0%	6.3%	12.9%	13.4%	40.4%	1.3%	2.3%	96.4%	100%
RESI	Post Closure-Base	Lead	Adolescent	0.5%	0.0%	0.0%	0.0%	0.0%	0.5%	2.9%	0.3%	0.6%	0.0%	0.0%	2.1%	30.5%	62.5%	0.5%	0.0%	99.5%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RESI	Post Closure-Base	Manganese	Adolescent	0.3%	0.0%	25.4%	2.5%	0.2%	1.3%	4.4%	1.1%	0.8%	41.5%	2.9%	0.6%	17.1%	1.9%	0.5%	27.9%	71.6%	100%
RESI	Post Closure-Base	Mercury	Adolescent	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.9%	0.3%	0.1%	0.0%	21.7%	9.7%	51.3%	15.6%	0.2%	0.0%	99.8%	100%
RESI	Post Closure-Base	Molybdenum	Adolescent	0.0%	0.0%	7.8%	0.8%	0.0%	0.1%	0.4%	0.1%	0.1%	40.0%	2.9%	15.7%	12.0%	20.2%	0.0%	8.5%	91.4%	100%
RESI	Post Closure-Base	Selenium	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	64.7%	1.6%	33.3%	0.0%	0.0%	100.0%	100%
RESI	Project-Base	Arsenic	Adult	0.2%	0.0%	66.5%	4.0%	0.0%	0.1%	1.2%	0.1%	0.3%	17.2%	0.2%	8.1%	0.7%	1.3%	0.2%	70.6%	29.2%	100%
RESI	Project-Base	Barium	Adult	0.8%	0.0%	46.6%	2.8%	0.7%	1.0%	6.2%	0.7%	1.2%	35.9%	0.0%	0.0%	0.0%	4.1%	1.4%	49.4%	49.1%	100%
RESI	Project-Base	Beryllium	Adult	0.2%	0.0%	28.2%	1.7%	0.2%	0.2%	1.4%	0.0%	0.3%	46.5%	0.0%	0.0%	0.1%	21.1%	0.4%	29.9%	69.7%	100%
RESI	Project-Base	Chromium	Adult	0.8%	0.0%	0.1%	0.0%	0.7%	0.8%	5.3%	0.2%	1.2%	0.1%	20.8%	4.2%	33.5%	32.4%	1.4%	0.1%	98.4%	100%
RESI	Project-Base	Cobalt	Adult	0.1%	0.0%	44.0%	2.1%	0.0%	0.1%	0.4%	0.0%	0.1%	37.6%	0.2%	5.9%	2.4%	7.3%	0.1%	46.1%	53.8%	100%
RESI	Project-Base	Iron	Adult	0.6%	0.0%	4.5%	0.3%	0.5%	0.6%	3.8%	0.0%	0.8%	24.1%	4.9%	14.2%	11.5%	34.3%	1.0%	4.7%	94.2%	100%
RESI	Project-Base	Lead	Adult	0.4%	0.0%	0.0%	0.0%	0.0%	0.5%	3.1%	0.2%	0.7%	0.0%	0.0%	2.0%	33.4%	59.6%	0.5%	0.0%	99.5%	100%
RESI	Project-Base	Manganese	Adult	0.2%	0.0%	36.7%	2.2%	0.1%	0.7%	3.0%	0.5%	0.5%	40.0%	1.8%	0.6%	11.9%	1.6%	0.3%	39.0%	60.7%	100%
RESI	Project-Base	Mercury	Adult	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	1.0%	0.3%	0.1%	0.0%	20.6%	9.2%	54.2%	14.4%	0.2%	0.0%	99.8%	100%
RESI	Project-Base	Molybdenum	Adult	0.0%	0.0%	16.2%	1.0%	0.0%	0.1%	0.3%	0.1%	0.0%	55.4%	1.7%	7.8%	7.7%	9.8%	0.0%	17.2%	82.8%	100%
RESI	Project-Base	Selenium	Adult	0.0%	0.0%	2.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	1.0%	56.4%	3.8%	29.1%	0.0%	2.3%	97.7%	100%
RESI	Closure-Base	Arsenic	Adult	0.4%	0.0%	60.9%	3.7%	0.1%	0.2%	2.3%	0.1%	0.5%	15.7%	0.3%	12.4%	1.2%	2.2%	0.4%	64.6%	35.0%	100%
RESI	Closure-Base	Barium	Adult	0.8%	0.0%	46.6%	2.8%	0.7%	1.0%	6.4%	0.7%	1.3%	35.8%	0.0%	0.0%	0.0%	3.8%	1.5%	49.4%	49.1%	100%
RESI	Closure-Base	Beryllium	Adult	0.5%	0.0%	17.4%	1.1%	0.4%	0.5%	3.2%	0.0%	0.7%	28.8%	0.0%	0.0%	0.3%	47.0%	0.9%	18.5%	80.6%	100%
RESI	Closure-Base	Chromium	Adult	0.8%	0.0%	0.0%	0.0%	0.7%	0.9%	5.4%	0.2%	1.2%	0.0%	21.4%	3.8%	34.4%	31.3%	1.5%	0.0%	98.5%	100%
RESI	Closure-Base	Cobalt	Adult	0.1%	0.0%	40.9%	1.9%	0.1%	0.1%	0.6%	0.0%	0.1%	35.0%	0.3%	7.0%	3.6%	10.4%	0.1%	42.8%	57.0%	100%
RESI	Closure-Base	Iron	Adult	0.7%	0.0%	4.3%	0.3%	0.6%	0.8%	4.7%	0.0%	1.0%	23.1%	6.1%	9.3%	14.4%	34.9%	1.3%	4.5%	94.2%	100%
RESI	Closure-Base	Lead	Adult	0.4%	0.0%	0.0%	0.0%	0.0%	0.5%	3.1%	0.2%	0.7%	0.0%	0.0%	2.0%	33.4%	59.6%	0.5%	0.0%	99.5%	100%
RESI	Closure-Base	Manganese	Adult	0.2%	0.0%	34.5%	2.1%	0.2%	1.0%	4.1%	0.7%	0.7%	37.6%	2.4%	0.0%	16.0%	0.4%	0.4%	36.6%	63.0%	100%
RESI	Closure-Base	Mercury	Adult	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	1.0%	0.3%	0.1%	0.0%	20.6%	9.2%	54.2%	14.4%	0.2%	0.0%	99.8%	100%
RESI	Closure-Base	Molybdenum	Adult	0.0%	0.0%	16.0%	1.0%	0.0%	0.1%	0.4%	0.1%	0.1%	55.0%	2.4%	5.9%	11.2%	7.9%	0.0%	17.0%	82.9%	100%
RESI	Closure-Base	Selenium	Adult	0.0%	0.0%	1.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	5.2%	1.4%	56.9%	5.1%	29.8%	0.0%	1.6%	98.4%	100%
RESI	Post Closure-Base	Arsenic	Adult	1.2%	0.0%	0.0%	0.0%	0.3%	0.8%	7.7%	0.3%	1.8%	0.0%	1.2%	73.1%	4.1%	9.5%	1.5%	0.0%	98.5%	100%
RESI	Post Closure-Base	Barium	Adult	0.8%	0.0%	45.9%	2.8%	0.7%	1.0%	6.8%	0.8%	1.3%	35.3%	0.0%	0.0%	0.0%	4.4%	1.6%	48.7%	49.7%	100%
RESI	Post Closure-Base	Beryllium	Adult	0.9%	0.0%	0.0%	0.0%	0.8%	1.0%	6.1%	0.1%	1.4%	0.0%	0.1%	0.0%	0.5%	89.1%	1.7%	0.0%	98.3%	100%
RESI	Post Closure-Base	Chromium	Adult	0.9%	0.0%	0.0%	0.0%	0.7%	1.0%	5.9%	0.2%	1.3%	0.0%	23.5%	2.2%	37.8%	26.5%	1.6%	0.0%	98.4%	100%
RESI	Post Closure-Base	Cobalt	Adult	0.4%	0.0%	0.0%	0.0%	0.3%	0.4%	2.9%	0.2%	0.6%	0.0%	1.3%	27.1%	18.2%	48.5%	0.7%	0.0%	99.3%	100%
RESI	Post Closure-Base	Iron	Adult	0.7%	0.0%	3.0%	0.2%	0.6%	0.8%	4.8%	0.0%	1.1%	16.2%	6.2%	12.7%	14.8%	38.9%	1.3%	3.2%	95.5%	100%
RESI	Post Closure-Base	Lead	Adult	0.4%	0.0%	0.0%	0.0%	0.0%	0.5%	3.1%	0.2%	0.7%	0.0%	0.0%	2.0%	33.4%	59.6%	0.5%	0.0%	99.5%	100%
RESI	Post Closure-Base	Manganese	Adult	0.2%	0.0%	32.9%	2.0%	0.2%	1.1%	4.4%	0.8%	0.8%	35.8%	2.6%	0.6%	17.1%	1.6%	0.5%	34.9%	64.7%	100%
RESI	Post Closure-Base	Mercury	Adult	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	1.0%	0.3%	0.1%	0.0%	20.6%	9.2%	54.2%	14.4%	0.2%	0.0%	99.8%	100%
RESI	Post Closure-Base	Molybdenum	Adult	0.0%	0.0%	10.9%	0.7%	0.0%	0.1%	0.4%	0.1%	0.1%	37.4%	2.8%	15.3%	13.0%	19.1%	0.0%	11.6%	88.4%	100%
RESI	Post Closure-Base	Selenium	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	65.1%	1.8%	32.6%	0.0%	0.0%	100.0%	100%
RECR	Project-Base	Arsenic	Infant	1.4%	0.0%	98.5%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	98.5%	0.0%	100%
RECR	Project-Base	Barium	Infant	7.6%	0.0%	90.6%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.4%	90.6%	0.0%	100%
RECR	Project-Base	Beryllium	Infant	3.6%	0.0%	95.5%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	95.5%	0.0%	100%
RECR	Project-Base	Chromium	Infant	78.1%	0.0%	2.8%	0.0%	19.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	97.2%	2.8%	0.0%	100%
RECR	Project-Base	Cobalt	Infant	0.6%	0.0%	99.3%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	99.3%	0.0%	100%
RECR	Project-Base	Iron	Infant	35.0%	0.0%	56.3%	0.0%	8.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.7%	56.3%	0.0%	100%
RECR	Project-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Project-Base	Manganese	Infant	2.3%	0.0%	97.2%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	97.2%	0.0%	100%
RECR	Project-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Project-Base	Molybdenum	Infant	0.4%	0.0%	99.5%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	99.5%	0.0%	100%
RECR	Project-Base	Selenium	Infant	0.2%	0.0%	99.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	99.8%	0.0%	100%
RECR	Closure-Base	Arsenic	Infant	2.8%	0.0%	97.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%	97.0%	0.0%	100%
RECR	Closure-Base	Barium	Infant	7.8%	0.0%	90.3%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.7%	90.3%	0.0%	100%
RECR	Closure-Base	Beryllium	Infant	11.7%	0.0%	85.4%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.6%	85.4%	0.0%	100%
RECR	Closure-Base	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Closure-Base	Cobalt	Infant	0.9%	0.0%	98.8%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	98.8%	0.0%	100%
RECR	Closure-Base	Iron	Infant	40.3%	0.0%	49.8%	0.0%	9.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.2%	49.8%	0.0%	100%
RECR	Closure-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Closure-Base	Manganese	Infant	3.2%	0.0%	96.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	96.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RECR	Closure-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Closure-Base	Molybdenum	Infant	0.6%	0.0%	99.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	99.2%	0.0%	100%
RECR	Closure-Base	Selenium	Infant	0.3%	0.0%	99.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	99.7%	0.0%	100%
RECR	Post Closure-Base	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Post Closure-Base	Barium	Infant	8.3%	0.0%	89.7%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.3%	89.7%	0.0%	100%
RECR	Post Closure-Base	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Post Closure-Base	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Post Closure-Base	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Post Closure-Base	Iron	Infant	47.9%	0.0%	40.3%	0.0%	11.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.7%	40.3%	0.0%	100%
RECR	Post Closure-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Post Closure-Base	Manganese	Infant	3.6%	0.0%	95.5%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	95.5%	0.0%	100%
RECR	Post Closure-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Post Closure-Base	Molybdenum	Infant	1.1%	0.0%	98.6%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	98.6%	0.0%	100%
RECR	Post Closure-Base	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Project-Base	Arsenic	Toddler	2.1%	0.0%	71.0%	11.9%	0.1%	0.0%	0.3%	0.0%	0.1%	11.4%	0.1%	2.7%	0.1%	0.3%	2.1%	82.9%	15.0%	100%
RECR	Project-Base	Barium	Toddler	8.8%	0.0%	52.9%	8.8%	0.8%	0.2%	1.7%	0.2%	0.3%	25.2%	0.0%	0.0%	0.0%	1.0%	9.6%	61.7%	28.7%	100%
RECR	Project-Base	Beryllium	Toddler	3.1%	0.0%	40.8%	6.8%	0.3%	0.1%	0.5%	0.0%	0.1%	41.7%	0.0%	0.0%	0.0%	6.7%	3.3%	47.6%	49.1%	100%
RECR	Project-Base	Chromium	Toddler	26.4%	0.0%	0.5%	0.1%	2.3%	0.7%	4.4%	0.2%	1.0%	0.1%	22.2%	4.5%	13.7%	24.1%	28.6%	0.5%	70.8%	100%
RECR	Project-Base	Cobalt	Toddler	0.6%	0.0%	56.0%	8.7%	0.1%	0.0%	0.1%	0.0%	0.0%	29.6%	0.1%	2.3%	0.4%	2.0%	0.7%	64.7%	34.6%	100%
RECR	Project-Base	Iron	Toddler	13.1%	0.0%	10.6%	1.8%	1.1%	0.3%	2.2%	0.0%	0.5%	35.3%	3.6%	10.5%	3.3%	17.8%	14.3%	12.3%	73.4%	100%
RECR	Project-Base	Lead	Toddler	18.7%	0.0%	0.0%	0.0%	0.1%	0.5%	3.3%	0.3%	0.7%	0.0%	0.0%	2.7%	17.3%	56.3%	18.8%	0.0%	81.2%	100%
RECR	Project-Base	Manganese	Toddler	2.3%	0.0%	50.2%	8.4%	0.2%	0.2%	1.0%	0.2%	0.2%	33.8%	0.8%	0.3%	2.0%	0.5%	2.5%	58.6%	38.9%	100%
RECR	Project-Base	Mercury	Toddler	1.1%	0.0%	0.0%	0.0%	0.9%	0.2%	1.2%	0.4%	0.1%	0.0%	32.6%	14.5%	33.0%	15.9%	2.0%	0.0%	98.0%	100%
RECR	Project-Base	Molybdenum	Toddler	0.2%	0.0%	27.2%	4.5%	0.0%	0.0%	0.1%	0.0%	0.0%	57.7%	0.9%	4.1%	1.5%	3.6%	0.3%	31.7%	68.0%	100%
RECR	Project-Base	Selenium	Toddler	0.0%	0.0%	6.8%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	14.4%	1.0%	55.3%	1.4%	19.9%	0.0%	7.9%	92.1%	100%
RECR	Closure-Base	Arsenic	Toddler	3.9%	0.0%	67.8%	11.3%	0.1%	0.1%	0.6%	0.0%	0.1%	10.8%	0.1%	4.3%	0.2%	0.5%	4.0%	79.1%	16.8%	100%
RECR	Closure-Base	Barium	Toddler	9.1%	0.0%	52.7%	8.8%	0.8%	0.3%	1.8%	0.2%	0.3%	25.1%	0.0%	0.0%	0.0%	0.9%	9.8%	61.5%	28.6%	100%
RECR	Closure-Base	Beryllium	Toddler	8.7%	0.0%	31.8%	5.3%	0.7%	0.2%	1.4%	0.0%	0.3%	32.6%	0.0%	0.0%	0.1%	18.8%	9.5%	37.2%	53.4%	100%
RECR	Closure-Base	Chromium	Toddler	27.1%	0.0%	0.0%	0.0%	2.3%	0.7%	4.5%	0.2%	1.0%	0.0%	22.8%	4.1%	14.1%	23.3%	29.4%	0.0%	70.6%	100%
RECR	Closure-Base	Cobalt	Toddler	1.0%	0.0%	54.6%	8.5%	0.1%	0.0%	0.2%	0.0%	0.0%	28.9%	0.1%	2.9%	0.6%	3.0%	1.1%	63.1%	35.8%	100%
RECR	Closure-Base	Iron	Toddler	16.3%	0.0%	10.0%	1.7%	1.4%	0.4%	2.7%	0.0%	0.6%	33.6%	4.5%	6.8%	4.1%	18.0%	17.7%	11.7%	70.6%	100%
RECR	Closure-Base	Lead	Toddler	18.7%	0.0%	0.0%	0.0%	0.1%	0.5%	3.3%	0.3%	0.7%	0.0%	0.0%	2.7%	17.3%	56.3%	18.8%	0.0%	81.2%	100%
RECR	Closure-Base	Manganese	Toddler	3.3%	0.0%	49.0%	8.2%	0.3%	0.3%	1.4%	0.3%	0.3%	33.0%	1.1%	0.0%	2.7%	0.1%	3.6%	57.2%	39.2%	100%
RECR	Closure-Base	Mercury	Toddler	1.1%	0.0%	0.0%	0.0%	0.9%	0.2%	1.2%	0.4%	0.1%	0.0%	32.6%	14.5%	33.0%	15.9%	2.0%	0.0%	98.0%	100%
RECR	Closure-Base	Molybdenum	Toddler	0.4%	0.0%	27.3%	4.6%	0.0%	0.0%	0.2%	0.0%	0.0%	57.9%	1.3%	3.1%	2.3%	2.9%	0.4%	31.9%	67.8%	100%
RECR	Closure-Base	Selenium	Toddler	0.0%	0.0%	5.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	10.6%	1.4%	58.7%	2.0%	21.5%	0.0%	5.8%	94.2%	100%
RECR	Post Closure-Base	Arsenic	Toddler	29.5%	0.0%	0.0%	0.0%	0.8%	0.4%	4.6%	0.2%	1.1%	0.0%	0.9%	56.2%	1.2%	5.1%	30.3%	0.0%	69.7%	100%
RECR	Post Closure-Base	Barium	Toddler	9.6%	0.0%	52.1%	8.7%	0.8%	0.3%	1.9%	0.2%	0.4%	24.8%	0.0%	0.0%	0.0%	1.1%	10.5%	60.8%	28.7%	100%
RECR	Post Closure-Base	Beryllium	Toddler	28.9%	0.0%	0.0%	0.0%	2.5%	0.7%	4.7%	0.1%	1.1%	0.0%	0.1%	0.0%	0.2%	61.7%	31.4%	0.0%	68.6%	100%
RECR	Post Closure-Base	Chromium	Toddler	29.2%	0.0%	0.0%	0.0%	2.5%	0.7%	4.9%	0.2%	1.1%	0.0%	24.6%	2.3%	15.2%	19.4%	31.7%	0.0%	68.3%	100%
RECR	Post Closure-Base	Cobalt	Toddler	14.6%	0.0%	0.0%	0.0%	1.3%	0.4%	2.7%	0.2%	0.5%	0.0%	1.5%	31.4%	8.1%	39.4%	15.8%	0.0%	84.2%	100%
RECR	Post Closure-Base	Iron	Toddler	18.2%	0.0%	7.7%	1.3%	1.6%	0.5%	3.0%	0.0%	0.7%	25.6%	5.0%	10.2%	4.6%	21.8%	19.8%	8.9%	71.3%	100%
RECR	Post Closure-Base	Lead	Toddler	18.7%	0.0%	0.0%	0.0%	0.1%	0.5%	3.3%	0.3%	0.7%	0.0%	0.0%	2.7%	17.3%	56.3%	18.8%	0.0%	81.2%	100%
RECR	Post Closure-Base	Manganese	Toddler	3.6%	0.0%	48.1%	8.0%	0.3%	0.4%	1.6%	0.3%	0.3%	32.4%	1.2%	0.3%	3.0%	0.5%	3.9%	56.2%	39.9%	100%
RECR	Post Closure-Base	Mercury	Toddler	1.1%	0.0%	0.0%	0.0%	0.9%	0.2%	1.2%	0.4%	0.1%	0.0%	32.6%	14.5%	33.0%	15.9%	2.0%	0.0%	98.0%	100%
RECR	Post Closure-Base	Molybdenum	Toddler	0.5%	0.0%	22.9%	3.8%	0.0%	0.0%	0.2%	0.1%	0.0%	48.5%	1.9%	10.0%	3.3%	8.8%	0.5%	26.7%	72.8%	100%
RECR	Post Closure-Base	Selenium	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	73.1%	0.8%	25.6%	0.0%	0.0%	100.0%	100%
RECR	Project-Base	Arsenic	Child	0.4%	0.0%	73.4%	9.9%	0.1%	0.0%	0.4%	0.0%	0.1%	12.5%	0.1%	2.7%	0.1%	0.3%	0.5%	83.3%	16.2%	100%
RECR	Project-Base	Barium	Child	1.8%	0.0%	56.6%	7.7%	0.9%	0.4%	2.0%	0.3%	0.4%	28.8%	0.0%	0.0%	0.0%	1.1%	2.7%	64.3%	33.0%	100%
RECR	Project-Base	Beryllium	Child	0.6%	0.0%	41.1%	5.6%	0.3%	0.1%	0.6%	0.0%	0.1%	44.8%	0.0%	0.0%	0.0%	6.8%	0.9%	46.6%	52.5%	100%
RECR	Project-Base	Chromium	Child	5.9%	0.0%	0.6%	0.1%	3.1%	1.2%	5.7%	0.3%	1.3%	0.2%	24.9%	5.0%	22.9%	29.1%	8.9%	0.6%	90.5%	100%
RECR	Project-Base	Cobalt	Child	0.1%	0.0%	56.3%	6.8%	0.1%	0.0%	0.1%	0.0%	0.0%	31.7%	0.1%	2.2%	0.5%	2.1%	0.2%	63.0%	36.8%	100%
RECR	Project-Base	Iron	Child	2.6%	0.0%	11.4%	1.5%	1.4%	0.6%	2.6%	0.0%	0.6%	40.5%	3.7%	10.7%	5.0%	19.5%	4.0%	12.9%	83.1%	100%
RECR	Project-Base	Lead	Child	3.8%	0.0%	0.0%	0.0%	0.1%	0.8%	3.9%	0.4%	0.8%	0.0%	0.0%	2.8%	26.1%	61.3%	3.9%	0.0%	96.1%	100%
RECR	Project-Base	Manganese	Child	0.4%	0.0%	50.3%	6.8%	0.2%	0.4%	1.1%	0.2%	0.2%	36.1%	0.7%	0.2%	2.8%	0.5%	0.7%	57.1%	42.3%	100%
RECR	Project-Base	Mercury	Child	0.2%	0.0%	0.0%	0.0%	0.9%	0.3%	1.2%	0.4%	0.1%	0.0%	27.8%	12.4%	42.0%	14.6%	1.1%	0.0%	98.9%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RECR	Project-Base	Molybdenum	Child	0.0%	0.0%	26.3%	3.6%	0.0%	0.0%	0.1%	0.0%	0.0%	59.6%	0.8%	3.8%	2.1%	3.6%	0.1%	29.9%	70.0%	100%
RECR	Project-Base	Selenium	Child	0.0%	0.0%	6.9%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	15.6%	1.0%	53.0%	2.0%	20.6%	0.0%	7.8%	92.2%	100%
RECR	Closure-Base	Arsenic	Child	0.8%	0.0%	71.1%	9.6%	0.1%	0.1%	0.7%	0.0%	0.2%	12.1%	0.1%	4.3%	0.2%	0.6%	0.9%	80.7%	18.4%	100%
RECR	Closure-Base	Barium	Child	1.8%	0.0%	56.6%	7.7%	1.0%	0.4%	2.1%	0.3%	0.4%	28.7%	0.0%	0.0%	0.0%	1.0%	2.8%	64.2%	33.0%	100%
RECR	Closure-Base	Beryllium	Child	1.7%	0.0%	33.6%	4.5%	0.9%	0.4%	1.6%	0.0%	0.4%	36.6%	0.0%	0.0%	0.1%	20.1%	2.6%	38.1%	59.3%	100%
RECR	Closure-Base	Chromium	Child	6.0%	0.0%	0.0%	0.0%	3.2%	1.3%	5.9%	0.3%	1.3%	0.0%	25.7%	4.6%	23.6%	28.2%	9.2%	0.0%	90.8%	100%
RECR	Closure-Base	Cobalt	Child	0.2%	0.0%	55.0%	6.6%	0.1%	0.0%	0.2%	0.0%	0.0%	31.0%	0.1%	2.8%	0.8%	3.1%	0.3%	61.6%	38.1%	100%
RECR	Closure-Base	Iron	Child	3.4%	0.0%	11.1%	1.5%	1.8%	0.7%	3.2%	0.0%	0.7%	39.4%	4.6%	7.1%	6.3%	20.1%	5.1%	12.6%	82.3%	100%
RECR	Closure-Base	Lead	Child	3.8%	0.0%	0.0%	0.0%	0.1%	0.8%	3.9%	0.4%	0.8%	0.0%	0.0%	2.8%	26.1%	61.3%	3.9%	0.0%	96.1%	100%
RECR	Closure-Base	Manganese	Child	0.6%	0.0%	49.3%	6.7%	0.3%	0.5%	1.6%	0.3%	0.3%	35.4%	1.0%	0.0%	3.9%	0.1%	0.9%	55.9%	43.1%	100%
RECR	Closure-Base	Mercury	Child	0.2%	0.0%	0.0%	0.0%	0.9%	0.3%	1.2%	0.4%	0.1%	0.0%	27.8%	12.4%	42.0%	14.6%	1.1%	0.0%	98.9%	100%
RECR	Closure-Base	Molybdenum	Child	0.1%	0.0%	26.4%	3.6%	0.0%	0.0%	0.2%	0.0%	0.0%	59.7%	1.2%	2.9%	3.1%	2.9%	0.1%	29.9%	70.0%	100%
RECR	Closure-Base	Selenium	Child	0.0%	0.0%	5.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	11.4%	1.4%	56.4%	2.9%	22.2%	0.0%	5.7%	94.3%	100%
RECR	Post Closure-Base	Arsenic	Child	7.4%	0.0%	0.0%	0.0%	1.2%	0.9%	6.8%	0.3%	1.6%	0.0%	1.2%	71.4%	2.3%	6.9%	8.6%	0.0%	91.4%	100%
RECR	Post Closure-Base	Barium	Child	1.9%	0.0%	56.2%	7.6%	1.0%	0.5%	2.2%	0.3%	0.4%	28.5%	0.0%	0.0%	0.0%	1.2%	3.0%	63.8%	33.2%	100%
RECR	Post Closure-Base	Beryllium	Child	6.9%	0.0%	0.0%	0.0%	3.6%	1.4%	6.6%	0.1%	1.5%	0.0%	0.1%	0.1%	0.3%	79.5%	10.5%	0.0%	89.5%	100%
RECR	Post Closure-Base	Chromium	Child	6.6%	0.0%	0.0%	0.0%	3.5%	1.4%	6.4%	0.3%	1.4%	0.0%	28.1%	2.6%	25.9%	23.8%	10.1%	0.0%	89.9%	100%
RECR	Post Closure-Base	Cobalt	Child	3.0%	0.0%	0.0%	0.0%	1.6%	0.7%	3.2%	0.2%	0.7%	0.0%	1.6%	32.6%	12.6%	44.0%	4.6%	0.0%	95.4%	100%
RECR	Post Closure-Base	Iron	Child	3.8%	0.0%	8.6%	1.2%	2.0%	0.8%	3.7%	0.0%	0.8%	30.7%	5.3%	10.9%	7.2%	24.9%	5.8%	9.8%	84.4%	100%
RECR	Post Closure-Base	Lead	Child	3.8%	0.0%	0.0%	0.0%	0.1%	0.8%	3.9%	0.4%	0.8%	0.0%	0.0%	2.8%	26.1%	61.3%	3.9%	0.0%	96.1%	100%
RECR	Post Closure-Base	Manganese	Child	0.7%	0.0%	48.4%	6.6%	0.4%	0.6%	1.7%	0.4%	0.3%	34.8%	1.1%	0.2%	4.3%	0.5%	1.0%	55.0%	44.0%	100%
RECR	Post Closure-Base	Mercury	Child	0.2%	0.0%	0.0%	0.0%	0.9%	0.3%	1.2%	0.4%	0.1%	0.0%	27.8%	12.4%	42.0%	14.6%	1.1%	0.0%	98.9%	100%
RECR	Post Closure-Base	Molybdenum	Child	0.1%	0.0%	22.2%	3.0%	0.0%	0.1%	0.2%	0.1%	0.0%	50.2%	1.7%	9.2%	4.5%	8.7%	0.1%	25.2%	74.7%	100%
RECR	Post Closure-Base	Selenium	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	71.5%	1.1%	26.9%	0.0%	0.0%	100.0%	100%
RECR	Project-Base	Arsenic	Adolescent	0.3%	0.0%	73.2%	7.1%	0.1%	0.0%	0.4%	0.0%	0.1%	15.6%	0.1%	2.6%	0.2%	0.4%	0.4%	80.3%	19.3%	100%
RECR	Project-Base	Barium	Adolescent	1.3%	0.0%	53.9%	5.2%	1.0%	0.3%	1.9%	0.3%	0.4%	34.2%	0.0%	0.0%	0.0%	1.4%	2.4%	59.1%	38.5%	100%
RECR	Project-Base	Beryllium	Adolescent	0.4%	0.0%	36.7%	3.6%	0.3%	0.1%	0.5%	0.0%	0.1%	50.1%	0.0%	0.0%	0.0%	8.1%	0.7%	40.3%	59.0%	100%
RECR	Project-Base	Chromium	Adolescent	3.9%	0.0%	0.5%	0.0%	3.0%	0.9%	4.7%	0.3%	1.0%	0.2%	20.2%	4.1%	29.1%	32.2%	6.9%	0.5%	92.6%	100%
RECR	Project-Base	Cobalt	Adolescent	0.1%	0.0%	52.8%	4.1%	0.1%	0.0%	0.1%	0.0%	0.0%	37.3%	0.1%	2.0%	0.7%	2.6%	0.2%	57.0%	42.9%	100%
RECR	Project-Base	Iron	Adolescent	1.8%	0.0%	9.6%	0.9%	1.4%	0.4%	2.1%	0.0%	0.5%	43.0%	3.0%	8.9%	6.4%	21.9%	3.2%	10.6%	86.3%	100%
RECR	Project-Base	Lead	Adolescent	2.3%	0.0%	0.0%	0.0%	0.1%	0.5%	2.8%	0.3%	0.6%	0.0%	0.0%	2.0%	30.0%	61.3%	2.4%	0.0%	97.6%	100%
RECR	Project-Base	Manganese	Adolescent	0.3%	0.0%	46.3%	4.5%	0.2%	0.3%	1.0%	0.2%	0.2%	41.6%	0.7%	0.2%	3.9%	0.6%	0.6%	50.8%	48.6%	100%
RECR	Project-Base	Mercury	Adolescent	0.1%	0.0%	0.0%	0.0%	0.9%	0.2%	0.9%	0.3%	0.1%	0.0%	21.5%	9.6%	50.9%	15.4%	1.0%	0.0%	99.0%	100%
RECR	Project-Base	Molybdenum	Adolescent	0.0%	0.0%	22.7%	2.2%	0.0%	0.0%	0.1%	0.0%	0.0%	64.2%	0.7%	3.2%	2.8%	4.1%	0.1%	24.9%	75.0%	100%
RECR	Project-Base	Selenium	Adolescent	0.0%	0.0%	6.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	17.7%	0.9%	46.9%	2.8%	24.8%	0.0%	6.8%	93.1%	100%
RECR	Closure-Base	Arsenic	Adolescent	0.6%	0.0%	70.9%	6.9%	0.1%	0.1%	0.7%	0.0%	0.2%	15.1%	0.1%	4.2%	0.4%	0.8%	0.8%	77.8%	21.5%	100%
RECR	Closure-Base	Barium	Adolescent	1.4%	0.0%	53.9%	5.2%	1.1%	0.4%	1.9%	0.3%	0.4%	34.2%	0.0%	0.0%	0.0%	1.3%	2.4%	59.1%	38.5%	100%
RECR	Closure-Base	Beryllium	Adolescent	1.2%	0.0%	29.4%	2.8%	0.9%	0.3%	1.4%	0.0%	0.3%	40.1%	0.0%	0.0%	0.1%	23.4%	2.1%	32.2%	65.7%	100%
RECR	Closure-Base	Chromium	Adolescent	4.0%	0.0%	0.0%	0.0%	3.1%	0.9%	4.8%	0.3%	1.1%	0.0%	20.8%	3.7%	30.0%	31.3%	7.1%	0.0%	92.9%	100%
RECR	Closure-Base	Cobalt	Adolescent	0.1%	0.0%	51.5%	4.0%	0.1%	0.0%	0.2%	0.0%	0.0%	36.3%	0.1%	2.6%	1.2%	3.9%	0.3%	55.5%	44.2%	100%
RECR	Closure-Base	Iron	Adolescent	2.3%	0.0%	9.3%	0.9%	1.7%	0.5%	2.7%	0.0%	0.6%	41.6%	3.8%	5.9%	8.1%	22.6%	4.0%	10.2%	85.8%	100%
RECR	Closure-Base	Lead	Adolescent	2.3%	0.0%	0.0%	0.0%	0.1%	0.5%	2.8%	0.3%	0.6%	0.0%	0.0%	2.0%	30.0%	61.3%	2.4%	0.0%	97.6%	100%
RECR	Closure-Base	Manganese	Adolescent	0.5%	0.0%	45.2%	4.4%	0.3%	0.4%	1.4%	0.3%	0.3%	40.6%	0.9%	0.0%	5.4%	0.2%	0.8%	49.6%	49.6%	100%
RECR	Closure-Base	Mercury	Adolescent	0.1%	0.0%	0.0%	0.0%	0.9%	0.2%	0.9%	0.3%	0.1%	0.0%	21.5%	9.6%	50.9%	15.4%	1.0%	0.0%	99.0%	100%
RECR	Closure-Base	Molybdenum	Adolescent	0.0%	0.0%	22.7%	2.2%	0.0%	0.0%	0.1%	0.0%	0.0%	64.1%	1.0%	2.4%	4.1%	3.3%	0.1%	24.9%	75.1%	100%
RECR	Closure-Base	Selenium	Adolescent	0.0%	0.0%	4.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	13.0%	1.2%	49.9%	4.0%	26.8%	0.0%	5.0%	95.0%	100%
RECR	Post Closure-Base	Arsenic	Adolescent	5.9%	0.0%	0.0%	0.0%	1.4%	0.8%	6.7%	0.4%	1.6%	0.0%	1.1%	69.4%	3.5%	9.2%	7.3%	0.0%	92.7%	100%
RECR	Post Closure-Base	Barium	Adolescent	1.5%	0.0%	53.5%	5.2%	1.1%	0.4%	2.1%	0.3%	0.4%	34.0%	0.0%	0.0%	0.0%	1.5%	2.6%	58.7%	38.7%	100%
RECR	Post Closure-Base	Beryllium	Adolescent	4.4%	0.0%	0.0%	0.0%	3.3%	1.0%	5.2%	0.1%	1.1%	0.0%	0.1%	0.0%	0.4%	84.4%	7.7%	0.0%	92.3%	100%
RECR	Post Closure-Base	Chromium	Adolescent	4.4%	0.0%	0.0%	0.0%	3.4%	1.0%	5.3%	0.3%	1.2%	0.0%	22.9%	2.1%	33.0%	26.5%	7.8%	0.0%	92.2%	100%
RECR	Post Closure-Base	Cobalt	Adolescent	2.0%	0.0%	0.0%	0.0%	1.5%	0.5%	2.6%	0.2%	0.5%	0.0%	1.3%	26.5%	16.0%	48.8%	3.5%	0.0%	96.5%	100%
RECR	Post Closure-Base	Iron	Adolescent	2.6%	0.0%	7.3%	0.7%	2.0%	0.6%	3.1%	0.0%	0.7%	32.5%	4.4%	8.9%	9.3%	28.0%	4.6%	8.0%	87.4%	100%
RECR	Post Closure-Base	Lead	Adolescent	2.3%	0.0%	0.0%	0.0%	0.1%	0.5%	2.8%	0.3%	0.6%	0.0%	0.0%	2.0%	30.0%	61.3%	2.4%	0.0%	97.6%	100%
RECR	Post Closure-Base	Manganese	Adolescent	0.5%	0.0%	44.4%	4.3%	0.4%	0.4%	1.6%	0.4%	0.3%	39.9%	1.0%	0.2%	6.0%	0.7%	0.9%	48.7%	50.4%	100%
RECR	Post Closure-Base	Mercury	Adolescent	0.1%	0.0%	0.0%	0.0%	0.9%	0.2%	0.9%	0.3%	0.1%	0.0%	21.5%	9.6%	50.9%	15.4%	1.0%	0.0%	99.0%	100%
RECR	Post Closure-Base	Molybdenum	Adolescent	0.1%	0.0%	19.0%	1.8%	0.0%	0.0%	0.2%	0.1%	0.0%	53.8%	1.4%	7.7%	5.9%	9.9%	0.1%	20.9%	79.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RECR	Post Closure-Base	Selenium	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	64.7%	1.6%	33.3%	0.0%	0.0%	100.0%	100%
RECR	Project-Base	Arsenic	Adult	0.2%	0.0%	80.5%	4.9%	0.1%	0.0%	0.3%	0.0%	0.1%	11.4%	0.0%	2.0%	0.2%	0.3%	0.3%	85.4%	14.3%	100%
RECR	Project-Base	Barium	Adult	1.1%	0.0%	63.6%	3.9%	0.9%	0.3%	1.7%	0.2%	0.3%	26.9%	0.0%	0.0%	0.0%	1.1%	2.0%	67.5%	30.5%	100%
RECR	Project-Base	Beryllium	Adult	0.4%	0.0%	46.5%	2.8%	0.3%	0.1%	0.5%	0.0%	0.1%	42.3%	0.0%	0.0%	0.0%	7.0%	0.7%	49.4%	50.0%	100%
RECR	Project-Base	Chromium	Adult	3.6%	0.0%	0.6%	0.0%	3.1%	0.8%	4.9%	0.2%	1.1%	0.2%	19.6%	3.9%	31.4%	30.4%	6.8%	0.7%	92.6%	100%
RECR	Project-Base	Cobalt	Adult	0.1%	0.0%	62.8%	2.9%	0.1%	0.0%	0.1%	0.0%	0.0%	29.5%	0.0%	1.7%	0.7%	2.1%	0.1%	65.7%	34.1%	100%
RECR	Project-Base	Iron	Adult	1.7%	0.0%	13.5%	0.8%	1.4%	0.4%	2.3%	0.0%	0.5%	40.1%	2.9%	8.6%	7.0%	20.8%	3.1%	14.3%	82.6%	100%
RECR	Project-Base	Lead	Adult	2.1%	0.0%	0.0%	0.0%	0.1%	0.5%	3.1%	0.2%	0.6%	0.0%	0.0%	2.0%	32.8%	58.6%	2.2%	0.0%	97.8%	100%
RECR	Project-Base	Manganese	Adult	0.3%	0.0%	56.1%	3.4%	0.2%	0.2%	0.9%	0.2%	0.2%	33.6%	0.6%	0.2%	3.6%	0.5%	0.5%	59.6%	40.0%	100%
RECR	Project-Base	Mercury	Adult	0.1%	0.0%	0.0%	0.0%	0.9%	0.2%	1.0%	0.3%	0.1%	0.0%	20.4%	9.1%	53.7%	14.3%	1.0%	0.0%	99.0%	100%
RECR	Project-Base	Molybdenum	Adult	0.0%	0.0%	30.4%	1.9%	0.0%	0.0%	0.1%	0.0%	0.0%	57.4%	0.6%	2.9%	2.9%	3.7%	0.0%	32.3%	67.7%	100%
RECR	Project-Base	Selenium	Adult	0.0%	0.0%	8.8%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	0.8%	46.2%	3.1%	23.8%	0.0%	9.4%	90.6%	100%
RECR	Closure-Base	Arsenic	Adult	0.5%	0.0%	78.5%	4.8%	0.1%	0.1%	0.6%	0.0%	0.1%	11.2%	0.1%	3.2%	0.3%	0.6%	0.6%	83.3%	16.1%	100%
RECR	Closure-Base	Barium	Adult	1.1%	0.0%	63.6%	3.9%	0.9%	0.3%	1.8%	0.2%	0.3%	26.9%	0.0%	0.0%	0.0%	1.0%	2.0%	67.5%	30.5%	100%
RECR	Closure-Base	Beryllium	Adult	1.0%	0.0%	38.2%	2.3%	0.9%	0.2%	1.4%	0.0%	0.3%	34.8%	0.0%	0.0%	0.1%	20.6%	1.9%	40.6%	57.5%	100%
RECR	Closure-Base	Chromium	Adult	3.8%	0.0%	0.0%	0.0%	3.2%	0.8%	5.1%	0.2%	1.1%	0.0%	20.2%	3.6%	32.4%	29.5%	7.0%	0.0%	93.0%	100%
RECR	Closure-Base	Cobalt	Adult	0.1%	0.0%	61.4%	2.9%	0.1%	0.0%	0.2%	0.0%	0.0%	28.9%	0.1%	2.1%	1.1%	3.1%	0.2%	64.3%	35.5%	100%
RECR	Closure-Base	Iron	Adult	2.1%	0.0%	13.0%	0.8%	1.8%	0.5%	2.9%	0.0%	0.6%	38.8%	3.7%	5.7%	8.8%	21.3%	3.9%	13.8%	82.2%	100%
RECR	Closure-Base	Lead	Adult	2.1%	0.0%	0.0%	0.0%	0.1%	0.5%	3.1%	0.2%	0.6%	0.0%	0.0%	2.0%	32.8%	58.6%	2.2%	0.0%	97.8%	100%
RECR	Closure-Base	Manganese	Adult	0.4%	0.0%	55.0%	3.3%	0.3%	0.3%	1.3%	0.2%	0.2%	32.9%	0.8%	0.0%	5.1%	0.1%	0.7%	58.3%	41.0%	100%
RECR	Closure-Base	Mercury	Adult	0.1%	0.0%	0.0%	0.0%	0.9%	0.2%	1.0%	0.3%	0.1%	0.0%	20.4%	9.1%	53.7%	14.3%	1.0%	0.0%	99.0%	100%
RECR	Closure-Base	Molybdenum	Adult	0.0%	0.0%	30.3%	1.8%	0.0%	0.0%	0.1%	0.0%	0.0%	57.2%	0.9%	2.2%	4.2%	3.0%	0.1%	32.2%	67.7%	100%
RECR	Closure-Base	Selenium	Adult	0.0%	0.0%	6.5%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	12.4%	1.2%	49.3%	4.4%	25.8%	0.0%	6.9%	93.1%	100%
RECR	Post Closure-Base	Arsenic	Adult	5.7%	0.0%	0.0%	0.0%	1.5%	0.7%	7.3%	0.3%	1.7%	0.0%	1.1%	69.0%	3.9%	8.9%	7.1%	0.0%	92.9%	100%
RECR	Post Closure-Base	Barium	Adult	1.2%	0.0%	63.2%	3.8%	1.0%	0.3%	1.9%	0.2%	0.4%	26.8%	0.0%	0.0%	0.0%	1.2%	2.2%	67.1%	30.7%	100%
RECR	Post Closure-Base	Beryllium	Adult	4.3%	0.0%	0.0%	0.0%	3.7%	0.9%	5.7%	0.1%	1.3%	0.0%	0.1%	0.0%	0.5%	83.5%	8.0%	0.0%	92.0%	100%
RECR	Post Closure-Base	Chromium	Adult	4.1%	0.0%	0.0%	0.0%	3.5%	0.9%	5.6%	0.2%	1.2%	0.0%	22.1%	2.1%	35.5%	24.9%	7.6%	0.0%	92.4%	100%
RECR	Post Closure-Base	Cobalt	Adult	1.9%	0.0%	0.0%	0.0%	1.6%	0.4%	2.9%	0.2%	0.6%	0.0%	1.3%	26.3%	17.7%	47.1%	3.5%	0.0%	96.5%	100%
RECR	Post Closure-Base	Iron	Adult	2.4%	0.0%	10.2%	0.6%	2.1%	0.5%	3.3%	0.0%	0.7%	30.4%	4.3%	8.7%	10.1%	26.6%	4.5%	10.8%	84.6%	100%
RECR	Post Closure-Base	Lead	Adult	2.1%	0.0%	0.0%	0.0%	0.1%	0.5%	3.1%	0.2%	0.6%	0.0%	0.0%	2.0%	32.8%	58.6%	2.2%	0.0%	97.8%	100%
RECR	Post Closure-Base	Manganese	Adult	0.4%	0.0%	54.1%	3.3%	0.3%	0.3%	1.4%	0.2%	0.3%	32.4%	0.9%	0.2%	5.6%	0.5%	0.8%	57.4%	41.9%	100%
RECR	Post Closure-Base	Mercury	Adult	0.1%	0.0%	0.0%	0.0%	0.9%	0.2%	1.0%	0.3%	0.1%	0.0%	20.4%	9.1%	53.7%	14.3%	1.0%	0.0%	99.0%	100%
RECR	Post Closure-Base	Molybdenum	Adult	0.1%	0.0%	25.8%	1.6%	0.0%	0.0%	0.2%	0.0%	0.0%	48.5%	1.3%	7.2%	6.1%	9.0%	0.1%	27.3%	72.6%	100%
RECR	Post Closure-Base	Selenium	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	65.1%	1.8%	32.6%	0.0%	0.0%	100.0%	100%
URBN	Project-Base	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Barium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Iron	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Manganese	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Molybdenum	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Barium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Iron	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Manganese	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Molybdenum	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Post Closure-Base	Arsenic	Infant	93.1%	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Barium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Beryllium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Chromium	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Cobalt	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Iron	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Lead	Infant	98.5%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Manganese	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Mercury	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Molybdenum	Infant	80.3%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	Selenium	Infant	97.6%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	Arsenic	Toddler	84.0%	0.0%	0.0%	0.0%	2.2%	0.0%	13.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.2%	0.0%	13.8%	100%
URBN	Project-Base	Barium	Toddler	76.5%	0.0%	0.0%	0.0%	6.6%	0.0%	15.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	83.1%	0.0%	16.9%	100%
URBN	Project-Base	Beryllium	Toddler	79.8%	0.0%	0.0%	0.0%	6.9%	0.0%	13.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.7%	0.0%	13.3%	100%
URBN	Project-Base	Chromium	Toddler	79.4%	0.0%	0.0%	0.0%	6.8%	0.0%	13.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.2%	0.0%	13.8%	100%
URBN	Project-Base	Cobalt	Toddler	78.1%	0.0%	0.0%	0.0%	6.7%	0.0%	14.3%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.8%	0.0%	15.2%	100%
URBN	Project-Base	Iron	Toddler	79.8%	0.0%	0.0%	0.0%	6.9%	0.0%	13.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.7%	0.0%	13.3%	100%
URBN	Project-Base	Lead	Toddler	83.6%	0.0%	0.0%	0.0%	0.4%	0.0%	14.7%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.0%	0.0%	16.0%	100%
URBN	Project-Base	Manganese	Toddler	62.3%	0.0%	0.0%	0.0%	5.4%	0.0%	27.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	67.7%	0.0%	32.3%	100%
URBN	Project-Base	Mercury	Toddler	29.9%	0.0%	0.0%	0.0%	25.7%	0.0%	34.1%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.7%	0.0%	44.3%	100%
URBN	Project-Base	Molybdenum	Toddler	61.7%	0.0%	0.0%	0.0%	5.3%	0.0%	26.7%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	67.0%	0.0%	33.0%	100%
URBN	Project-Base	Selenium	Toddler	81.4%	0.0%	0.0%	0.0%	0.7%	0.0%	14.8%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.1%	0.0%	17.9%	100%
URBN	Closure-Base	Arsenic	Toddler	84.0%	0.0%	0.0%	0.0%	2.2%	0.0%	13.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.2%	0.0%	13.8%	100%
URBN	Closure-Base	Barium	Toddler	76.5%	0.0%	0.0%	0.0%	6.6%	0.0%	15.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	83.1%	0.0%	16.9%	100%
URBN	Closure-Base	Beryllium	Toddler	79.8%	0.0%	0.0%	0.0%	6.9%	0.0%	13.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.7%	0.0%	13.3%	100%
URBN	Closure-Base	Chromium	Toddler	79.4%	0.0%	0.0%	0.0%	6.8%	0.0%	13.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.2%	0.0%	13.8%	100%
URBN	Closure-Base	Cobalt	Toddler	78.1%	0.0%	0.0%	0.0%	6.7%	0.0%	14.3%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.8%	0.0%	15.2%	100%
URBN	Closure-Base	Iron	Toddler	79.8%	0.0%	0.0%	0.0%	6.9%	0.0%	13.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.7%	0.0%	13.3%	100%
URBN	Closure-Base	Lead	Toddler	83.6%	0.0%	0.0%	0.0%	0.4%	0.0%	14.7%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.0%	0.0%	16.0%	100%
URBN	Closure-Base	Manganese	Toddler	62.3%	0.0%	0.0%	0.0%	5.4%	0.0%	27.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	67.7%	0.0%	32.3%	100%
URBN	Closure-Base	Mercury	Toddler	29.9%	0.0%	0.0%	0.0%	25.7%	0.0%	34.1%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.7%	0.0%	44.3%	100%
URBN	Closure-Base	Molybdenum	Toddler	61.7%	0.0%	0.0%	0.0%	5.3%	0.0%	26.7%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	67.0%	0.0%	33.0%	100%
URBN	Closure-Base	Selenium	Toddler	81.4%	0.0%	0.0%	0.0%	0.7%	0.0%	14.8%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.1%	0.0%	17.9%	100%
URBN	Post Closure-Base	Arsenic	Toddler	84.0%	0.0%	0.0%	0.0%	2.2%	0.0%	13.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.2%	0.0%	13.8%	100%
URBN	Post Closure-Base	Barium	Toddler	76.5%	0.0%	0.0%	0.0%	6.6%	0.0%	15.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	83.1%	0.0%	16.9%	100%
URBN	Post Closure-Base	Beryllium	Toddler	79.8%	0.0%	0.0%	0.0%	6.9%	0.0%	13.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.7%	0.0%	13.3%	100%
URBN	Post Closure-Base	Chromium	Toddler	79.4%	0.0%	0.0%	0.0%	6.8%	0.0%	13.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.2%	0.0%	13.8%	100%
URBN	Post Closure-Base	Cobalt	Toddler	78.1%	0.0%	0.0%	0.0%	6.7%	0.0%	14.3%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.8%	0.0%	15.2%	100%
URBN	Post Closure-Base	Iron	Toddler	79.8%	0.0%	0.0%	0.0%	6.9%	0.0%	13.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	86.7%	0.0%	13.3%	100%
URBN	Post Closure-Base	Lead	Toddler	83.6%	0.0%	0.0%	0.0%	0.4%	0.0%	14.7%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.0%	0.0%	16.0%	100%
URBN	Post Closure-Base	Manganese	Toddler	62.3%	0.0%	0.0%	0.0%	5.4%	0.0%	27.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	67.7%	0.0%	32.3%	100%
URBN	Post Closure-Base	Mercury	Toddler	29.9%	0.0%	0.0%	0.0%	25.7%	0.0%	34.1%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.7%	0.0%	44.3%	100%
URBN	Post Closure-Base	Molybdenum	Toddler	61.7%	0.0%	0.0%	0.0%	5.3%	0.0%	26.7%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	67.0%	0.0%	33.0%	100%
URBN	Post Closure-Base	Selenium	Toddler	81.4%	0.0%	0.0%	0.0%	0.7%	0.0%	14.8%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.1%	0.0%	17.9%	100%
URBN	Project-Base	Arsenic	Child	47.1%	0.0%	0.0%	0.0%	7.4%	0.0%	43.4%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.5%	0.0%	45.5%	100%
URBN	Project-Base	Barium	Child	35.4%	0.0%	0.0%	0.0%	18.5%	0.0%	40.6%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.9%	0.0%	46.1%	100%
URBN	Project-Base	Beryllium	Child	40.0%	0.0%	0.0%	0.0%	20.9%	0.0%	38.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	61.0%	0.0%	39.0%	100%
URBN	Project-Base	Chromium	Child	39.3%	0.0%	0.0%	0.0%	20.5%	0.0%	38.3%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.9%	0.0%	40.1%	100%
URBN	Project-Base	Cobalt	Child	37.5%	0.0%	0.0%	0.0%	19.6%	0.0%	40.1%	2.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.1%	0.0%	42.9%	100%
URBN	Project-Base	Iron	Child	40.0%	0.0%	0.0%	0.0%	20.9%	0.0%	38.7%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60.9%	0.0%	39.1%	100%
URBN	Project-Base	Lead	Child	46.4%	0.0%	0.0%	0.0%	1.5%	0.0%	47.7%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.9%	0.0%	52.1%	100%
URBN	Project-Base	Manganese	Child	21.8%	0.0%	0.0%	0.0%	11.4%	0.0%	55.3%	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	66.7%	100%
URBN	Project-Base	Mercury	Child	6.7%	0.0%	0.0%	0.0%	34.8%	0.0%	44.5%	14.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.5%	0.0%	58.5%	100%
URBN	Project-Base	Molybdenum	Child	21.3%	0.0%	0.0%	0.0%	11.2%	0.0%	54.1%	13.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.5%	0.0%	67.5%	100%
URBN	Project-Base	Selenium	Child	42.6%	0.0%	0.0%	0.0%	2.2%	0.0%	45.4%	9.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.8%	0.0%	55.2%	100%
URBN	Closure-Base	Arsenic	Child	47.1%	0.0%	0.0%	0.0%	7.4%	0.0%	43.4%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.5%	0.0%	45.5%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Closure-Base	Barium	Child	35.4%	0.0%	0.0%	0.0%	18.5%	0.0%	40.6%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.9%	0.0%	46.1%	100%
URBN	Closure-Base	Beryllium	Child	40.0%	0.0%	0.0%	0.0%	20.9%	0.0%	38.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	61.0%	0.0%	39.0%	100%
URBN	Closure-Base	Chromium	Child	39.3%	0.0%	0.0%	0.0%	20.5%	0.0%	38.3%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.9%	0.0%	40.1%	100%
URBN	Closure-Base	Cobalt	Child	37.5%	0.0%	0.0%	0.0%	19.6%	0.0%	40.1%	2.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.1%	0.0%	42.9%	100%
URBN	Closure-Base	Iron	Child	40.0%	0.0%	0.0%	0.0%	20.9%	0.0%	38.7%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60.9%	0.0%	39.1%	100%
URBN	Closure-Base	Lead	Child	46.4%	0.0%	0.0%	0.0%	1.5%	0.0%	47.7%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.9%	0.0%	52.1%	100%
URBN	Closure-Base	Manganese	Child	21.8%	0.0%	0.0%	0.0%	11.4%	0.0%	55.3%	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	66.7%	100%
URBN	Closure-Base	Mercury	Child	6.7%	0.0%	0.0%	0.0%	34.8%	0.0%	44.5%	14.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.5%	0.0%	58.5%	100%
URBN	Closure-Base	Molybdenum	Child	21.3%	0.0%	0.0%	0.0%	11.2%	0.0%	54.1%	13.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.5%	0.0%	67.5%	100%
URBN	Closure-Base	Selenium	Child	42.6%	0.0%	0.0%	0.0%	2.2%	0.0%	45.4%	9.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.8%	0.0%	55.2%	100%
URBN	Post Closure-Base	Arsenic	Child	47.1%	0.0%	0.0%	0.0%	7.4%	0.0%	43.4%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.5%	0.0%	45.5%	100%
URBN	Post Closure-Base	Barium	Child	35.4%	0.0%	0.0%	0.0%	18.5%	0.0%	40.6%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.9%	0.0%	46.1%	100%
URBN	Post Closure-Base	Beryllium	Child	40.0%	0.0%	0.0%	0.0%	20.9%	0.0%	38.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	61.0%	0.0%	39.0%	100%
URBN	Post Closure-Base	Chromium	Child	39.3%	0.0%	0.0%	0.0%	20.5%	0.0%	38.3%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.9%	0.0%	40.1%	100%
URBN	Post Closure-Base	Cobalt	Child	37.5%	0.0%	0.0%	0.0%	19.6%	0.0%	40.1%	2.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.1%	0.0%	42.9%	100%
URBN	Post Closure-Base	Iron	Child	40.0%	0.0%	0.0%	0.0%	20.9%	0.0%	38.7%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60.9%	0.0%	39.1%	100%
URBN	Post Closure-Base	Lead	Child	46.4%	0.0%	0.0%	0.0%	1.5%	0.0%	47.7%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.9%	0.0%	52.1%	100%
URBN	Post Closure-Base	Manganese	Child	21.8%	0.0%	0.0%	0.0%	11.4%	0.0%	55.3%	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	66.7%	100%
URBN	Post Closure-Base	Mercury	Child	6.7%	0.0%	0.0%	0.0%	34.8%	0.0%	44.5%	14.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.5%	0.0%	58.5%	100%
URBN	Post Closure-Base	Molybdenum	Child	21.3%	0.0%	0.0%	0.0%	11.2%	0.0%	54.1%	13.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.5%	0.0%	67.5%	100%
URBN	Post Closure-Base	Selenium	Child	42.6%	0.0%	0.0%	0.0%	2.2%	0.0%	45.4%	9.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.8%	0.0%	55.2%	100%
URBN	Project-Base	Arsenic	Adolescent	41.3%	0.0%	0.0%	0.0%	9.4%	0.0%	46.7%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.8%	0.0%	49.2%	100%
URBN	Project-Base	Barium	Adolescent	29.5%	0.0%	0.0%	0.0%	22.4%	0.0%	41.5%	6.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	52.0%	0.0%	48.0%	100%
URBN	Project-Base	Beryllium	Adolescent	33.8%	0.0%	0.0%	0.0%	25.7%	0.0%	39.7%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.6%	0.0%	40.4%	100%
URBN	Project-Base	Chromium	Adolescent	33.1%	0.0%	0.0%	0.0%	25.2%	0.0%	39.5%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	58.3%	0.0%	41.7%	100%
URBN	Project-Base	Cobalt	Adolescent	31.5%	0.0%	0.0%	0.0%	24.0%	0.0%	41.3%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.5%	0.0%	44.5%	100%
URBN	Project-Base	Iron	Adolescent	33.8%	0.0%	0.0%	0.0%	25.7%	0.0%	40.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.5%	0.0%	40.5%	100%
URBN	Project-Base	Lead	Adolescent	41.0%	0.0%	0.0%	0.0%	1.9%	0.0%	51.6%	5.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	42.9%	0.0%	57.1%	100%
URBN	Project-Base	Manganese	Adolescent	17.9%	0.0%	0.0%	0.0%	13.6%	0.0%	55.4%	13.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.4%	0.0%	68.6%	100%
URBN	Project-Base	Mercury	Adolescent	5.1%	0.0%	0.0%	0.0%	38.5%	0.0%	41.4%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.6%	0.0%	56.4%	100%
URBN	Project-Base	Molybdenum	Adolescent	17.4%	0.0%	0.0%	0.0%	13.2%	0.0%	54.0%	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.6%	0.0%	69.4%	100%
URBN	Project-Base	Selenium	Adolescent	36.9%	0.0%	0.0%	0.0%	2.8%	0.0%	48.2%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.8%	0.0%	60.2%	100%
URBN	Closure-Base	Arsenic	Adolescent	41.3%	0.0%	0.0%	0.0%	9.4%	0.0%	46.7%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.8%	0.0%	49.2%	100%
URBN	Closure-Base	Barium	Adolescent	29.5%	0.0%	0.0%	0.0%	22.4%	0.0%	41.5%	6.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	52.0%	0.0%	48.0%	100%
URBN	Closure-Base	Beryllium	Adolescent	33.8%	0.0%	0.0%	0.0%	25.7%	0.0%	39.7%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.6%	0.0%	40.4%	100%
URBN	Closure-Base	Chromium	Adolescent	33.1%	0.0%	0.0%	0.0%	25.2%	0.0%	39.5%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	58.3%	0.0%	41.7%	100%
URBN	Closure-Base	Cobalt	Adolescent	31.5%	0.0%	0.0%	0.0%	24.0%	0.0%	41.3%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.5%	0.0%	44.5%	100%
URBN	Closure-Base	Iron	Adolescent	33.8%	0.0%	0.0%	0.0%	25.7%	0.0%	40.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.5%	0.0%	40.5%	100%
URBN	Closure-Base	Lead	Adolescent	41.0%	0.0%	0.0%	0.0%	1.9%	0.0%	51.6%	5.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	42.9%	0.0%	57.1%	100%
URBN	Closure-Base	Manganese	Adolescent	17.9%	0.0%	0.0%	0.0%	13.6%	0.0%	55.4%	13.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.4%	0.0%	68.6%	100%
URBN	Closure-Base	Mercury	Adolescent	5.1%	0.0%	0.0%	0.0%	38.5%	0.0%	41.4%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.6%	0.0%	56.4%	100%
URBN	Closure-Base	Molybdenum	Adolescent	17.4%	0.0%	0.0%	0.0%	13.2%	0.0%	54.0%	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.6%	0.0%	69.4%	100%
URBN	Closure-Base	Selenium	Adolescent	36.9%	0.0%	0.0%	0.0%	2.8%	0.0%	48.2%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.8%	0.0%	60.2%	100%
URBN	Post Closure-Base	Arsenic	Adolescent	41.3%	0.0%	0.0%	0.0%	9.4%	0.0%	46.7%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.8%	0.0%	49.2%	100%
URBN	Post Closure-Base	Barium	Adolescent	29.5%	0.0%	0.0%	0.0%	22.4%	0.0%	41.5%	6.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	52.0%	0.0%	48.0%	100%
URBN	Post Closure-Base	Beryllium	Adolescent	33.8%	0.0%	0.0%	0.0%	25.7%	0.0%	39.7%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.6%	0.0%	40.4%	100%
URBN	Post Closure-Base	Chromium	Adolescent	33.1%	0.0%	0.0%	0.0%	25.2%	0.0%	39.5%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	58.3%	0.0%	41.7%	100%
URBN	Post Closure-Base	Cobalt	Adolescent	31.5%	0.0%	0.0%	0.0%	24.0%	0.0%	41.3%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.5%	0.0%	44.5%	100%
URBN	Post Closure-Base	Iron	Adolescent	33.8%	0.0%	0.0%	0.0%	25.7%	0.0%	40.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.5%	0.0%	40.5%	100%
URBN	Post Closure-Base	Lead	Adolescent	41.0%	0.0%	0.0%	0.0%	1.9%	0.0%	51.6%	5.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	42.9%	0.0%	57.1%	100%
URBN	Post Closure-Base	Manganese	Adolescent	17.9%	0.0%	0.0%	0.0%	13.6%	0.0%	55.4%	13.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.4%	0.0%	68.6%	100%
URBN	Post Closure-Base	Mercury	Adolescent	5.1%	0.0%	0.0%	0.0%	38.5%	0.0%	41.4%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.6%	0.0%	56.4%	100%
URBN	Post Closure-Base	Molybdenum	Adolescent	17.4%	0.0%	0.0%	0.0%	13.2%	0.0%	54.0%	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.6%	0.0%	69.4%	100%
URBN	Post Closure-Base	Selenium	Adolescent	36.9%	0.0%	0.0%	0.0%	2.8%	0.0%	48.2%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.8%	0.0%	60.2%	100%
URBN	Project-Base	Arsenic	Adult	38.5%	0.0%	0.0%	0.0%	9.9%	0.0%	49.6%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	48.4%	0.0%	51.6%	100%
URBN	Project-Base	Barium	Adult	27.4%	0.0%	0.0%	0.0%	23.5%	0.0%	44.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	51.0%	0.0%	49.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Project-Base	Beryllium	Adult	31.1%	0.0%	0.0%	0.0%	26.6%	0.0%	41.7%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.8%	0.0%	42.2%	100%
URBN	Project-Base	Chromium	Adult	30.6%	0.0%	0.0%	0.0%	26.2%	0.0%	41.6%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	56.8%	0.0%	43.2%	100%
URBN	Project-Base	Cobalt	Adult	29.1%	0.0%	0.0%	0.0%	24.9%	0.0%	43.5%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.0%	0.0%	46.0%	100%
URBN	Project-Base	Iron	Adult	31.0%	0.0%	0.0%	0.0%	26.6%	0.0%	42.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.6%	0.0%	42.4%	100%
URBN	Project-Base	Lead	Adult	38.5%	0.0%	0.0%	0.0%	2.0%	0.0%	55.3%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.5%	0.0%	59.5%	100%
URBN	Project-Base	Manganese	Adult	16.6%	0.0%	0.0%	0.0%	14.2%	0.0%	58.9%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.9%	0.0%	69.1%	100%
URBN	Project-Base	Mercury	Adult	4.7%	0.0%	0.0%	0.0%	40.1%	0.0%	43.7%	11.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.8%	0.0%	55.2%	100%
URBN	Project-Base	Molybdenum	Adult	16.3%	0.0%	0.0%	0.0%	14.0%	0.0%	57.8%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.3%	0.0%	69.7%	100%
URBN	Project-Base	Selenium	Adult	35.1%	0.0%	0.0%	0.0%	3.0%	0.0%	52.4%	9.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	38.2%	0.0%	61.8%	100%
URBN	Closure-Base	Arsenic	Adult	38.5%	0.0%	0.0%	0.0%	9.9%	0.0%	49.6%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	48.4%	0.0%	51.6%	100%
URBN	Closure-Base	Barium	Adult	27.4%	0.0%	0.0%	0.0%	23.5%	0.0%	44.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	51.0%	0.0%	49.0%	100%
URBN	Closure-Base	Beryllium	Adult	31.1%	0.0%	0.0%	0.0%	26.6%	0.0%	41.7%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.8%	0.0%	42.2%	100%
URBN	Closure-Base	Chromium	Adult	30.6%	0.0%	0.0%	0.0%	26.2%	0.0%	41.6%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	56.8%	0.0%	43.2%	100%
URBN	Closure-Base	Cobalt	Adult	29.1%	0.0%	0.0%	0.0%	24.9%	0.0%	43.5%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.0%	0.0%	46.0%	100%
URBN	Closure-Base	Iron	Adult	31.0%	0.0%	0.0%	0.0%	26.6%	0.0%	42.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.6%	0.0%	42.4%	100%
URBN	Closure-Base	Lead	Adult	38.5%	0.0%	0.0%	0.0%	2.0%	0.0%	55.3%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.5%	0.0%	59.5%	100%
URBN	Closure-Base	Manganese	Adult	16.6%	0.0%	0.0%	0.0%	14.2%	0.0%	58.9%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.9%	0.0%	69.1%	100%
URBN	Closure-Base	Mercury	Adult	4.7%	0.0%	0.0%	0.0%	40.1%	0.0%	43.7%	11.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.8%	0.0%	55.2%	100%
URBN	Closure-Base	Molybdenum	Adult	16.3%	0.0%	0.0%	0.0%	14.0%	0.0%	57.8%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.3%	0.0%	69.7%	100%
URBN	Closure-Base	Selenium	Adult	35.1%	0.0%	0.0%	0.0%	3.0%	0.0%	52.4%	9.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	38.2%	0.0%	61.8%	100%
URBN	Post Closure-Base	Arsenic	Adult	38.5%	0.0%	0.0%	0.0%	9.9%	0.0%	49.6%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	48.4%	0.0%	51.6%	100%
URBN	Post Closure-Base	Barium	Adult	27.4%	0.0%	0.0%	0.0%	23.5%	0.0%	44.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	51.0%	0.0%	49.0%	100%
URBN	Post Closure-Base	Beryllium	Adult	31.1%	0.0%	0.0%	0.0%	26.6%	0.0%	41.7%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.8%	0.0%	42.2%	100%
URBN	Post Closure-Base	Chromium	Adult	30.6%	0.0%	0.0%	0.0%	26.2%	0.0%	41.6%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	56.8%	0.0%	43.2%	100%
URBN	Post Closure-Base	Cobalt	Adult	29.1%	0.0%	0.0%	0.0%	24.9%	0.0%	43.5%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.0%	0.0%	46.0%	100%
URBN	Post Closure-Base	Iron	Adult	31.0%	0.0%	0.0%	0.0%	26.6%	0.0%	42.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.6%	0.0%	42.4%	100%
URBN	Post Closure-Base	Lead	Adult	38.5%	0.0%	0.0%	0.0%	2.0%	0.0%	55.3%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.5%	0.0%	59.5%	100%
URBN	Post Closure-Base	Manganese	Adult	16.6%	0.0%	0.0%	0.0%	14.2%	0.0%	58.9%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.9%	0.0%	69.1%	100%
URBN	Post Closure-Base	Mercury	Adult	4.7%	0.0%	0.0%	0.0%	40.1%	0.0%	43.7%	11.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.8%	0.0%	55.2%	100%
URBN	Post Closure-Base	Molybdenum	Adult	16.3%	0.0%	0.0%	0.0%	14.0%	0.0%	57.8%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.3%	0.0%	69.7%	100%
URBN	Post Closure-Base	Selenium	Adult	35.1%	0.0%	0.0%	0.0%	3.0%	0.0%	52.4%	9.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	38.2%	0.0%	61.8%	100%
COMM	Project-Base	Arsenic	Infant	90.8%	2.5%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Barium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Beryllium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Chromium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Cobalt	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Iron	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Lead	Infant	95.9%	2.6%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Manganese	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Mercury	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Molybdenum	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Selenium	Infant	95.1%	2.6%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Arsenic	Infant	90.8%	2.5%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Barium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Beryllium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Chromium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Cobalt	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Iron	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Lead	Infant	95.9%	2.6%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Manganese	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Mercury	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Molybdenum	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Selenium	Infant	95.1%	2.6%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Arsenic	Infant	90.8%	2.5%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Barium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Beryllium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Post Closure-Base	Chromium	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Cobalt	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Iron	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Lead	Infant	95.9%	2.6%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Manganese	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Mercury	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Molybdenum	Infant	78.6%	2.2%	0.0%	0.0%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Selenium	Infant	95.1%	2.6%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Arsenic	Toddler	95.1%	2.5%	0.0%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Barium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Beryllium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Chromium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Cobalt	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Iron	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Lead	Toddler	97.0%	2.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Manganese	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Mercury	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Molybdenum	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Selenium	Toddler	96.7%	2.5%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Arsenic	Toddler	95.1%	2.5%	0.0%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Barium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Beryllium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Chromium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Cobalt	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Iron	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Lead	Toddler	97.0%	2.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Manganese	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Mercury	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Molybdenum	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Selenium	Toddler	96.7%	2.5%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Arsenic	Toddler	95.1%	2.5%	0.0%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Barium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Beryllium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Chromium	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Cobalt	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Iron	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Lead	Toddler	97.0%	2.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Manganese	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Mercury	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Molybdenum	Toddler	89.9%	2.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Selenium	Toddler	96.7%	2.5%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Arsenic	Child	74.7%	13.5%	0.0%	0.0%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Barium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Beryllium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Chromium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Cobalt	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Iron	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Lead	Child	82.5%	14.9%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Manganese	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Mercury	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Molybdenum	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Selenium	Child	81.1%	14.7%	0.0%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Arsenic	Child	74.7%	13.5%	0.0%	0.0%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Barium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Beryllium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Chromium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Closure-Base	Cobalt	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Iron	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Lead	Child	82.5%	14.9%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Manganese	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Mercury	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Molybdenum	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Selenium	Child	81.1%	14.7%	0.0%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Arsenic	Child	74.7%	13.5%	0.0%	0.0%	11.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Barium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Beryllium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Chromium	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Cobalt	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Iron	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Lead	Child	82.5%	14.9%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Manganese	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Mercury	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Molybdenum	Child	58.7%	10.6%	0.0%	0.0%	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Selenium	Child	81.1%	14.7%	0.0%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Arsenic	Adolescent	70.3%	13.7%	0.0%	0.0%	16.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Barium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Beryllium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Chromium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Cobalt	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Iron	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Lead	Adolescent	80.6%	15.7%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Manganese	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Mercury	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Molybdenum	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Selenium	Adolescent	78.7%	15.3%	0.0%	0.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Arsenic	Adolescent	70.3%	13.7%	0.0%	0.0%	16.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Barium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Beryllium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Chromium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Cobalt	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Iron	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Lead	Adolescent	80.6%	15.7%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Manganese	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Mercury	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Molybdenum	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Selenium	Adolescent	78.7%	15.3%	0.0%	0.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Arsenic	Adolescent	70.3%	13.7%	0.0%	0.0%	16.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Barium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Beryllium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Chromium	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Cobalt	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Iron	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Lead	Adolescent	80.6%	15.7%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Manganese	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Mercury	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Molybdenum	Adolescent	51.2%	10.0%	0.0%	0.0%	38.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Selenium	Adolescent	78.7%	15.3%	0.0%	0.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Arsenic	Adult	68.3%	14.2%	0.0%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Barium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Beryllium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Chromium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Cobalt	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Project-Base	Iron	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Lead	Adult	79.4%	16.5%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Manganese	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Mercury	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Molybdenum	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	Selenium	Adult	77.3%	16.0%	0.0%	0.0%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Arsenic	Adult	68.3%	14.2%	0.0%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Barium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Beryllium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Chromium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Cobalt	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Iron	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Lead	Adult	79.4%	16.5%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Manganese	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Mercury	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Molybdenum	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	Selenium	Adult	77.3%	16.0%	0.0%	0.0%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Arsenic	Adult	68.3%	14.2%	0.0%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Barium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Beryllium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Chromium	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Cobalt	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Iron	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Lead	Adult	79.4%	16.5%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Manganese	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Mercury	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Molybdenum	Adult	48.5%	10.1%	0.0%	0.0%	41.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	Selenium	Adult	77.3%	16.0%	0.0%	0.0%	6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
Inorganic Mercury																					
RESI	Base	MercuryIng	Infant	7.4%	0.0%	74.3%	0.0%	18.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.7%	74.3%	0.0%	100%
RESI	Project	MercuryIng	Infant	7.8%	0.0%	73.0%	0.0%	19.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.0%	73.0%	0.0%	100%
RESI	Closure	MercuryIng	Infant	7.8%	0.0%	73.1%	0.0%	19.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	26.9%	73.1%	0.0%	100%
RESI	Post Closure	MercuryIng	Infant	8.0%	0.0%	72.3%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.7%	72.3%	0.0%	100%
RECR	Base	MercuryIng	Infant	7.4%	0.0%	74.3%	0.0%	18.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.7%	74.3%	0.0%	100%
RECR	Project	MercuryIng	Infant	7.8%	0.0%	73.0%	0.0%	19.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.0%	73.0%	0.0%	100%
RECR	Closure	MercuryIng	Infant	7.8%	0.0%	73.1%	0.0%	19.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	26.9%	73.1%	0.0%	100%
RECR	Post Closure	MercuryIng	Infant	8.0%	0.0%	72.3%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.7%	72.3%	0.0%	100%
URBN	Base	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	MercuryIng	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	MercuryIng	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	MercuryIng	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	MercuryIng	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	MercuryIng	Toddler	0.2%	0.0%	0.8%	0.1%	0.1%	1.5%	8.2%	2.8%	0.8%	72.7%	0.1%	10.5%	0.7%	1.3%	0.3%	1.0%	98.7%	100%
RESI	Project	MercuryIng	Toddler	0.2%	0.0%	0.8%	0.1%	0.2%	1.5%	8.5%	3.0%	0.9%	71.7%	0.1%	10.9%	0.7%	1.3%	0.3%	1.0%	98.7%	100%
RESI	Closure	MercuryIng	Toddler	0.2%	0.0%	0.8%	0.1%	0.2%	1.5%	8.5%	3.0%	0.9%	71.7%	0.1%	10.9%	0.7%	1.3%	0.3%	1.0%	98.7%	100%
RESI	Post Closure	MercuryIng	Toddler	0.2%	0.0%	0.8%	0.1%	0.2%	1.6%	8.8%	3.1%	0.9%	71.0%	0.2%	11.1%	0.7%	1.4%	0.3%	1.0%	98.7%	100%
RECR	Base	MercuryIng	Toddler	0.4%	0.0%	2.0%	0.3%	0.3%	0.7%	3.8%	1.3%	0.4%	84.7%	0.1%	5.0%	0.3%	0.6%	0.7%	2.3%	97.0%	100%
RECR	Project	MercuryIng	Toddler	0.4%	0.0%	2.0%	0.3%	0.4%	0.7%	4.0%	1.4%	0.4%	84.1%	0.1%	5.2%	0.3%	0.6%	0.8%	2.3%	96.9%	100%
RECR	Closure	MercuryIng	Toddler	0.4%	0.0%	2.0%	0.3%	0.4%	0.7%	4.0%	1.4%	0.4%	84.1%	0.1%	5.2%	0.3%	0.6%	0.8%	2.3%	96.9%	100%
RECR	Post Closure	MercuryIng	Toddler	0.4%	0.0%	1.9%	0.3%	0.4%	0.8%	4.2%	1.5%	0.4%	83.7%	0.1%	5.3%	0.4%	0.6%	0.8%	2.3%	96.9%	100%
URBN	Base	MercuryIng	Toddler	6.7%	0.0%	0.0%	0.0%	5.7%	0.0%	65.0%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.4%	0.0%	87.6%	100%
URBN	Project	MercuryIng	Toddler	6.7%	0.0%	0.0%	0.0%	5.7%	0.0%	65.0%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.4%	0.0%	87.6%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
URBN	Closure	Mercurylng	Toddler	6.7%	0.0%	0.0%	0.0%	5.7%	0.0%	65.0%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.4%	0.0%	87.6%	100%
URBN	Post Closure	Mercurylng	Toddler	6.7%	0.0%	0.0%	0.0%	5.7%	0.0%	65.0%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.4%	0.0%	87.6%	100%
COMM	Base	Mercurylng	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Mercurylng	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Mercurylng	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Mercurylng	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	Mercurylng	Child	0.0%	0.0%	0.7%	0.1%	0.1%	2.0%	7.5%	2.7%	0.8%	75.7%	0.1%	8.3%	0.8%	1.1%	0.2%	0.8%	99.0%	100%
RESI	Project	Mercurylng	Child	0.0%	0.0%	0.7%	0.1%	0.1%	2.1%	7.8%	2.9%	0.8%	74.7%	0.1%	8.7%	0.9%	1.1%	0.2%	0.8%	99.0%	100%
RESI	Closure	Mercurylng	Child	0.0%	0.0%	0.7%	0.1%	0.1%	2.1%	7.8%	2.9%	0.8%	74.7%	0.1%	8.7%	0.9%	1.1%	0.2%	0.8%	99.0%	100%
RESI	Post Closure	Mercurylng	Child	0.0%	0.0%	0.7%	0.1%	0.1%	2.1%	8.1%	2.9%	0.8%	74.1%	0.1%	8.8%	0.9%	1.2%	0.2%	0.8%	99.0%	100%
RECR	Base	Mercurylng	Child	0.1%	0.0%	1.8%	0.3%	0.4%	1.0%	4.0%	1.4%	0.4%	85.1%	0.1%	4.4%	0.4%	0.6%	0.4%	2.1%	97.5%	100%
RECR	Project	Mercurylng	Child	0.1%	0.0%	1.8%	0.2%	0.4%	1.1%	4.2%	1.5%	0.4%	84.5%	0.1%	4.6%	0.5%	0.6%	0.5%	2.1%	97.5%	100%
RECR	Closure	Mercurylng	Child	0.1%	0.0%	1.8%	0.2%	0.4%	1.1%	4.2%	1.5%	0.4%	84.5%	0.1%	4.6%	0.5%	0.6%	0.5%	2.1%	97.5%	100%
RECR	Post Closure	Mercurylng	Child	0.1%	0.0%	1.8%	0.2%	0.4%	1.1%	4.3%	1.6%	0.4%	84.1%	0.1%	4.7%	0.5%	0.6%	0.5%	2.1%	97.5%	100%
URBN	Base	Mercurylng	Child	1.2%	0.0%	0.0%	0.0%	6.2%	0.0%	67.8%	24.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	92.6%	100%
URBN	Project	Mercurylng	Child	1.2%	0.0%	0.0%	0.0%	6.2%	0.0%	67.8%	24.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	92.6%	100%
URBN	Closure	Mercurylng	Child	1.2%	0.0%	0.0%	0.0%	6.2%	0.0%	67.8%	24.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	92.6%	100%
URBN	Post Closure	Mercurylng	Child	1.2%	0.0%	0.0%	0.0%	6.2%	0.0%	67.8%	24.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	92.6%	100%
COMM	Base	Mercurylng	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Mercurylng	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Mercurylng	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Mercurylng	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	Mercurylng	Adolescent	0.0%	0.0%	0.7%	0.1%	0.2%	1.7%	7.5%	3.2%	0.8%	74.7%	0.1%	8.3%	1.3%	1.5%	0.2%	0.8%	99.0%	100%
RESI	Project	Mercurylng	Adolescent	0.0%	0.0%	0.7%	0.1%	0.2%	1.8%	7.9%	3.3%	0.8%	73.7%	0.1%	8.6%	1.3%	1.5%	0.2%	0.8%	99.0%	100%
RESI	Closure	Mercurylng	Adolescent	0.0%	0.0%	0.7%	0.1%	0.2%	1.8%	7.8%	3.3%	0.8%	73.7%	0.1%	8.6%	1.3%	1.5%	0.2%	0.8%	99.0%	100%
RESI	Post Closure	Mercurylng	Adolescent	0.0%	0.0%	0.7%	0.1%	0.2%	1.9%	8.1%	3.4%	0.8%	73.0%	0.1%	8.8%	1.4%	1.6%	0.2%	0.8%	99.0%	100%
RECR	Base	Mercurylng	Adolescent	0.0%	0.0%	1.5%	0.1%	0.3%	0.7%	3.2%	1.3%	0.3%	87.6%	0.0%	3.5%	0.5%	0.6%	0.4%	1.7%	97.9%	100%
RECR	Project	Mercurylng	Adolescent	0.0%	0.0%	1.5%	0.1%	0.4%	0.8%	3.4%	1.4%	0.3%	87.0%	0.0%	3.7%	0.6%	0.7%	0.4%	1.7%	97.9%	100%
RECR	Closure	Mercurylng	Adolescent	0.0%	0.0%	1.5%	0.1%	0.4%	0.8%	3.4%	1.4%	0.3%	87.0%	0.0%	3.7%	0.6%	0.7%	0.4%	1.7%	97.9%	100%
RECR	Post Closure	Mercurylng	Adolescent	0.1%	0.0%	1.5%	0.1%	0.4%	0.8%	3.5%	1.5%	0.4%	86.7%	0.1%	3.8%	0.6%	0.7%	0.4%	1.7%	97.9%	100%
URBN	Base	Mercurylng	Adolescent	0.9%	0.0%	0.0%	0.0%	7.0%	0.0%	64.8%	27.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.0%	0.0%	92.0%	100%
URBN	Project	Mercurylng	Adolescent	0.9%	0.0%	0.0%	0.0%	7.0%	0.0%	64.8%	27.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.0%	0.0%	92.0%	100%
URBN	Closure	Mercurylng	Adolescent	0.9%	0.0%	0.0%	0.0%	7.0%	0.0%	64.8%	27.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.0%	0.0%	92.0%	100%
URBN	Post Closure	Mercurylng	Adolescent	0.9%	0.0%	0.0%	0.0%	7.0%	0.0%	64.8%	27.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.0%	0.0%	92.0%	100%
COMM	Base	Mercurylng	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Mercurylng	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Mercurylng	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Mercurylng	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	Mercurylng	Adult	0.0%	0.0%	1.1%	0.1%	0.2%	1.6%	8.4%	2.6%	0.9%	73.6%	0.1%	8.5%	1.4%	1.5%	0.2%	1.1%	98.7%	100%
RESI	Project	Mercurylng	Adult	0.0%	0.0%	1.0%	0.1%	0.2%	1.7%	8.8%	2.7%	0.9%	72.5%	0.1%	8.8%	1.5%	1.5%	0.2%	1.1%	98.7%	100%
RESI	Closure	Mercurylng	Adult	0.0%	0.0%	1.0%	0.1%	0.2%	1.7%	8.8%	2.7%	0.9%	72.5%	0.1%	8.8%	1.5%	1.5%	0.2%	1.1%	98.7%	100%
RESI	Post Closure	Mercurylng	Adult	0.0%	0.0%	1.0%	0.1%	0.2%	1.8%	9.1%	2.8%	0.9%	71.9%	0.1%	9.0%	1.6%	1.6%	0.2%	1.1%	98.7%	100%
RECR	Base	Mercurylng	Adult	0.0%	0.0%	2.3%	0.1%	0.4%	0.7%	3.6%	1.1%	0.4%	86.5%	0.0%	3.6%	0.6%	0.6%	0.4%	2.4%	97.2%	100%
RECR	Project	Mercurylng	Adult	0.0%	0.0%	2.2%	0.1%	0.4%	0.7%	3.8%	1.2%	0.4%	85.9%	0.1%	3.8%	0.7%	0.7%	0.5%	2.4%	97.2%	100%
RECR	Closure	Mercurylng	Adult	0.0%	0.0%	2.2%	0.1%	0.4%	0.7%	3.8%	1.2%	0.4%	85.9%	0.1%	3.8%	0.7%	0.7%	0.5%	2.4%	97.2%	100%
RECR	Post Closure	Mercurylng	Adult	0.0%	0.0%	2.2%	0.1%	0.4%	0.8%	3.9%	1.2%	0.4%	85.6%	0.1%	3.9%	0.7%	0.7%	0.5%	2.4%	97.2%	100%
URBN	Base	Mercurylng	Adult	0.9%	0.0%	0.0%	0.0%	7.5%	0.0%	70.2%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	91.6%	100%
URBN	Project	Mercurylng	Adult	0.9%	0.0%	0.0%	0.0%	7.5%	0.0%	70.2%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	91.6%	100%
URBN	Closure	Mercurylng	Adult	0.9%	0.0%	0.0%	0.0%	7.5%	0.0%	70.2%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	91.6%	100%
URBN	Post Closure	Mercurylng	Adult	0.9%	0.0%	0.0%	0.0%	7.5%	0.0%	70.2%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	91.6%	100%
COMM	Base	Mercurylng	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	Mercurylng	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	Mercurylng	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	Mercurylng	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	Mercurylng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	Mercurylng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RESI	Post Closure-Base	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Project-Base	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Closure-Base	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Post Closure-Base	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure-Base	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	MercuryIng	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	MercuryIng	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	MercuryIng	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryIng	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryIng	Toddler	0.9%	0.0%	0.0%	0.0%	0.8%	0.9%	5.0%	1.5%	0.6%	0.0%	34.1%	15.2%	34.5%	6.7%	1.6%	0.0%	98.4%	100%
RESI	Closure-Base	MercuryIng	Toddler	0.9%	0.0%	0.0%	0.0%	0.8%	0.9%	5.0%	1.5%	0.6%	0.0%	34.1%	15.2%	34.5%	6.7%	1.6%	0.0%	98.4%	100%
RESI	Post Closure-Base	MercuryIng	Toddler	0.9%	0.0%	0.0%	0.0%	0.8%	0.9%	5.0%	1.5%	0.6%	0.0%	34.1%	15.2%	34.5%	6.7%	1.6%	0.0%	98.4%	100%
RECR	Project-Base	MercuryIng	Toddler	4.1%	0.0%	0.0%	0.0%	3.5%	0.8%	4.7%	1.4%	0.6%	0.0%	32.0%	14.2%	32.4%	6.3%	7.7%	0.0%	92.3%	100%
RECR	Closure-Base	MercuryIng	Toddler	4.1%	0.0%	0.0%	0.0%	3.5%	0.8%	4.7%	1.4%	0.6%	0.0%	32.0%	14.2%	32.4%	6.3%	7.7%	0.0%	92.3%	100%
RECR	Post Closure-Base	MercuryIng	Toddler	4.1%	0.0%	0.0%	0.0%	3.5%	0.8%	4.7%	1.4%	0.6%	0.0%	32.0%	14.2%	32.4%	6.3%	7.7%	0.0%	92.3%	100%
URBN	Project-Base	MercuryIng	Toddler	30.0%	0.0%	0.0%	0.0%	25.8%	0.0%	34.1%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.8%	0.0%	44.2%	100%
URBN	Closure-Base	MercuryIng	Toddler	30.0%	0.0%	0.0%	0.0%	25.8%	0.0%	34.1%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.8%	0.0%	44.2%	100%
URBN	Post Closure-Base	MercuryIng	Toddler	30.0%	0.0%	0.0%	0.0%	25.8%	0.0%	34.1%	10.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.8%	0.0%	44.2%	100%
COMM	Project-Base	MercuryIng	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	MercuryIng	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryIng	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryIng	Child	0.1%	0.0%	0.0%	0.0%	0.8%	1.2%	4.9%	1.5%	0.6%	0.0%	28.7%	12.8%	43.3%	6.0%	0.9%	0.0%	99.1%	100%
RESI	Closure-Base	MercuryIng	Child	0.1%	0.0%	0.0%	0.0%	0.8%	1.2%	4.9%	1.5%	0.6%	0.0%	28.7%	12.8%	43.3%	6.0%	0.9%	0.0%	99.1%	100%
RESI	Post Closure-Base	MercuryIng	Child	0.1%	0.0%	0.0%	0.0%	0.8%	1.2%	4.9%	1.5%	0.6%	0.0%	28.7%	12.8%	43.3%	6.0%	0.9%	0.0%	99.1%	100%
RECR	Project-Base	MercuryIng	Child	0.7%	0.0%	0.0%	0.0%	3.7%	1.2%	4.7%	1.5%	0.6%	0.0%	27.7%	12.3%	41.8%	5.8%	4.4%	0.0%	95.6%	100%
RECR	Closure-Base	MercuryIng	Child	0.7%	0.0%	0.0%	0.0%	3.7%	1.2%	4.7%	1.5%	0.6%	0.0%	27.7%	12.3%	41.8%	5.8%	4.4%	0.0%	95.6%	100%
RECR	Post Closure-Base	MercuryIng	Child	0.7%	0.0%	0.0%	0.0%	3.7%	1.2%	4.7%	1.5%	0.6%	0.0%	27.7%	12.3%	41.8%	5.8%	4.4%	0.0%	95.6%	100%
INDG_H	Project-Base	MercuryIng	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
INDG_H	Closure-Base	MercuryIng	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
INDG_H	Post Closure-Base	MercuryIng	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
INDG_A	Project-Base	MercuryIng	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
INDG_A	Closure-Base	MercuryIng	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
INDG_A	Post Closure-Base	MercuryIng	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Project-Base	MercuryIng	Child	6.7%	0.0%	0.0%	0.0%	34.9%	0.0%	44.4%	13.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.6%	0.0%	58.4%	100%
URBN	Closure-Base	MercuryIng	Child	6.7%	0.0%	0.0%	0.0%	34.9%	0.0%	44.4%	13.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.6%	0.0%	58.4%	100%
URBN	Post Closure-Base	MercuryIng	Child	6.7%	0.0%	0.0%	0.0%	34.9%	0.0%	44.4%	13.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.6%	0.0%	58.4%	100%
COMM	Project-Base	MercuryIng	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	MercuryIng	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryIng	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryIng	Adolescent	0.1%	0.0%	0.0%	0.0%	0.7%	0.9%	3.9%	1.4%	0.5%	0.0%	22.6%	10.1%	53.4%	6.5%	0.8%	0.0%	99.2%	100%
RESI	Closure-Base	MercuryIng	Adolescent	0.1%	0.0%	0.0%	0.0%	0.7%	0.9%	3.9%	1.4%	0.5%	0.0%	22.6%	10.1%	53.4%	6.5%	0.8%	0.0%	99.2%	100%
RESI	Post Closure-Base	MercuryIng	Adolescent	0.1%	0.0%	0.0%	0.0%	0.7%	0.9%	3.9%	1.4%	0.5%	0.0%	22.6%	10.1%	53.4%	6.5%	0.8%	0.0%	99.2%	100%
RECR	Project-Base	MercuryIng	Adolescent	0.5%	0.0%	0.0%	0.0%	3.5%	0.8%	3.7%	1.4%	0.4%	0.0%	21.9%	9.7%	51.7%	6.3%	4.0%	0.0%	96.0%	100%
RECR	Closure-Base	MercuryIng	Adolescent	0.5%	0.0%	0.0%	0.0%	3.5%	0.8%	3.7%	1.4%	0.4%	0.0%	21.9%	9.7%	51.7%	6.3%	4.0%	0.0%	96.0%	100%
RECR	Post Closure-Base	MercuryIng	Adolescent	0.5%	0.0%	0.0%	0.0%	3.5%	0.8%	3.7%	1.4%	0.4%	0.0%	21.9%	9.7%	51.7%	6.3%	4.0%	0.0%	96.0%	100%
URBN	Project-Base	MercuryIng	Adolescent	5.1%	0.0%	0.0%	0.0%	38.6%	0.0%	41.4%	14.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.7%	0.0%	56.3%	100%
URBN	Closure-Base	MercuryIng	Adolescent	5.1%	0.0%	0.0%	0.0%	38.6%	0.0%	41.4%	14.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.7%	0.0%	56.3%	100%
URBN	Post Closure-Base	MercuryIng	Adolescent	5.1%	0.0%	0.0%	0.0%	38.6%	0.0%	41.4%	14.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.7%	0.0%	56.3%	100%
COMM	Project-Base	MercuryIng	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	MercuryIng	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryIng	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryIng	Adult	0.1%	0.0%	0.0%	0.0%	0.7%	0.8%	4.0%	1.0%	0.5%	0.0%	21.3%	9.5%	56.1%	6.0%	0.8%	0.0%	99.2%	100%
RESI	Closure-Base	MercuryIng	Adult	0.1%	0.0%	0.0%	0.0%	0.7%	0.8%	4.0%	1.0%	0.5%	0.0%	21.3%	9.5%	56.1%	6.0%	0.8%	0.0%	99.2%	100%
RESI	Post Closure-Base	MercuryIng	Adult	0.1%	0.0%	0.0%	0.0%	0.7%	0.8%	4.0%	1.0%	0.5%	0.0%	21.3%	9.5%	56.1%	6.0%	0.8%	0.0%	99.2%	100%
RECR	Project-Base	MercuryIng	Adult	0.4%	0.0%	0.0%	0.0%	3.6%	0.7%	3.9%	1.0%	0.5%	0.0%	20.6%	9.2%	54.3%	5.8%	4.0%	0.0%	96.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
RECR	Closure-Base	MercuryIng	Adult	0.4%	0.0%	0.0%	0.0%	3.6%	0.7%	3.9%	1.0%	0.5%	0.0%	20.6%	9.2%	54.3%	5.8%	4.0%	0.0%	96.0%	100%
RECR	Post Closure-Base	MercuryIng	Adult	0.4%	0.0%	0.0%	0.0%	3.6%	0.7%	3.9%	1.0%	0.5%	0.0%	20.6%	9.2%	54.3%	5.8%	4.0%	0.0%	96.0%	100%
URBN	Project-Base	MercuryIng	Adult	4.7%	0.0%	0.0%	0.0%	40.2%	0.0%	43.7%	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.9%	0.0%	55.1%	100%
URBN	Closure-Base	MercuryIng	Adult	4.7%	0.0%	0.0%	0.0%	40.2%	0.0%	43.7%	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.9%	0.0%	55.1%	100%
URBN	Post Closure-Base	MercuryIng	Adult	4.7%	0.0%	0.0%	0.0%	40.2%	0.0%	43.7%	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.9%	0.0%	55.1%	100%
COMM	Project-Base	MercuryIng	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	MercuryIng	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryIng	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
MercuryMethyl																					
RESI	Base	MercuryMethyl	Infant	1.3%	0.0%	95.5%	0.0%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	95.5%	0.0%	100%
RESI	Project	MercuryMethyl	Infant	1.4%	0.0%	95.2%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%	95.2%	0.0%	100%
RESI	Closure	MercuryMethyl	Infant	1.4%	0.0%	95.2%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%	95.2%	0.0%	100%
RESI	Post Closure	MercuryMethyl	Infant	1.4%	0.0%	95.0%	0.0%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	95.0%	0.0%	100%
RECR	Base	MercuryMethyl	Infant	1.3%	0.0%	95.5%	0.0%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	95.5%	0.0%	100%
RECR	Project	MercuryMethyl	Infant	1.4%	0.0%	95.2%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%	95.2%	0.0%	100%
RECR	Closure	MercuryMethyl	Infant	1.4%	0.0%	95.2%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%	95.2%	0.0%	100%
RECR	Post Closure	MercuryMethyl	Infant	1.4%	0.0%	95.0%	0.0%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	95.0%	0.0%	100%
URBN	Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Closure	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Base	MercuryMethyl	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project	MercuryMethyl	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	MercuryMethyl	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	MercuryMethyl	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.0%	0.1%	6.9%	0.5%	2.5%	0.0%	0.0%	100.0%	100%
RESI	Project	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	89.5%	0.1%	7.2%	0.5%	2.6%	0.0%	0.0%	100.0%	100%
RESI	Closure	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	89.5%	0.1%	7.2%	0.5%	2.6%	0.0%	0.0%	100.0%	100%
RESI	Post Closure	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	89.2%	0.1%	7.4%	0.5%	2.7%	0.0%	0.0%	100.0%	100%
RECR	Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.6%	0.0%	3.0%	0.2%	1.1%	0.0%	0.1%	99.9%	100%
RECR	Project	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.4%	0.0%	3.1%	0.2%	1.1%	0.0%	0.1%	99.9%	100%
RECR	Closure	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.4%	0.0%	3.1%	0.2%	1.1%	0.0%	0.1%	99.9%	100%
RECR	Post Closure	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.3%	0.0%	3.2%	0.2%	1.2%	0.0%	0.1%	99.9%	100%
URBN	Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Project	MercuryMethyl	Toddler	5.4%	0.0%	0.0%	0.0%	4.6%	0.0%	66.8%	23.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	90.0%	100%
URBN	Closure	MercuryMethyl	Toddler	5.4%	0.0%	0.0%	0.0%	4.6%	0.0%	66.7%	23.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	90.0%	100%
URBN	Post Closure	MercuryMethyl	Toddler	5.4%	0.0%	0.0%	0.0%	4.6%	0.0%	66.7%	23.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	90.0%	100%
COMM	Base	MercuryMethyl	Toddler	5.4%	0.0%	0.0%	0.0%	4.6%	0.0%	66.7%	23.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	90.0%	100%
COMM	Project	MercuryMethyl	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	MercuryMethyl	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	MercuryMethyl	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	MercuryMethyl	Child	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	91.9%	0.1%	5.4%	0.5%	2.1%	0.0%	0.0%	100.0%	100%
RESI	Closure	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	91.5%	0.1%	5.6%	0.6%	2.2%	0.0%	0.0%	100.0%	100%
RESI	Post Closure	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	91.5%	0.1%	5.6%	0.6%	2.2%	0.0%	0.0%	100.0%	100%
RECR	Base	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	91.3%	0.1%	5.7%	0.6%	2.3%	0.0%	0.0%	100.0%	100%
RECR	Project	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.0%	0.0%	2.6%	0.3%	1.0%	0.0%	0.0%	100.0%	100%
RECR	Closure	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.8%	0.0%	2.8%	0.3%	1.1%	0.0%	0.0%	100.0%	100%
RECR	Post Closure	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.8%	0.0%	2.8%	0.3%	1.1%	0.0%	0.0%	100.0%	100%
URBN	Base	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Project	MercuryMethyl	Child	0.9%	0.0%	0.0%	0.0%	5.0%	0.0%	68.9%	25.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%	94.1%	100%
URBN	Closure	MercuryMethyl	Child	0.9%	0.0%	0.0%	0.0%	5.0%	0.0%	68.9%	25.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%	94.1%	100%
URBN	Post Closure	MercuryMethyl	Child	0.9%	0.0%	0.0%	0.0%	5.0%	0.0%	68.9%	25.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%	94.1%	100%
COMM	Base	MercuryMethyl	Child	0.9%	0.0%	0.0%	0.0%	5.0%	0.0%	68.9%	25.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%	94.1%	100%
COMM	Project	MercuryMethyl	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Closure	MercuryMethyl	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	MercuryMethyl	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	MercuryMethyl	Adolescent	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.8%	0.1%	5.3%	0.8%	2.9%	0.0%	0.0%	100.0%	100%
RESI	Closure	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.4%	0.1%	5.6%	0.9%	3.0%	0.0%	0.0%	100.0%	100%
RESI	Post Closure	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.4%	0.1%	5.6%	0.9%	3.0%	0.0%	0.0%	100.0%	100%
RECR	Base	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.1%	0.1%	5.7%	0.9%	3.1%	0.0%	0.0%	100.0%	100%
RECR	Project	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.4%	0.0%	2.1%	0.3%	1.1%	0.0%	0.0%	100.0%	100%
RECR	Closure	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.2%	0.0%	2.2%	0.3%	1.2%	0.0%	0.0%	100.0%	100%
RECR	Post Closure	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.2%	0.0%	2.2%	0.3%	1.2%	0.0%	0.0%	100.0%	100%
URBN	Base	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Project	MercuryMethyl	Adolescent	0.7%	0.0%	0.0%	0.0%	5.6%	0.0%	65.9%	27.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%	0.0%	93.6%	100%
URBN	Closure	MercuryMethyl	Adolescent	0.7%	0.0%	0.0%	0.0%	5.6%	0.0%	65.9%	27.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%	0.0%	93.6%	100%
URBN	Post Closure	MercuryMethyl	Adolescent	0.7%	0.0%	0.0%	0.0%	5.6%	0.0%	65.9%	27.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%	0.0%	93.6%	100%
COMM	Base	MercuryMethyl	Adolescent	0.7%	0.0%	0.0%	0.0%	5.6%	0.0%	65.9%	27.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%	0.0%	93.6%	100%
COMM	Project	MercuryMethyl	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	MercuryMethyl	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	MercuryMethyl	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Base	MercuryMethyl	Adult	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.5%	0.1%	5.5%	0.9%	2.9%	0.0%	0.0%	100.0%	100%
RESI	Closure	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.0%	0.1%	5.8%	1.0%	3.0%	0.0%	0.0%	100.0%	100%
RESI	Post Closure	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.0%	0.1%	5.8%	1.0%	3.0%	0.0%	0.0%	100.0%	100%
RECR	Base	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	89.7%	0.1%	5.9%	1.0%	3.1%	0.0%	0.0%	100.0%	100%
RECR	Project	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.3%	0.0%	2.1%	0.4%	1.1%	0.0%	0.1%	99.9%	100%
RECR	Closure	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.1%	0.0%	2.3%	0.4%	1.2%	0.0%	0.1%	99.9%	100%
RECR	Post Closure	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.1%	0.0%	2.3%	0.4%	1.2%	0.0%	0.1%	99.9%	100%
URBN	Base	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Project	MercuryMethyl	Adult	0.7%	0.0%	0.0%	0.0%	6.0%	0.0%	71.5%	21.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	93.3%	100%
URBN	Closure	MercuryMethyl	Adult	0.7%	0.0%	0.0%	0.0%	6.0%	0.0%	71.5%	21.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	93.3%	100%
URBN	Post Closure	MercuryMethyl	Adult	0.7%	0.0%	0.0%	0.0%	6.0%	0.0%	71.5%	21.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	93.3%	100%
COMM	Base	MercuryMethyl	Adult	0.7%	0.0%	0.0%	0.0%	6.0%	0.0%	71.5%	21.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	93.3%	100%
COMM	Project	MercuryMethyl	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure	MercuryMethyl	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure	MercuryMethyl	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryMethyl	Infant	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Post Closure-Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Project-Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Closure-Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RECR	Post Closure-Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Project-Base	MercuryMethyl	Infant	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Closure-Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
URBN	Post Closure-Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Project-Base	MercuryMethyl	Infant	28.9%	0.0%	0.0%	0.0%	71.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Closure-Base	MercuryMethyl	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryMethyl	Infant	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryMethyl	Toddler	28.7%	0.8%	0.0%	0.0%	70.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.8%	14.6%	33.2%	19.3%	0.0%	0.0%	100.0%	100%
RESI	Post Closure-Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.8%	14.6%	33.2%	19.3%	0.0%	0.0%	100.0%	100%
RECR	Project-Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.8%	14.6%	33.2%	19.3%	0.0%	0.0%	100.0%	100%
RECR	Closure-Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.8%	14.6%	33.2%	19.3%	0.0%	0.0%	100.0%	100%
RECR	Post Closure-Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.8%	14.6%	33.2%	19.3%	0.0%	0.0%	100.0%	100%
URBN	Project-Base	MercuryMethyl	Toddler	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Closure-Base	MercuryMethyl	Toddler	26.8%	0.0%	0.0%	0.0%	23.0%	0.0%	38.7%	11.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	49.8%	0.0%	50.2%	100%
URBN	Post Closure-Base	MercuryMethyl	Toddler	26.8%	0.0%	0.0%	0.0%	23.0%	0.0%	38.7%	11.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	49.8%	0.0%	50.2%	100%
COMM	Project-Base	MercuryMethyl	Toddler	26.8%	0.0%	0.0%	0.0%	23.0%	0.0%	38.7%	11.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	49.8%	0.0%	50.2%	100%

Table 1-3: Estimated Daily Intakes as a Percentage of Total Exposure

Receptor	Case	Chemical	Lifestage	Soil SIR [mg/day]	Dust AIR [mg/day]	SW WIR [mg/day]	SW SWIM [mg/day]	Soil Dermal [mg/day]	Berry Berry [mg/day]	AG_Plant AG_Plant [mg/day]	BG_Plant BG_Plant [mg/day]	TradPlant TradPlant [mg/day]	Fish Fish [mg/day]	Grouse Grouse [mg/day]	Mallard Mallard [mg/day]	Hare Hare [mg/day]	Moose Moose [mg/day]	Total Soil Soil [mg/day]	Total Water Water [mg/day]	Total Diet Diet [mg/day]	Total Total [mg/day]
COMM	Closure-Base	MercuryMethyl	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryMethyl	Toddler	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryMethyl	Child	53.0%	1.4%	0.0%	0.0%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.9%	12.4%	42.1%	17.6%	0.0%	0.0%	100.0%	100%
RESI	Post Closure-Base	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.9%	12.4%	42.1%	17.6%	0.0%	0.0%	100.0%	100%
RECR	Project-Base	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.9%	12.4%	42.1%	17.6%	0.0%	0.0%	100.0%	100%
RECR	Closure-Base	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.9%	12.4%	42.0%	17.6%	0.0%	0.0%	100.0%	100%
RECR	Post Closure-Base	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.9%	12.4%	42.0%	17.6%	0.0%	0.0%	100.0%	100%
URBN	Project-Base	MercuryMethyl	Child	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Closure-Base	MercuryMethyl	Child	5.8%	0.0%	0.0%	0.0%	30.1%	0.0%	48.8%	15.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.9%	0.0%	64.1%	100%
URBN	Post Closure-Base	MercuryMethyl	Child	5.8%	0.0%	0.0%	0.0%	30.1%	0.0%	48.8%	15.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.9%	0.0%	64.1%	100%
COMM	Project-Base	MercuryMethyl	Child	5.8%	0.0%	0.0%	0.0%	30.1%	0.0%	48.8%	15.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.9%	0.0%	64.1%	100%
COMM	Closure-Base	MercuryMethyl	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryMethyl	Child	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryMethyl	Adolescent	15.6%	2.8%	0.0%	0.0%	81.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.4%	9.5%	50.6%	18.4%	0.0%	0.0%	100.0%	100%
RESI	Post Closure-Base	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.4%	9.5%	50.6%	18.4%	0.0%	0.0%	100.0%	100%
RECR	Project-Base	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.4%	9.5%	50.6%	18.4%	0.0%	0.0%	100.0%	100%
RECR	Closure-Base	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.4%	9.5%	50.6%	18.4%	0.0%	0.0%	100.0%	100%
RECR	Post Closure-Base	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.4%	9.5%	50.6%	18.4%	0.0%	0.0%	100.0%	100%
URBN	Project-Base	MercuryMethyl	Adolescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Closure-Base	MercuryMethyl	Adolescent	4.4%	0.0%	0.0%	0.0%	33.5%	0.0%	45.6%	16.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	37.9%	0.0%	62.1%	100%
URBN	Post Closure-Base	MercuryMethyl	Adolescent	4.4%	0.0%	0.0%	0.0%	33.5%	0.0%	45.6%	16.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	37.9%	0.0%	62.1%	100%
COMM	Project-Base	MercuryMethyl	Adolescent	4.4%	0.0%	0.0%	0.0%	33.5%	0.0%	45.6%	16.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	37.9%	0.0%	62.1%	100%
COMM	Closure-Base	MercuryMethyl	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryMethyl	Adolescent	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Project-Base	MercuryMethyl	Adult	11.4%	2.2%	0.0%	0.0%	86.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
RESI	Closure-Base	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.3%	9.1%	53.5%	17.0%	0.0%	0.0%	100.0%	100%
RESI	Post Closure-Base	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.3%	9.1%	53.5%	17.0%	0.0%	0.0%	100.0%	100%
RECR	Project-Base	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.3%	9.1%	53.5%	17.0%	0.0%	0.0%	100.0%	100%
RECR	Closure-Base	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.3%	9.0%	53.5%	17.0%	0.0%	0.0%	100.0%	100%
RECR	Post Closure-Base	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.3%	9.0%	53.5%	17.0%	0.0%	0.0%	100.0%	100%
URBN	Project-Base	MercuryMethyl	Adult	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
URBN	Closure-Base	MercuryMethyl	Adult	4.1%	0.0%	0.0%	0.0%	35.0%	0.0%	48.3%	12.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.1%	0.0%	60.9%	100%
URBN	Post Closure-Base	MercuryMethyl	Adult	4.1%	0.0%	0.0%	0.0%	35.0%	0.0%	48.3%	12.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.1%	0.0%	60.9%	100%
COMM	Project-Base	MercuryMethyl	Adult	4.1%	0.0%	0.0%	0.0%	35.0%	0.0%	48.3%	12.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.1%	0.0%	60.9%	100%
COMM	Closure-Base	MercuryMethyl	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
COMM	Post Closure-Base	MercuryMethyl	Adult	10.2%	2.1%	0.0%	0.0%	87.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Base	Arsenic	Infant	RfD	4.09E-06	9.29E-06	0.00E+00	1.34E-05	6.81E-02	1.55E-01	0.00E+00	2.23E-01
RESI	Base	Barium	Infant	RfD	2.41E-04	3.80E-04	0.00E+00	6.21E-04	1.20E-03	1.90E-03	0.00E+00	3.11E-03
RESI	Base	Beryllium	Infant	RfD	8.81E-07	4.10E-06	0.00E+00	4.98E-06	4.41E-04	2.05E-03	0.00E+00	2.49E-03
RESI	Base	Chromium	Infant	RfD	1.55E-04	4.98E-05	0.00E+00	2.05E-04	1.03E-04	3.32E-05	0.00E+00	1.36E-04
RESI	Base	Cobalt	Infant	RfD	2.00E-05	5.71E-06	0.00E+00	2.57E-05	6.66E-02	1.90E-02	0.00E+00	8.56E-02
RESI	Base	Iron	Infant	RfD	1.56E-01	1.45E-03	0.00E+00	1.57E-01	2.22E-01	2.06E-03	0.00E+00	2.25E-01
RESI	Base	Lead	Infant	RfD	1.34E-05	7.61E-06	0.00E+00	2.10E-05	2.69E-02	1.52E-02	0.00E+00	4.21E-02
RESI	Base	Manganese	Infant	RfD	3.10E-03	3.99E-04	0.00E+00	3.50E-03	6.46E-02	1.60E-02	0.00E+00	8.05E-02
RESI	Base	Mercury	Infant	RfD	4.21E-07	1.33E-06	0.00E+00	1.75E-06	2.11E-03	6.66E-03	0.00E+00	8.77E-03
RESI	Base	Molybdenum	Infant	RfD	2.29E-06	1.42E-05	0.00E+00	1.65E-05	4.58E-04	2.85E-03	0.00E+00	3.30E-03
RESI	Base	Selenium	Infant	RfD	1.25E-06	1.72E-05	0.00E+00	1.85E-05	2.27E-04	3.13E-03	0.00E+00	3.36E-03
RESI	Project	Arsenic	Infant	RfD	4.20E-06	1.67E-05	0.00E+00	2.09E-05	7.00E-02	2.78E-01	0.00E+00	3.48E-01
RESI	Project	Barium	Infant	RfD	2.52E-04	4.90E-04	0.00E+00	7.42E-04	1.26E-03	2.45E-03	0.00E+00	3.71E-03
RESI	Project	Beryllium	Infant	RfD	9.26E-07	5.05E-06	0.00E+00	5.98E-06	4.63E-04	2.53E-03	0.00E+00	2.99E-03
RESI	Project	Chromium	Infant	RfD	1.58E-04	4.98E-05	0.00E+00	2.08E-04	1.05E-04	3.32E-05	0.00E+00	1.39E-04
RESI	Project	Cobalt	Infant	RfD	2.04E-05	5.95E-05	0.00E+00	7.98E-05	6.79E-02	1.98E-01	0.00E+00	2.66E-01
RESI	Project	Iron	Infant	RfD	1.60E-01	6.84E-03	0.00E+00	1.67E-01	2.28E-01	9.77E-03	0.00E+00	2.38E-01
RESI	Project	Lead	Infant	RfD	1.37E-05	6.73E-06	0.00E+00	2.04E-05	2.74E-02	1.35E-02	0.00E+00	4.09E-02
RESI	Project	Manganese	Infant	RfD	3.19E-03	3.57E-03	0.00E+00	6.76E-03	6.65E-02	1.43E-01	0.00E+00	2.09E-01
RESI	Project	Mercury	Infant	RfD	4.24E-07	1.26E-06	0.00E+00	1.68E-06	2.12E-03	6.28E-03	0.00E+00	8.40E-03
RESI	Project	Molybdenum	Infant	RfD	2.70E-06	8.93E-05	0.00E+00	9.20E-05	5.39E-04	1.79E-02	0.00E+00	1.84E-02
RESI	Project	Selenium	Infant	RfD	1.28E-06	3.55E-05	0.00E+00	3.67E-05	2.33E-04	6.45E-03	0.00E+00	6.68E-03
RESI	Closure	Arsenic	Infant	RfD	4.20E-06	1.30E-05	0.00E+00	1.72E-05	7.00E-02	2.16E-01	0.00E+00	2.86E-01
RESI	Closure	Barium	Infant	RfD	2.52E-04	4.87E-04	0.00E+00	7.39E-04	1.26E-03	2.43E-03	0.00E+00	3.69E-03
RESI	Closure	Beryllium	Infant	RfD	9.26E-07	4.36E-06	0.00E+00	5.29E-06	4.63E-04	2.18E-03	0.00E+00	2.64E-03
RESI	Closure	Chromium	Infant	RfD	1.58E-04	4.61E-05	0.00E+00	2.04E-04	1.05E-04	3.07E-05	0.00E+00	1.36E-04
RESI	Closure	Cobalt	Infant	RfD	2.04E-05	3.81E-05	0.00E+00	5.84E-05	6.79E-02	1.27E-01	0.00E+00	1.95E-01
RESI	Closure	Iron	Infant	RfD	1.60E-01	5.59E-03	0.00E+00	1.65E-01	2.28E-01	7.98E-03	0.00E+00	2.36E-01
RESI	Closure	Lead	Infant	RfD	1.37E-05	6.33E-06	0.00E+00	2.00E-05	2.74E-02	1.27E-02	0.00E+00	4.01E-02
RESI	Closure	Manganese	Infant	RfD	3.19E-03	2.61E-03	0.00E+00	5.80E-03	6.65E-02	1.04E-01	0.00E+00	1.71E-01
RESI	Closure	Mercury	Infant	RfD	4.24E-07	1.26E-06	0.00E+00	1.68E-06	2.12E-03	6.29E-03	0.00E+00	8.41E-03
RESI	Closure	Molybdenum	Infant	RfD	2.70E-06	6.52E-05	0.00E+00	6.79E-05	5.39E-04	1.30E-02	0.00E+00	1.36E-02
RESI	Closure	Selenium	Infant	RfD	1.28E-06	2.66E-05	0.00E+00	2.79E-05	2.33E-04	4.84E-03	0.00E+00	5.08E-03
RESI	Post Closure	Arsenic	Infant	RfD	4.20E-06	7.38E-06	0.00E+00	1.16E-05	7.00E-02	1.23E-01	0.00E+00	1.93E-01
RESI	Post Closure	Barium	Infant	RfD	2.52E-04	4.79E-04	0.00E+00	7.31E-04	1.26E-03	2.40E-03	0.00E+00	3.66E-03
RESI	Post Closure	Beryllium	Infant	RfD	9.26E-07	3.20E-06	0.00E+00	4.13E-06	4.63E-04	1.60E-03	0.00E+00	2.06E-03
RESI	Post Closure	Chromium	Infant	RfD	1.58E-04	3.93E-05	0.00E+00	1.97E-04	1.05E-04	2.62E-05	0.00E+00	1.32E-04
RESI	Post Closure	Cobalt	Infant	RfD	2.04E-05	4.86E-06	0.00E+00	2.52E-05	6.79E-02	1.62E-02	0.00E+00	8.40E-02

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Post Closure	Iron	Infant	RfD	1.60E-01	4.27E-03	0.00E+00	1.64E-01	2.28E-01	6.09E-03	0.00E+00	2.35E-01
RESI	Post Closure	Lead	Infant	RfD	1.37E-05	5.11E-06	0.00E+00	1.88E-05	2.74E-02	1.02E-02	0.00E+00	3.76E-02
RESI	Post Closure	Manganese	Infant	RfD	3.19E-03	2.37E-03	0.00E+00	5.56E-03	6.65E-02	9.46E-02	0.00E+00	1.61E-01
RESI	Post Closure	Mercury	Infant	RfD	4.24E-07	1.21E-06	0.00E+00	1.63E-06	2.12E-03	6.05E-03	0.00E+00	8.17E-03
RESI	Post Closure	Molybdenum	Infant	RfD	2.70E-06	4.41E-05	0.00E+00	4.67E-05	5.39E-04	8.81E-03	0.00E+00	9.35E-03
RESI	Post Closure	Selenium	Infant	RfD	1.28E-06	1.31E-05	0.00E+00	1.44E-05	2.33E-04	2.39E-03	0.00E+00	2.62E-03
RESI	Base	Arsenic	Toddler	RfD	7.76E-06	1.08E-05	1.07E-05	2.92E-05	1.29E-01	1.80E-01	1.78E-01	4.87E-01
RESI	Base	Barium	Toddler	RfD	4.17E-04	4.41E-04	1.69E-03	2.54E-03	2.09E-03	2.21E-03	8.43E-03	1.27E-02
RESI	Base	Beryllium	Toddler	RfD	1.53E-06	4.75E-06	1.18E-05	1.81E-05	7.64E-04	2.38E-03	5.90E-03	9.04E-03
RESI	Base	Chromium	Toddler	RfD	2.68E-04	5.77E-05	4.50E-04	7.76E-04	1.79E-04	3.85E-05	3.00E-04	5.18E-04
RESI	Base	Cobalt	Toddler	RfD	3.46E-05	6.55E-06	1.08E-04	1.49E-04	1.15E-01	2.18E-02	3.61E-01	4.98E-01
RESI	Base	Iron	Toddler	RfD	2.70E-01	1.68E-03	2.28E-01	4.99E-01	3.86E-01	2.39E-03	3.25E-01	7.13E-01
RESI	Base	Lead	Toddler	RfD	2.64E-05	8.69E-06	1.38E-04	1.73E-04	5.29E-02	1.74E-02	2.76E-01	3.46E-01
RESI	Base	Manganese	Toddler	RfD	5.37E-03	4.63E-04	1.20E-01	1.26E-01	1.12E-01	1.85E-02	8.59E-01	9.89E-01
RESI	Base	Mercury	Toddler	RfD	4.51E-07	1.54E-06	7.95E-04	7.97E-04	2.25E-03	7.72E-03	3.97E+00	3.98E+00
RESI	Base	Molybdenum	Toddler	RfD	3.97E-06	1.65E-05	2.00E-04	2.21E-04	7.93E-04	3.30E-03	4.00E-02	4.41E-02
RESI	Base	Selenium	Toddler	RfD	2.45E-06	2.00E-05	1.09E-03	1.11E-03	4.45E-04	3.63E-03	1.98E-01	2.02E-01
RESI	Project	Arsenic	Toddler	RfD	7.98E-06	1.93E-05	1.51E-05	4.24E-05	1.33E-01	3.22E-01	2.51E-01	7.06E-01
RESI	Project	Barium	Toddler	RfD	4.37E-04	5.68E-04	1.83E-03	2.83E-03	2.18E-03	2.84E-03	9.13E-03	1.42E-02
RESI	Project	Beryllium	Toddler	RfD	1.60E-06	5.86E-06	1.43E-05	2.18E-05	8.02E-04	2.93E-03	7.15E-03	1.09E-02
RESI	Project	Chromium	Toddler	RfD	2.74E-04	5.78E-05	5.09E-04	8.41E-04	1.83E-04	3.86E-05	3.40E-04	5.61E-04
RESI	Project	Cobalt	Toddler	RfD	3.53E-05	6.83E-05	1.89E-04	2.93E-04	1.18E-01	2.28E-01	6.31E-01	9.76E-01
RESI	Project	Iron	Toddler	RfD	2.77E-01	7.93E-03	3.46E-01	6.32E-01	3.96E-01	1.13E-02	4.95E-01	9.02E-01
RESI	Project	Lead	Toddler	RfD	2.70E-05	7.68E-06	1.03E-04	1.37E-04	5.40E-02	1.54E-02	2.05E-01	2.75E-01
RESI	Project	Manganese	Toddler	RfD	5.53E-03	4.14E-03	1.25E-01	1.35E-01	1.15E-01	1.66E-01	8.93E-01	1.17E+00
RESI	Project	Mercury	Toddler	RfD	4.54E-07	1.46E-06	7.55E-04	7.57E-04	2.27E-03	7.29E-03	3.77E+00	3.78E+00
RESI	Project	Molybdenum	Toddler	RfD	4.68E-06	1.04E-04	6.44E-04	7.53E-04	9.35E-04	2.07E-02	1.29E-01	1.51E-01
RESI	Project	Selenium	Toddler	RfD	2.51E-06	4.11E-05	2.44E-03	2.48E-03	4.56E-04	7.48E-03	4.43E-01	4.51E-01
RESI	Closure	Arsenic	Toddler	RfD	7.98E-06	1.51E-05	1.34E-05	3.64E-05	1.33E-01	2.51E-01	2.23E-01	6.07E-01
RESI	Closure	Barium	Toddler	RfD	4.37E-04	5.65E-04	1.82E-03	2.82E-03	2.18E-03	2.82E-03	9.11E-03	1.41E-02
RESI	Closure	Beryllium	Toddler	RfD	1.60E-06	5.06E-06	1.29E-05	1.95E-05	8.02E-04	2.53E-03	6.43E-03	9.76E-03
RESI	Closure	Chromium	Toddler	RfD	2.74E-04	5.35E-05	5.00E-04	8.28E-04	1.83E-04	3.56E-05	3.33E-04	5.52E-04
RESI	Closure	Cobalt	Toddler	RfD	3.53E-05	4.37E-05	1.63E-04	2.42E-04	1.18E-01	1.46E-01	5.43E-01	8.07E-01
RESI	Closure	Iron	Toddler	RfD	2.77E-01	6.48E-03	3.32E-01	6.15E-01	3.96E-01	9.26E-03	4.74E-01	8.79E-01
RESI	Closure	Lead	Toddler	RfD	2.70E-05	7.23E-06	1.02E-04	1.36E-04	5.40E-02	1.45E-02	2.04E-01	2.72E-01
RESI	Closure	Manganese	Toddler	RfD	5.53E-03	3.03E-03	1.24E-01	1.32E-01	1.15E-01	1.21E-01	8.83E-01	1.12E+00
RESI	Closure	Mercury	Toddler	RfD	4.54E-07	1.46E-06	7.56E-04	7.58E-04	2.27E-03	7.30E-03	3.78E+00	3.79E+00
RESI	Closure	Molybdenum	Toddler	RfD	4.68E-06	7.56E-05	5.09E-04	5.89E-04	9.35E-04	1.51E-02	1.02E-01	1.18E-01

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Closure	Selenium	Toddler	RfD	2.51E-06	3.09E-05	1.92E-03	1.96E-03	4.56E-04	5.62E-03	3.49E-01	3.55E-01
RESI	Post Closure	Arsenic	Toddler	RfD	7.98E-06	8.56E-06	1.25E-05	2.90E-05	1.33E-01	1.43E-01	2.08E-01	4.84E-01
RESI	Post Closure	Barium	Toddler	RfD	4.37E-04	5.56E-04	1.81E-03	2.81E-03	2.18E-03	2.78E-03	9.07E-03	1.40E-02
RESI	Post Closure	Beryllium	Toddler	RfD	1.60E-06	3.71E-06	1.05E-05	1.58E-05	8.02E-04	1.86E-03	5.23E-03	7.89E-03
RESI	Post Closure	Chromium	Toddler	RfD	2.74E-04	4.55E-05	4.89E-04	8.09E-04	1.83E-04	3.04E-05	3.26E-04	5.39E-04
RESI	Post Closure	Cobalt	Toddler	RfD	3.53E-05	5.58E-06	1.25E-04	1.66E-04	1.18E-01	1.86E-02	4.17E-01	5.53E-01
RESI	Post Closure	Iron	Toddler	RfD	2.77E-01	4.95E-03	3.28E-01	6.10E-01	3.96E-01	7.07E-03	4.68E-01	8.71E-01
RESI	Post Closure	Lead	Toddler	RfD	2.70E-05	5.83E-06	1.01E-04	1.33E-04	5.40E-02	1.17E-02	2.01E-01	2.67E-01
RESI	Post Closure	Manganese	Toddler	RfD	5.53E-03	2.74E-03	1.23E-01	1.32E-01	1.15E-01	1.10E-01	8.81E-01	1.11E+00
RESI	Post Closure	Mercury	Toddler	RfD	4.54E-07	1.40E-06	7.31E-04	7.32E-04	2.27E-03	7.02E-03	3.65E+00	3.66E+00
RESI	Post Closure	Molybdenum	Toddler	RfD	4.68E-06	5.11E-05	4.74E-04	5.30E-04	9.35E-04	1.02E-02	9.48E-02	1.06E-01
RESI	Post Closure	Selenium	Toddler	RfD	2.51E-06	1.52E-05	3.64E-03	3.66E-03	4.56E-04	2.77E-03	6.62E-01	6.65E-01
RESI	Base	Arsenic	Child	RfD	1.10E-06	7.01E-06	8.10E-06	1.62E-05	1.83E-02	1.17E-01	1.35E-01	2.70E-01
RESI	Base	Barium	Child	RfD	7.33E-05	2.87E-04	1.31E-03	1.67E-03	3.67E-04	1.44E-03	6.56E-03	8.36E-03
RESI	Base	Beryllium	Child	RfD	2.69E-07	3.09E-06	9.35E-06	1.27E-05	1.34E-04	1.55E-03	4.67E-03	6.35E-03
RESI	Base	Chromium	Child	RfD	4.72E-05	3.75E-05	3.36E-04	4.21E-04	3.15E-05	2.50E-05	2.24E-04	2.81E-04
RESI	Base	Cobalt	Child	RfD	6.09E-06	4.25E-06	7.95E-05	8.99E-05	2.03E-02	1.42E-02	2.65E-01	3.00E-01
RESI	Base	Iron	Child	RfD	4.75E-02	1.09E-03	1.65E-01	2.14E-01	6.78E-02	1.56E-03	2.36E-01	3.05E-01
RESI	Base	Lead	Child	RfD	3.40E-06	5.63E-06	9.80E-05	1.07E-04	6.81E-03	1.13E-02	1.96E-01	2.14E-01
RESI	Base	Manganese	Child	RfD	9.44E-04	3.01E-04	9.51E-02	9.64E-02	1.97E-02	1.20E-02	6.79E-01	7.11E-01
RESI	Base	Mercury	Child	RfD	1.89E-07	1.00E-06	6.46E-04	6.47E-04	9.46E-04	5.02E-03	3.23E+00	3.24E+00
RESI	Base	Molybdenum	Child	RfD	6.97E-07	1.07E-05	1.55E-04	1.66E-04	1.39E-04	2.15E-03	3.10E-02	3.33E-02
RESI	Base	Selenium	Child	RfD	3.20E-07	1.30E-05	7.46E-04	7.59E-04	5.82E-05	2.36E-03	1.36E-01	1.38E-01
RESI	Project	Arsenic	Child	RfD	1.13E-06	1.26E-05	1.14E-05	2.51E-05	1.88E-02	2.10E-01	1.90E-01	4.18E-01
RESI	Project	Barium	Child	RfD	7.68E-05	3.70E-04	1.42E-03	1.87E-03	3.84E-04	1.85E-03	7.12E-03	9.36E-03
RESI	Project	Beryllium	Child	RfD	2.82E-07	3.81E-06	1.13E-05	1.54E-05	1.41E-04	1.91E-03	5.67E-03	7.72E-03
RESI	Project	Chromium	Child	RfD	4.82E-05	3.76E-05	3.80E-04	4.66E-04	3.21E-05	2.51E-05	2.53E-04	3.11E-04
RESI	Project	Cobalt	Child	RfD	6.20E-06	4.43E-05	1.43E-04	1.94E-04	2.07E-02	1.48E-01	4.77E-01	6.46E-01
RESI	Project	Iron	Child	RfD	4.87E-02	5.16E-03	2.53E-01	3.07E-01	6.96E-02	7.37E-03	3.61E-01	4.38E-01
RESI	Project	Lead	Child	RfD	3.48E-06	4.98E-06	7.58E-05	8.42E-05	6.95E-03	9.95E-03	1.52E-01	1.68E-01
RESI	Project	Manganese	Child	RfD	9.72E-04	2.69E-03	9.92E-02	1.03E-01	2.03E-02	1.08E-01	7.09E-01	8.37E-01
RESI	Project	Mercury	Child	RfD	1.90E-07	9.48E-07	6.13E-04	6.14E-04	9.52E-04	4.74E-03	3.07E+00	3.07E+00
RESI	Project	Molybdenum	Child	RfD	8.22E-07	6.74E-05	5.09E-04	5.77E-04	1.64E-04	1.35E-02	1.02E-01	1.15E-01
RESI	Project	Selenium	Child	RfD	3.28E-07	2.68E-05	1.64E-03	1.67E-03	5.97E-05	4.87E-03	2.98E-01	3.03E-01
RESI	Closure	Arsenic	Child	RfD	1.13E-06	9.80E-06	1.01E-05	2.10E-05	1.88E-02	1.63E-01	1.68E-01	3.50E-01
RESI	Closure	Barium	Child	RfD	7.68E-05	3.67E-04	1.42E-03	1.87E-03	3.84E-04	1.84E-03	7.11E-03	9.33E-03
RESI	Closure	Beryllium	Child	RfD	2.82E-07	3.29E-06	1.02E-05	1.37E-05	1.41E-04	1.64E-03	5.08E-03	6.86E-03
RESI	Closure	Chromium	Child	RfD	4.82E-05	3.48E-05	3.73E-04	4.56E-04	3.21E-05	2.32E-05	2.49E-04	3.04E-04

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Closure	Cobalt	Child	RfD	6.20E-06	2.83E-05	1.22E-04	1.57E-04	2.07E-02	9.44E-02	4.07E-01	5.22E-01
RESI	Closure	Iron	Child	RfD	4.87E-02	4.22E-03	2.42E-01	2.95E-01	6.96E-02	6.03E-03	3.45E-01	4.21E-01
RESI	Closure	Lead	Child	RfD	3.48E-06	4.68E-06	7.52E-05	8.34E-05	6.95E-03	9.36E-03	1.50E-01	1.67E-01
RESI	Closure	Manganese	Child	RfD	9.72E-04	1.97E-03	9.81E-02	1.01E-01	2.03E-02	7.87E-02	7.01E-01	8.00E-01
RESI	Closure	Mercury	Child	RfD	1.90E-07	9.50E-07	6.14E-04	6.15E-04	9.52E-04	4.75E-03	3.07E+00	3.08E+00
RESI	Closure	Molybdenum	Child	RfD	8.22E-07	4.92E-05	4.02E-04	4.52E-04	1.64E-04	9.84E-03	8.04E-02	9.04E-02
RESI	Closure	Selenium	Child	RfD	3.28E-07	2.01E-05	1.30E-03	1.32E-03	5.97E-05	3.65E-03	2.36E-01	2.40E-01
RESI	Post Closure	Arsenic	Child	RfD	1.13E-06	5.57E-06	9.17E-06	1.59E-05	1.88E-02	9.28E-02	1.53E-01	2.64E-01
RESI	Post Closure	Barium	Child	RfD	7.68E-05	3.62E-04	1.42E-03	1.85E-03	3.84E-04	1.81E-03	7.08E-03	9.27E-03
RESI	Post Closure	Beryllium	Child	RfD	2.82E-07	2.41E-06	8.16E-06	1.09E-05	1.41E-04	1.21E-03	4.08E-03	5.43E-03
RESI	Post Closure	Chromium	Child	RfD	4.82E-05	2.96E-05	3.65E-04	4.43E-04	3.21E-05	1.98E-05	2.43E-04	2.95E-04
RESI	Post Closure	Cobalt	Child	RfD	6.20E-06	3.62E-06	9.10E-05	1.01E-04	2.07E-02	1.21E-02	3.03E-01	3.36E-01
RESI	Post Closure	Iron	Child	RfD	4.87E-02	3.22E-03	2.38E-01	2.90E-01	6.96E-02	4.60E-03	3.39E-01	4.14E-01
RESI	Post Closure	Lead	Child	RfD	3.48E-06	3.78E-06	7.44E-05	8.17E-05	6.95E-03	7.55E-03	1.49E-01	1.63E-01
RESI	Post Closure	Manganese	Child	RfD	9.72E-04	1.79E-03	9.78E-02	1.01E-01	2.03E-02	7.14E-02	6.99E-01	7.90E-01
RESI	Post Closure	Mercury	Child	RfD	1.90E-07	9.14E-07	5.93E-04	5.94E-04	9.52E-04	4.57E-03	2.96E+00	2.97E+00
RESI	Post Closure	Molybdenum	Child	RfD	8.22E-07	3.32E-05	3.63E-04	3.97E-04	1.64E-04	6.65E-03	7.26E-02	7.94E-02
RESI	Post Closure	Selenium	Child	RfD	3.28E-07	9.91E-06	2.40E-03	2.41E-03	5.97E-05	1.80E-03	4.36E-01	4.38E-01
RESI	Base	Arsenic	Adolescent	RfD	6.42E-07	4.67E-06	5.72E-06	1.10E-05	1.07E-02	7.78E-02	9.53E-02	1.84E-01
RESI	Base	Barium	Adolescent	RfD	4.67E-05	1.91E-04	9.22E-04	1.16E-03	2.34E-04	9.55E-04	4.61E-03	5.80E-03
RESI	Base	Beryllium	Adolescent	RfD	1.71E-07	2.06E-06	6.73E-06	8.96E-06	8.55E-05	1.03E-03	3.36E-03	4.48E-03
RESI	Base	Chromium	Adolescent	RfD	3.01E-05	2.50E-05	2.72E-04	3.27E-04	2.00E-05	1.67E-05	1.81E-04	2.18E-04
RESI	Base	Cobalt	Adolescent	RfD	3.88E-06	2.82E-06	5.98E-05	6.65E-05	1.29E-02	9.39E-03	1.99E-01	2.22E-01
RESI	Base	Iron	Adolescent	RfD	3.02E-02	7.26E-04	1.29E-01	1.60E-01	4.32E-02	1.04E-03	1.84E-01	2.28E-01
RESI	Base	Lead	Adolescent	RfD	1.90E-06	3.72E-06	7.92E-05	8.48E-05	3.80E-03	7.45E-03	1.58E-01	1.70E-01
RESI	Base	Manganese	Adolescent	RfD	6.02E-04	2.00E-04	6.48E-02	6.56E-02	1.25E-02	8.01E-03	4.63E-01	4.83E-01
RESI	Base	Mercury	Adolescent	RfD	1.44E-07	6.69E-07	4.34E-04	4.35E-04	7.20E-04	3.34E-03	2.17E+00	2.17E+00
RESI	Base	Molybdenum	Adolescent	RfD	4.44E-07	7.15E-06	1.10E-04	1.18E-04	8.88E-05	1.43E-03	2.21E-02	2.36E-02
RESI	Base	Selenium	Adolescent	RfD	1.80E-07	8.65E-06	5.78E-04	5.87E-04	3.28E-05	1.57E-03	1.05E-01	1.07E-01
RESI	Project	Arsenic	Adolescent	RfD	6.60E-07	8.37E-06	7.94E-06	1.70E-05	1.10E-02	1.40E-01	1.32E-01	2.83E-01
RESI	Project	Barium	Adolescent	RfD	4.89E-05	2.46E-04	9.98E-04	1.29E-03	2.45E-04	1.23E-03	4.99E-03	6.47E-03
RESI	Project	Beryllium	Adolescent	RfD	1.80E-07	2.54E-06	8.14E-06	1.09E-05	8.99E-05	1.27E-03	4.07E-03	5.43E-03
RESI	Project	Chromium	Adolescent	RfD	3.07E-05	2.50E-05	3.11E-04	3.67E-04	2.05E-05	1.67E-05	2.07E-04	2.45E-04
RESI	Project	Cobalt	Adolescent	RfD	3.95E-06	2.94E-05	1.04E-04	1.38E-04	1.32E-02	9.79E-02	3.48E-01	4.59E-01
RESI	Project	Iron	Adolescent	RfD	3.10E-02	3.44E-03	1.97E-01	2.31E-01	4.44E-02	4.91E-03	2.81E-01	3.30E-01
RESI	Project	Lead	Adolescent	RfD	1.94E-06	3.29E-06	6.25E-05	6.77E-05	3.88E-03	6.59E-03	1.25E-01	1.35E-01
RESI	Project	Manganese	Adolescent	RfD	6.19E-04	1.79E-03	6.76E-02	7.01E-02	1.29E-02	7.17E-02	4.83E-01	5.68E-01
RESI	Project	Mercury	Adolescent	RfD	1.45E-07	6.31E-07	4.12E-04	4.13E-04	7.25E-04	3.15E-03	2.06E+00	2.06E+00

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Project	Molybdenum	Adolescent	RfD	5.24E-07	4.49E-05	3.60E-04	4.06E-04	1.05E-04	8.97E-03	7.21E-02	8.12E-02
RESI	Project	Selenium	Adolescent	RfD	1.85E-07	1.78E-05	1.24E-03	1.26E-03	3.36E-05	3.24E-03	2.25E-01	2.28E-01
RESI	Closure	Arsenic	Adolescent	RfD	6.60E-07	6.52E-06	7.08E-06	1.43E-05	1.10E-02	1.09E-01	1.18E-01	2.38E-01
RESI	Closure	Barium	Adolescent	RfD	4.89E-05	2.44E-04	9.97E-04	1.29E-03	2.45E-04	1.22E-03	4.98E-03	6.45E-03
RESI	Closure	Beryllium	Adolescent	RfD	1.80E-07	2.19E-06	7.34E-06	9.71E-06	8.99E-05	1.09E-03	3.67E-03	4.85E-03
RESI	Closure	Chromium	Adolescent	RfD	3.07E-05	2.31E-05	3.06E-04	3.60E-04	2.05E-05	1.54E-05	2.04E-04	2.40E-04
RESI	Closure	Cobalt	Adolescent	RfD	3.95E-06	1.88E-05	9.03E-05	1.13E-04	1.32E-02	6.26E-02	3.01E-01	3.77E-01
RESI	Closure	Iron	Adolescent	RfD	3.10E-02	2.81E-03	1.89E-01	2.23E-01	4.44E-02	4.01E-03	2.70E-01	3.18E-01
RESI	Closure	Lead	Adolescent	RfD	1.94E-06	3.10E-06	6.21E-05	6.71E-05	3.88E-03	6.20E-03	1.24E-01	1.34E-01
RESI	Closure	Manganese	Adolescent	RfD	6.19E-04	1.31E-03	6.69E-02	6.88E-02	1.29E-02	5.24E-02	4.78E-01	5.43E-01
RESI	Closure	Mercury	Adolescent	RfD	1.45E-07	6.32E-07	4.13E-04	4.14E-04	7.25E-04	3.16E-03	2.06E+00	2.07E+00
RESI	Closure	Molybdenum	Adolescent	RfD	5.24E-07	3.27E-05	2.87E-04	3.20E-04	1.05E-04	6.55E-03	5.74E-02	6.40E-02
RESI	Closure	Selenium	Adolescent	RfD	1.85E-07	1.34E-05	9.89E-04	1.00E-03	3.36E-05	2.43E-03	1.80E-01	1.82E-01
RESI	Post Closure	Arsenic	Adolescent	RfD	6.60E-07	3.70E-06	6.47E-06	1.08E-05	1.10E-02	6.17E-02	1.08E-01	1.81E-01
RESI	Post Closure	Barium	Adolescent	RfD	4.89E-05	2.41E-04	9.93E-04	1.28E-03	2.45E-04	1.20E-03	4.96E-03	6.41E-03
RESI	Post Closure	Beryllium	Adolescent	RfD	1.80E-07	1.61E-06	6.02E-06	7.80E-06	8.99E-05	8.03E-04	3.01E-03	3.90E-03
RESI	Post Closure	Chromium	Adolescent	RfD	3.07E-05	1.97E-05	2.99E-04	3.50E-04	2.05E-05	1.31E-05	2.00E-04	2.33E-04
RESI	Post Closure	Cobalt	Adolescent	RfD	3.95E-06	2.40E-06	6.95E-05	7.59E-05	1.32E-02	8.00E-03	2.32E-01	2.53E-01
RESI	Post Closure	Iron	Adolescent	RfD	3.10E-02	2.14E-03	1.86E-01	2.20E-01	4.44E-02	3.06E-03	2.66E-01	3.14E-01
RESI	Post Closure	Lead	Adolescent	RfD	1.94E-06	2.50E-06	6.14E-05	6.58E-05	3.88E-03	5.00E-03	1.23E-01	1.32E-01
RESI	Post Closure	Manganese	Adolescent	RfD	6.19E-04	1.19E-03	6.67E-02	6.85E-02	1.29E-02	4.75E-02	4.77E-01	5.37E-01
RESI	Post Closure	Mercury	Adolescent	RfD	1.45E-07	6.08E-07	3.99E-04	3.99E-04	7.25E-04	3.04E-03	1.99E+00	2.00E+00
RESI	Post Closure	Molybdenum	Adolescent	RfD	5.24E-07	2.21E-05	2.65E-04	2.88E-04	1.05E-04	4.42E-03	5.31E-02	5.76E-02
RESI	Post Closure	Selenium	Adolescent	RfD	1.85E-07	6.59E-06	1.80E-03	1.81E-03	3.36E-05	1.20E-03	3.27E-01	3.29E-01
RESI	Base	Arsenic	Adult	RfD	5.55E-07	5.72E-06	4.78E-06	1.11E-05	9.25E-03	9.53E-02	7.97E-02	1.84E-01
RESI	Base	Barium	Adult	RfD	4.16E-05	2.34E-04	7.77E-04	1.05E-03	2.08E-04	1.17E-03	3.88E-03	5.26E-03
RESI	Base	Beryllium	Adult	RfD	1.52E-07	2.52E-06	5.70E-06	8.37E-06	7.62E-05	1.26E-03	2.85E-03	4.19E-03
RESI	Base	Chromium	Adult	RfD	2.68E-05	3.06E-05	2.34E-04	2.92E-04	1.78E-05	2.04E-05	1.56E-04	1.95E-04
RESI	Base	Cobalt	Adult	RfD	3.45E-06	3.46E-06	5.21E-05	5.90E-05	1.15E-02	1.15E-02	1.74E-01	1.97E-01
RESI	Base	Iron	Adult	RfD	2.69E-02	8.89E-04	1.14E-01	1.41E-01	3.85E-02	1.27E-03	1.62E-01	2.02E-01
RESI	Base	Lead	Adult	RfD	1.61E-06	4.59E-06	6.82E-05	7.44E-05	3.23E-03	9.18E-03	1.36E-01	1.49E-01
RESI	Base	Manganese	Adult	RfD	5.36E-04	2.45E-04	5.73E-02	5.80E-02	1.12E-02	9.81E-03	4.09E-01	4.30E-01
RESI	Base	Mercury	Adult	RfD	1.35E-07	8.19E-07	3.68E-04	3.69E-04	6.76E-04	4.10E-03	1.84E+00	1.85E+00
RESI	Base	Molybdenum	Adult	RfD	3.95E-07	8.76E-06	9.62E-05	1.05E-04	7.91E-05	1.75E-03	1.92E-02	2.11E-02
RESI	Base	Selenium	Adult	RfD	1.54E-07	1.06E-05	5.11E-04	5.22E-04	2.79E-05	1.93E-03	9.30E-02	9.49E-02
RESI	Project	Arsenic	Adult	RfD	5.71E-07	1.03E-05	6.70E-06	1.75E-05	9.51E-03	1.71E-01	1.12E-01	2.92E-01
RESI	Project	Barium	Adult	RfD	4.36E-05	3.01E-04	8.42E-04	1.19E-03	2.18E-04	1.51E-03	4.21E-03	5.94E-03
RESI	Project	Beryllium	Adult	RfD	1.60E-07	3.11E-06	6.90E-06	1.02E-05	8.00E-05	1.55E-03	3.45E-03	5.08E-03

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Project	Chromium	Adult	RfD	2.73E-05	3.07E-05	2.70E-04	3.28E-04	1.82E-05	2.04E-05	1.80E-04	2.18E-04
RESI	Project	Cobalt	Adult	RfD	3.52E-06	3.61E-05	9.03E-05	1.30E-04	1.17E-02	1.20E-01	3.01E-01	4.33E-01
RESI	Project	Iron	Adult	RfD	2.76E-02	4.21E-03	1.73E-01	2.05E-01	3.95E-02	6.01E-03	2.48E-01	2.93E-01
RESI	Project	Lead	Adult	RfD	1.65E-06	4.06E-06	5.40E-05	5.97E-05	3.30E-03	8.11E-03	1.08E-01	1.19E-01
RESI	Project	Manganese	Adult	RfD	5.52E-04	2.20E-03	5.98E-02	6.25E-02	1.15E-02	8.78E-02	4.27E-01	5.26E-01
RESI	Project	Mercury	Adult	RfD	1.36E-07	7.73E-07	3.50E-04	3.51E-04	6.80E-04	3.86E-03	1.75E+00	1.75E+00
RESI	Project	Molybdenum	Adult	RfD	4.66E-07	5.50E-05	3.11E-04	3.67E-04	9.33E-05	1.10E-02	6.23E-02	7.34E-02
RESI	Project	Selenium	Adult	RfD	1.58E-07	2.18E-05	1.09E-03	1.11E-03	2.87E-05	3.97E-03	1.98E-01	2.02E-01
RESI	Closure	Arsenic	Adult	RfD	5.71E-07	7.99E-06	5.97E-06	1.45E-05	9.51E-03	1.33E-01	9.94E-02	2.42E-01
RESI	Closure	Barium	Adult	RfD	4.36E-05	2.99E-04	8.41E-04	1.18E-03	2.18E-04	1.50E-03	4.21E-03	5.92E-03
RESI	Closure	Beryllium	Adult	RfD	1.60E-07	2.68E-06	6.22E-06	9.07E-06	8.00E-05	1.34E-03	3.11E-03	4.53E-03
RESI	Closure	Chromium	Adult	RfD	2.73E-05	2.84E-05	2.65E-04	3.21E-04	1.82E-05	1.89E-05	1.77E-04	2.14E-04
RESI	Closure	Cobalt	Adult	RfD	3.52E-06	2.31E-05	7.83E-05	1.05E-04	1.17E-02	7.70E-02	2.61E-01	3.50E-01
RESI	Closure	Iron	Adult	RfD	2.76E-02	3.44E-03	1.67E-01	1.98E-01	3.95E-02	4.91E-03	2.38E-01	2.82E-01
RESI	Closure	Lead	Adult	RfD	1.65E-06	3.82E-06	5.36E-05	5.91E-05	3.30E-03	7.63E-03	1.07E-01	1.18E-01
RESI	Closure	Manganese	Adult	RfD	5.52E-04	1.60E-03	5.91E-02	6.13E-02	1.15E-02	6.42E-02	4.22E-01	4.98E-01
RESI	Closure	Mercury	Adult	RfD	1.36E-07	7.74E-07	3.51E-04	3.51E-04	6.80E-04	3.87E-03	1.75E+00	1.76E+00
RESI	Closure	Molybdenum	Adult	RfD	4.66E-07	4.01E-05	2.49E-04	2.90E-04	9.33E-05	8.02E-03	4.98E-02	5.79E-02
RESI	Closure	Selenium	Adult	RfD	1.58E-07	1.64E-05	8.72E-04	8.88E-04	2.87E-05	2.98E-03	1.59E-01	1.62E-01
RESI	Post Closure	Arsenic	Adult	RfD	5.71E-07	4.54E-06	5.47E-06	1.06E-05	9.51E-03	7.56E-02	9.11E-02	1.76E-01
RESI	Post Closure	Barium	Adult	RfD	4.36E-05	2.95E-04	8.38E-04	1.18E-03	2.18E-04	1.47E-03	4.19E-03	5.88E-03
RESI	Post Closure	Beryllium	Adult	RfD	1.60E-07	1.97E-06	5.11E-06	7.24E-06	8.00E-05	9.84E-04	2.55E-03	3.62E-03
RESI	Post Closure	Chromium	Adult	RfD	2.73E-05	2.42E-05	2.60E-04	3.11E-04	1.82E-05	1.61E-05	1.73E-04	2.07E-04
RESI	Post Closure	Cobalt	Adult	RfD	3.52E-06	2.95E-06	6.07E-05	6.72E-05	1.17E-02	9.83E-03	2.02E-01	2.24E-01
RESI	Post Closure	Iron	Adult	RfD	2.76E-02	2.62E-03	1.65E-01	1.95E-01	3.95E-02	3.75E-03	2.35E-01	2.78E-01
RESI	Post Closure	Lead	Adult	RfD	1.65E-06	3.08E-06	5.30E-05	5.77E-05	3.30E-03	6.16E-03	1.06E-01	1.15E-01
RESI	Post Closure	Manganese	Adult	RfD	5.52E-04	1.46E-03	5.90E-02	6.10E-02	1.15E-02	5.82E-02	4.21E-01	4.91E-01
RESI	Post Closure	Mercury	Adult	RfD	1.36E-07	7.45E-07	3.39E-04	3.40E-04	6.80E-04	3.72E-03	1.69E+00	1.70E+00
RESI	Post Closure	Molybdenum	Adult	RfD	4.66E-07	2.71E-05	2.31E-04	2.59E-04	9.33E-05	5.42E-03	4.63E-02	5.18E-02
RESI	Post Closure	Selenium	Adult	RfD	1.58E-07	8.08E-06	1.58E-03	1.59E-03	2.87E-05	1.47E-03	2.87E-01	2.89E-01
RESI	Project-Base	Arsenic	Infant	RfD	1.15E-07	7.38E-06	0.00E+00	7.49E-06	1.92E-03	1.23E-01	0.00E+00	1.25E-01
RESI	Project-Base	Barium	Infant	RfD	1.14E-05	1.09E-04	0.00E+00	1.21E-04	5.69E-05	5.47E-04	0.00E+00	6.04E-04
RESI	Project-Base	Beryllium	Infant	RfD	4.46E-08	9.53E-07	0.00E+00	9.97E-07	2.23E-05	4.76E-04	0.00E+00	4.99E-04
RESI	Project-Base	Chromium	Infant	RfD	3.24E-06	9.20E-08	0.00E+00	3.34E-06	2.16E-06	6.13E-08	0.00E+00	2.22E-06
RESI	Project-Base	Cobalt	Infant	RfD	3.84E-07	5.38E-05	0.00E+00	5.41E-05	1.28E-03	1.79E-01	0.00E+00	1.80E-01
RESI	Project-Base	Iron	Infant	RfD	4.18E-03	5.39E-03	0.00E+00	9.57E-03	5.97E-03	7.71E-03	0.00E+00	1.37E-02
RESI	Project-Base	Lead	Infant	RfD	2.83E-07	0.00E+00	0.00E+00	2.83E-07	5.66E-04	0.00E+00	0.00E+00	5.66E-04
RESI	Project-Base	Manganese	Infant	RfD	9.19E-05	3.17E-03	0.00E+00	3.26E-03	1.92E-03	1.27E-01	0.00E+00	1.29E-01

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Project-Base	Mercury	Infant	RfD	2.54E-09	0.00E+00	0.00E+00	2.54E-09	1.27E-05	0.00E+00	0.00E+00	1.27E-05
RESI	Project-Base	Molybdenum	Infant	RfD	4.10E-07	7.51E-05	0.00E+00	7.55E-05	8.19E-05	1.50E-02	0.00E+00	1.51E-02
RESI	Project-Base	Selenium	Infant	RfD	3.27E-08	1.82E-05	0.00E+00	1.83E-05	5.95E-06	3.31E-03	0.00E+00	3.32E-03
RESI	Closure-Base	Arsenic	Infant	RfD	1.15E-07	3.69E-06	0.00E+00	3.81E-06	1.92E-03	6.16E-02	0.00E+00	6.35E-02
RESI	Closure-Base	Barium	Infant	RfD	1.14E-05	1.06E-04	0.00E+00	1.18E-04	5.69E-05	5.32E-04	0.00E+00	5.88E-04
RESI	Closure-Base	Beryllium	Infant	RfD	4.46E-08	2.62E-07	0.00E+00	3.07E-07	2.23E-05	1.31E-04	0.00E+00	1.53E-04
RESI	Closure-Base	Chromium	Infant	RfD	3.24E-06	0.00E+00	0.00E+00	3.24E-06	2.16E-06	0.00E+00	0.00E+00	2.16E-06
RESI	Closure-Base	Cobalt	Infant	RfD	3.84E-07	3.23E-05	0.00E+00	3.27E-05	1.28E-03	1.08E-01	0.00E+00	1.09E-01
RESI	Closure-Base	Iron	Infant	RfD	4.18E-03	4.14E-03	0.00E+00	8.32E-03	5.97E-03	5.92E-03	0.00E+00	1.19E-02
RESI	Closure-Base	Lead	Infant	RfD	2.83E-07	0.00E+00	0.00E+00	2.83E-07	5.66E-04	0.00E+00	0.00E+00	5.66E-04
RESI	Closure-Base	Manganese	Infant	RfD	9.19E-05	2.21E-03	0.00E+00	2.30E-03	1.92E-03	8.84E-02	0.00E+00	9.03E-02
RESI	Closure-Base	Mercury	Infant	RfD	2.54E-09	0.00E+00	0.00E+00	2.54E-09	1.27E-05	0.00E+00	0.00E+00	1.27E-05
RESI	Closure-Base	Molybdenum	Infant	RfD	4.10E-07	5.10E-05	0.00E+00	5.14E-05	8.19E-05	1.02E-02	0.00E+00	1.03E-02
RESI	Closure-Base	Selenium	Infant	RfD	3.27E-08	9.41E-06	0.00E+00	9.44E-06	5.95E-06	1.71E-03	0.00E+00	1.72E-03
RESI	Post Closure-Base	Arsenic	Infant	RfD	1.15E-07	0.00E+00	0.00E+00	1.15E-07	1.92E-03	0.00E+00	0.00E+00	1.92E-03
RESI	Post Closure-Base	Barium	Infant	RfD	1.14E-05	9.88E-05	0.00E+00	1.10E-04	5.69E-05	4.94E-04	0.00E+00	5.51E-04
RESI	Post Closure-Base	Beryllium	Infant	RfD	4.46E-08	0.00E+00	0.00E+00	4.46E-08	2.23E-05	0.00E+00	0.00E+00	2.23E-05
RESI	Post Closure-Base	Chromium	Infant	RfD	3.24E-06	0.00E+00	0.00E+00	3.24E-06	2.16E-06	0.00E+00	0.00E+00	2.16E-06
RESI	Post Closure-Base	Cobalt	Infant	RfD	3.84E-07	0.00E+00	0.00E+00	3.84E-07	1.28E-03	0.00E+00	0.00E+00	1.28E-03
RESI	Post Closure-Base	Iron	Infant	RfD	4.18E-03	2.82E-03	0.00E+00	7.00E-03	5.97E-03	4.03E-03	0.00E+00	1.00E-02
RESI	Post Closure-Base	Lead	Infant	RfD	2.83E-07	0.00E+00	0.00E+00	2.83E-07	5.66E-04	0.00E+00	0.00E+00	5.66E-04
RESI	Post Closure-Base	Manganese	Infant	RfD	9.19E-05	1.97E-03	0.00E+00	2.06E-03	1.92E-03	7.87E-02	0.00E+00	8.06E-02
RESI	Post Closure-Base	Mercury	Infant	RfD	2.54E-09	0.00E+00	0.00E+00	2.54E-09	1.27E-05	0.00E+00	0.00E+00	1.27E-05
RESI	Post Closure-Base	Molybdenum	Infant	RfD	4.10E-07	2.98E-05	0.00E+00	3.02E-05	8.19E-05	5.96E-03	0.00E+00	6.05E-03
RESI	Post Closure-Base	Selenium	Infant	RfD	3.27E-08	0.00E+00	0.00E+00	3.27E-08	5.95E-06	0.00E+00	0.00E+00	5.95E-06
RESI	Project-Base	Arsenic	Toddler	RfD	2.19E-07	8.56E-06	4.23E-06	1.30E-05	3.64E-03	1.43E-01	7.05E-02	2.17E-01
RESI	Project-Base	Barium	Toddler	RfD	1.97E-05	1.27E-04	1.41E-04	2.88E-04	9.85E-05	6.34E-04	7.06E-04	1.44E-03
RESI	Project-Base	Beryllium	Toddler	RfD	7.74E-08	1.11E-06	2.82E-06	4.00E-06	3.87E-05	5.53E-04	1.41E-03	2.00E-03
RESI	Project-Base	Chromium	Toddler	RfD	5.62E-06	1.07E-07	6.94E-05	7.52E-05	3.75E-06	7.12E-08	4.63E-05	5.01E-05
RESI	Project-Base	Cobalt	Toddler	RfD	6.65E-07	6.17E-05	8.08E-05	1.43E-04	2.22E-03	2.06E-01	2.69E-01	4.77E-01
RESI	Project-Base	Iron	Toddler	RfD	7.24E-03	6.26E-03	1.33E-01	1.47E-01	1.03E-02	8.94E-03	1.90E-01	2.10E-01
RESI	Project-Base	Lead	Toddler	RfD	5.57E-07	0.00E+00	1.20E-05	1.26E-05	1.11E-03	0.00E+00	2.40E-02	2.51E-02
RESI	Project-Base	Manganese	Toddler	RfD	1.59E-04	3.68E-03	5.89E-03	9.73E-03	3.32E-03	1.47E-01	4.21E-02	1.93E-01
RESI	Project-Base	Mercury	Toddler	RfD	2.72E-09	0.00E+00	6.70E-07	6.73E-07	1.36E-05	0.00E+00	3.35E-03	3.37E-03
RESI	Project-Base	Molybdenum	Toddler	RfD	7.10E-07	8.71E-05	4.61E-04	5.49E-04	1.42E-04	1.74E-02	9.23E-02	1.10E-01
RESI	Project-Base	Selenium	Toddler	RfD	6.40E-08	2.11E-05	1.12E-03	1.14E-03	1.16E-05	3.85E-03	2.03E-01	2.07E-01
RESI	Closure-Base	Arsenic	Toddler	RfD	2.19E-07	4.28E-06	2.81E-06	7.31E-06	3.64E-03	7.14E-02	4.68E-02	1.22E-01
RESI	Closure-Base	Barium	Toddler	RfD	1.97E-05	1.23E-04	1.37E-04	2.80E-04	9.85E-05	6.17E-04	6.86E-04	1.40E-03

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Closure-Base	Beryllium	Toddler	RfD	7.74E-08	3.04E-07	1.39E-06	1.77E-06	3.87E-05	1.52E-04	6.95E-04	8.86E-04
RESI	Closure-Base	Chromium	Toddler	RfD	5.62E-06	0.00E+00	6.75E-05	7.31E-05	3.75E-06	0.00E+00	4.50E-05	4.87E-05
RESI	Closure-Base	Cobalt	Toddler	RfD	6.65E-07	3.71E-05	5.47E-05	9.25E-05	2.22E-03	1.24E-01	1.82E-01	3.08E-01
RESI	Closure-Base	Iron	Toddler	RfD	7.24E-03	4.81E-03	1.04E-01	1.16E-01	1.03E-02	6.87E-03	1.48E-01	1.65E-01
RESI	Closure-Base	Lead	Toddler	RfD	5.57E-07	0.00E+00	1.20E-05	1.26E-05	1.11E-03	0.00E+00	2.40E-02	2.51E-02
RESI	Closure-Base	Manganese	Toddler	RfD	1.59E-04	2.56E-03	4.39E-03	7.11E-03	3.32E-03	1.03E-01	3.13E-02	1.37E-01
RESI	Closure-Base	Mercury	Toddler	RfD	2.72E-09	0.00E+00	6.70E-07	6.73E-07	1.36E-05	0.00E+00	3.35E-03	3.37E-03
RESI	Closure-Base	Molybdenum	Toddler	RfD	7.10E-07	5.91E-05	3.09E-04	3.69E-04	1.42E-04	1.18E-02	6.18E-02	7.37E-02
RESI	Closure-Base	Selenium	Toddler	RfD	6.40E-08	1.09E-05	8.27E-04	8.37E-04	1.16E-05	1.98E-03	1.50E-01	1.52E-01
RESI	Post Closure-Base	Arsenic	Toddler	RfD	2.19E-07	0.00E+00	2.52E-06	2.74E-06	3.64E-03	0.00E+00	4.20E-02	4.56E-02
RESI	Post Closure-Base	Barium	Toddler	RfD	1.97E-05	1.15E-04	1.31E-04	2.65E-04	9.85E-05	5.73E-04	6.55E-04	1.33E-03
RESI	Post Closure-Base	Beryllium	Toddler	RfD	7.74E-08	0.00E+00	8.44E-07	9.21E-07	3.87E-05	0.00E+00	4.22E-04	4.61E-04
RESI	Post Closure-Base	Chromium	Toddler	RfD	5.62E-06	0.00E+00	6.05E-05	6.61E-05	3.75E-06	0.00E+00	4.03E-05	4.41E-05
RESI	Post Closure-Base	Cobalt	Toddler	RfD	6.65E-07	0.00E+00	1.77E-05	1.83E-05	2.22E-03	0.00E+00	5.89E-02	6.12E-02
RESI	Post Closure-Base	Iron	Toddler	RfD	7.24E-03	3.27E-03	1.03E-01	1.13E-01	1.03E-02	4.67E-03	1.46E-01	1.61E-01
RESI	Post Closure-Base	Lead	Toddler	RfD	5.57E-07	0.00E+00	1.20E-05	1.26E-05	1.11E-03	0.00E+00	2.40E-02	2.51E-02
RESI	Post Closure-Base	Manganese	Toddler	RfD	1.59E-04	2.28E-03	4.18E-03	6.63E-03	3.32E-03	9.13E-02	2.99E-02	1.24E-01
RESI	Post Closure-Base	Mercury	Toddler	RfD	2.72E-09	0.00E+00	6.70E-07	6.73E-07	1.36E-05	0.00E+00	3.35E-03	3.37E-03
RESI	Post Closure-Base	Molybdenum	Toddler	RfD	7.10E-07	3.46E-05	2.84E-04	3.19E-04	1.42E-04	6.92E-03	5.68E-02	6.39E-02
RESI	Post Closure-Base	Selenium	Toddler	RfD	6.40E-08	0.00E+00	2.56E-03	2.56E-03	1.16E-05	0.00E+00	4.66E-01	4.66E-01
RESI	Project-Base	Arsenic	Child	RfD	3.09E-08	5.57E-06	3.20E-06	8.80E-06	5.15E-04	9.28E-02	5.33E-02	1.47E-01
RESI	Project-Base	Barium	Child	RfD	3.47E-06	8.25E-05	1.14E-04	2.00E-04	1.73E-05	4.13E-04	5.71E-04	1.00E-03
RESI	Project-Base	Beryllium	Child	RfD	1.36E-08	7.19E-07	2.22E-06	2.95E-06	6.80E-06	3.59E-04	1.11E-03	1.48E-03
RESI	Project-Base	Chromium	Child	RfD	9.89E-07	6.94E-08	5.01E-05	5.12E-05	6.59E-07	4.63E-08	3.34E-05	3.41E-05
RESI	Project-Base	Cobalt	Child	RfD	1.17E-07	4.00E-05	6.36E-05	1.04E-04	3.90E-04	1.33E-01	2.12E-01	3.46E-01
RESI	Project-Base	Iron	Child	RfD	1.27E-03	4.07E-03	9.73E-02	1.03E-01	1.82E-03	5.82E-03	1.39E-01	1.47E-01
RESI	Project-Base	Lead	Child	RfD	7.17E-08	0.00E+00	8.88E-06	8.96E-06	1.43E-04	0.00E+00	1.78E-02	1.79E-02
RESI	Project-Base	Manganese	Child	RfD	2.80E-05	2.39E-03	4.86E-03	7.28E-03	5.84E-04	9.57E-02	3.47E-02	1.31E-01
RESI	Project-Base	Mercury	Child	RfD	1.14E-09	0.00E+00	5.02E-07	5.03E-07	5.70E-06	0.00E+00	2.51E-03	2.51E-03
RESI	Project-Base	Molybdenum	Child	RfD	1.25E-07	5.67E-05	3.65E-04	4.22E-04	2.50E-05	1.13E-02	7.30E-02	8.44E-02
RESI	Project-Base	Selenium	Child	RfD	8.38E-09	1.38E-05	7.41E-04	7.55E-04	1.52E-06	2.50E-03	1.35E-01	1.37E-01
RESI	Closure-Base	Arsenic	Child	RfD	3.09E-08	2.79E-06	2.06E-06	4.88E-06	5.15E-04	4.65E-02	3.44E-02	8.13E-02
RESI	Closure-Base	Barium	Child	RfD	3.47E-06	8.02E-05	1.11E-04	1.95E-04	1.73E-05	4.01E-04	5.56E-04	9.74E-04
RESI	Closure-Base	Beryllium	Child	RfD	1.36E-08	1.98E-07	1.04E-06	1.25E-06	6.80E-06	9.89E-05	5.18E-04	6.24E-04
RESI	Closure-Base	Chromium	Child	RfD	9.89E-07	0.00E+00	4.88E-05	4.98E-05	6.59E-07	0.00E+00	3.25E-05	3.32E-05
RESI	Closure-Base	Cobalt	Child	RfD	1.17E-07	2.41E-05	4.26E-05	6.68E-05	3.90E-04	8.03E-02	1.42E-01	2.23E-01
RESI	Closure-Base	Iron	Child	RfD	1.27E-03	3.13E-03	7.66E-02	8.10E-02	1.82E-03	4.47E-03	1.09E-01	1.16E-01
RESI	Closure-Base	Lead	Child	RfD	7.17E-08	0.00E+00	8.88E-06	8.96E-06	1.43E-04	0.00E+00	1.78E-02	1.79E-02

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Closure-Base	Manganese	Child	RfD	2.80E-05	1.67E-03	3.64E-03	5.34E-03	5.84E-04	6.67E-02	2.60E-02	9.33E-02
RESI	Closure-Base	Mercury	Child	RfD	1.14E-09	0.00E+00	5.02E-07	5.03E-07	5.70E-06	0.00E+00	2.51E-03	2.51E-03
RESI	Closure-Base	Molybdenum	Child	RfD	1.25E-07	3.85E-05	2.47E-04	2.86E-04	2.50E-05	7.69E-03	4.94E-02	5.71E-02
RESI	Closure-Base	Selenium	Child	RfD	8.38E-09	7.10E-06	5.47E-04	5.54E-04	1.52E-06	1.29E-03	9.94E-02	1.01E-01
RESI	Post Closure-Base	Arsenic	Child	RfD	3.09E-08	0.00E+00	1.65E-06	1.68E-06	5.15E-04	0.00E+00	2.74E-02	2.80E-02
RESI	Post Closure-Base	Barium	Child	RfD	3.47E-06	7.45E-05	1.06E-04	1.84E-04	1.73E-05	3.73E-04	5.29E-04	9.19E-04
RESI	Post Closure-Base	Beryllium	Child	RfD	1.36E-08	0.00E+00	5.82E-07	5.96E-07	6.80E-06	0.00E+00	2.91E-04	2.98E-04
RESI	Post Closure-Base	Chromium	Child	RfD	9.89E-07	0.00E+00	4.41E-05	4.51E-05	6.59E-07	0.00E+00	2.94E-05	3.01E-05
RESI	Post Closure-Base	Cobalt	Child	RfD	1.17E-07	0.00E+00	1.22E-05	1.23E-05	3.90E-04	0.00E+00	4.08E-02	4.12E-02
RESI	Post Closure-Base	Iron	Child	RfD	1.27E-03	2.13E-03	7.42E-02	7.76E-02	1.82E-03	3.04E-03	1.06E-01	1.11E-01
RESI	Post Closure-Base	Lead	Child	RfD	7.17E-08	0.00E+00	8.88E-06	8.96E-06	1.43E-04	0.00E+00	1.78E-02	1.79E-02
RESI	Post Closure-Base	Manganese	Child	RfD	2.80E-05	1.48E-03	3.45E-03	4.96E-03	5.84E-04	5.94E-02	2.47E-02	8.46E-02
RESI	Post Closure-Base	Mercury	Child	RfD	1.14E-09	0.00E+00	5.02E-07	5.03E-07	5.70E-06	0.00E+00	2.51E-03	2.51E-03
RESI	Post Closure-Base	Molybdenum	Child	RfD	1.25E-07	2.25E-05	2.15E-04	2.38E-04	2.50E-05	4.50E-03	4.30E-02	4.75E-02
RESI	Post Closure-Base	Selenium	Child	RfD	8.38E-09	0.00E+00	1.66E-03	1.66E-03	1.52E-06	0.00E+00	3.02E-01	3.02E-01
RESI	Project-Base	Arsenic	Adolescent	RfD	1.81E-08	3.70E-06	2.17E-06	5.90E-06	3.01E-04	6.17E-02	3.62E-02	9.83E-02
RESI	Project-Base	Barium	Adolescent	RfD	2.21E-06	5.49E-05	7.79E-05	1.35E-04	1.10E-05	2.75E-04	3.89E-04	6.75E-04
RESI	Project-Base	Beryllium	Adolescent	RfD	8.67E-09	4.78E-07	1.61E-06	2.10E-06	4.33E-06	2.39E-04	8.05E-04	1.05E-03
RESI	Project-Base	Chromium	Adolescent	RfD	6.30E-07	4.62E-08	4.23E-05	4.30E-05	4.20E-07	3.08E-08	2.82E-05	2.87E-05
RESI	Project-Base	Cobalt	Adolescent	RfD	7.45E-08	2.65E-05	4.46E-05	7.12E-05	2.48E-04	8.85E-02	1.49E-01	2.37E-01
RESI	Project-Base	Iron	Adolescent	RfD	8.11E-04	2.71E-03	7.55E-02	7.90E-02	1.16E-03	3.87E-03	1.08E-01	1.13E-01
RESI	Project-Base	Lead	Adolescent	RfD	4.01E-08	0.00E+00	8.26E-06	8.30E-06	8.01E-05	0.00E+00	1.65E-02	1.66E-02
RESI	Project-Base	Manganese	Adolescent	RfD	1.79E-05	1.59E-03	3.48E-03	5.09E-03	3.72E-04	6.37E-02	2.49E-02	8.89E-02
RESI	Project-Base	Mercury	Adolescent	RfD	8.68E-10	0.00E+00	4.35E-07	4.36E-07	4.34E-06	0.00E+00	2.18E-03	2.18E-03
RESI	Project-Base	Molybdenum	Adolescent	RfD	7.95E-08	3.77E-05	2.59E-04	2.97E-04	1.59E-05	7.54E-03	5.18E-02	5.93E-02
RESI	Project-Base	Selenium	Adolescent	RfD	4.72E-09	9.16E-06	5.47E-04	5.56E-04	8.59E-07	1.66E-03	9.95E-02	1.01E-01
RESI	Closure-Base	Arsenic	Adolescent	RfD	1.81E-08	1.85E-06	1.42E-06	3.29E-06	3.01E-04	3.09E-02	2.36E-02	5.48E-02
RESI	Closure-Base	Barium	Adolescent	RfD	2.21E-06	5.34E-05	7.56E-05	1.31E-04	1.10E-05	2.67E-04	3.78E-04	6.56E-04
RESI	Closure-Base	Beryllium	Adolescent	RfD	8.67E-09	1.32E-07	8.20E-07	9.60E-07	4.33E-06	6.58E-05	4.10E-04	4.80E-04
RESI	Closure-Base	Chromium	Adolescent	RfD	6.30E-07	0.00E+00	4.12E-05	4.19E-05	4.20E-07	0.00E+00	2.75E-05	2.79E-05
RESI	Closure-Base	Cobalt	Adolescent	RfD	7.45E-08	1.60E-05	3.04E-05	4.65E-05	2.48E-04	5.32E-02	1.01E-01	1.55E-01
RESI	Closure-Base	Iron	Adolescent	RfD	8.11E-04	2.08E-03	6.03E-02	6.32E-02	1.16E-03	2.97E-03	8.61E-02	9.03E-02
RESI	Closure-Base	Lead	Adolescent	RfD	4.01E-08	0.00E+00	8.26E-06	8.30E-06	8.01E-05	0.00E+00	1.65E-02	1.66E-02
RESI	Closure-Base	Manganese	Adolescent	RfD	1.79E-05	1.11E-03	2.65E-03	3.78E-03	3.72E-04	4.44E-02	1.89E-02	6.37E-02
RESI	Closure-Base	Mercury	Adolescent	RfD	8.68E-10	0.00E+00	4.35E-07	4.36E-07	4.34E-06	0.00E+00	2.18E-03	2.18E-03
RESI	Closure-Base	Molybdenum	Adolescent	RfD	7.95E-08	2.56E-05	1.77E-04	2.02E-04	1.59E-05	5.12E-03	3.53E-02	4.04E-02
RESI	Closure-Base	Selenium	Adolescent	RfD	4.72E-09	4.72E-06	4.07E-04	4.11E-04	8.59E-07	8.59E-04	7.39E-02	7.48E-02
RESI	Post Closure-Base	Arsenic	Adolescent	RfD	1.81E-08	0.00E+00	1.15E-06	1.17E-06	3.01E-04	0.00E+00	1.92E-02	1.95E-02

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Post Closure-Base	Barium	Adolescent	RfD	2.21E-06	4.96E-05	7.22E-05	1.24E-04	1.10E-05	2.48E-04	3.61E-04	6.20E-04
RESI	Post Closure-Base	Beryllium	Adolescent	RfD	8.67E-09	0.00E+00	5.17E-07	5.26E-07	4.33E-06	0.00E+00	2.59E-04	2.63E-04
RESI	Post Closure-Base	Chromium	Adolescent	RfD	6.30E-07	0.00E+00	3.72E-05	3.79E-05	4.20E-07	0.00E+00	2.48E-05	2.52E-05
RESI	Post Closure-Base	Cobalt	Adolescent	RfD	7.45E-08	0.00E+00	1.02E-05	1.03E-05	2.48E-04	0.00E+00	3.39E-02	3.42E-02
RESI	Post Closure-Base	Iron	Adolescent	RfD	8.11E-04	1.42E-03	5.92E-02	6.15E-02	1.16E-03	2.02E-03	8.46E-02	8.78E-02
RESI	Post Closure-Base	Lead	Adolescent	RfD	4.01E-08	0.00E+00	8.26E-06	8.30E-06	8.01E-05	0.00E+00	1.65E-02	1.66E-02
RESI	Post Closure-Base	Manganese	Adolescent	RfD	1.79E-05	9.88E-04	2.54E-03	3.54E-03	3.72E-04	3.95E-02	1.81E-02	5.80E-02
RESI	Post Closure-Base	Mercury	Adolescent	RfD	8.68E-10	0.00E+00	4.35E-07	4.36E-07	4.34E-06	0.00E+00	2.18E-03	2.18E-03
RESI	Post Closure-Base	Molybdenum	Adolescent	RfD	7.95E-08	1.50E-05	1.60E-04	1.75E-04	1.59E-05	3.00E-03	3.21E-02	3.51E-02
RESI	Post Closure-Base	Selenium	Adolescent	RfD	4.72E-09	0.00E+00	1.23E-03	1.23E-03	8.59E-07	0.00E+00	2.23E-01	2.23E-01
RESI	Project-Base	Arsenic	Adult	RfD	1.56E-08	4.54E-06	1.88E-06	6.43E-06	2.61E-04	7.56E-02	3.13E-02	1.07E-01
RESI	Project-Base	Barium	Adult	RfD	1.97E-06	6.73E-05	6.68E-05	1.36E-04	9.83E-06	3.36E-04	3.34E-04	6.80E-04
RESI	Project-Base	Beryllium	Adult	RfD	7.72E-09	5.86E-07	1.37E-06	1.96E-06	3.86E-06	2.93E-04	6.84E-04	9.81E-04
RESI	Project-Base	Chromium	Adult	RfD	5.61E-07	5.66E-08	3.84E-05	3.90E-05	3.74E-07	3.77E-08	2.56E-05	2.60E-05
RESI	Project-Base	Cobalt	Adult	RfD	6.63E-08	3.26E-05	3.81E-05	7.08E-05	2.21E-04	1.09E-01	1.27E-01	2.36E-01
RESI	Project-Base	Iron	Adult	RfD	7.23E-04	3.32E-03	6.61E-02	7.02E-02	1.03E-03	4.74E-03	9.45E-02	1.00E-01
RESI	Project-Base	Lead	Adult	RfD	3.40E-08	0.00E+00	7.42E-06	7.45E-06	6.80E-05	0.00E+00	1.48E-02	1.49E-02
RESI	Project-Base	Manganese	Adult	RfD	1.59E-05	1.95E-03	3.04E-03	5.01E-03	3.31E-04	7.80E-02	2.17E-02	1.00E-01
RESI	Project-Base	Mercury	Adult	RfD	8.15E-10	0.00E+00	4.04E-07	4.05E-07	4.08E-06	0.00E+00	2.02E-03	2.02E-03
RESI	Project-Base	Molybdenum	Adult	RfD	7.08E-08	4.62E-05	2.23E-04	2.69E-04	1.42E-05	9.24E-03	4.46E-02	5.38E-02
RESI	Project-Base	Selenium	Adult	RfD	4.02E-09	1.12E-05	4.78E-04	4.89E-04	7.32E-07	2.04E-03	8.69E-02	8.89E-02
RESI	Closure-Base	Arsenic	Adult	RfD	1.56E-08	2.27E-06	1.23E-06	3.52E-06	2.61E-04	3.79E-02	2.05E-02	5.87E-02
RESI	Closure-Base	Barium	Adult	RfD	1.97E-06	6.54E-05	6.49E-05	1.32E-04	9.83E-06	3.27E-04	3.25E-04	6.62E-04
RESI	Closure-Base	Beryllium	Adult	RfD	7.72E-09	1.61E-07	7.02E-07	8.71E-07	3.86E-06	8.06E-05	3.51E-04	4.36E-04
RESI	Closure-Base	Chromium	Adult	RfD	5.61E-07	0.00E+00	3.74E-05	3.80E-05	3.74E-07	0.00E+00	2.50E-05	2.53E-05
RESI	Closure-Base	Cobalt	Adult	RfD	6.63E-08	1.96E-05	2.62E-05	4.59E-05	2.21E-04	6.54E-02	8.72E-02	1.53E-01
RESI	Closure-Base	Iron	Adult	RfD	7.23E-04	2.55E-03	5.30E-02	5.63E-02	1.03E-03	3.64E-03	7.57E-02	8.04E-02
RESI	Closure-Base	Lead	Adult	RfD	3.40E-08	0.00E+00	7.42E-06	7.45E-06	6.80E-05	0.00E+00	1.48E-02	1.49E-02
RESI	Closure-Base	Manganese	Adult	RfD	1.59E-05	1.36E-03	2.34E-03	3.71E-03	3.31E-04	5.44E-02	1.67E-02	7.14E-02
RESI	Closure-Base	Mercury	Adult	RfD	8.15E-10	0.00E+00	4.04E-07	4.05E-07	4.08E-06	0.00E+00	2.02E-03	2.02E-03
RESI	Closure-Base	Molybdenum	Adult	RfD	7.08E-08	3.14E-05	1.53E-04	1.84E-04	1.42E-05	6.27E-03	3.06E-02	3.68E-02
RESI	Closure-Base	Selenium	Adult	RfD	4.02E-09	5.79E-06	3.56E-04	3.62E-04	7.32E-07	1.05E-03	6.47E-02	6.58E-02
RESI	Post Closure-Base	Arsenic	Adult	RfD	1.56E-08	0.00E+00	1.02E-06	1.04E-06	2.61E-04	0.00E+00	1.70E-02	1.73E-02
RESI	Post Closure-Base	Barium	Adult	RfD	1.97E-06	6.08E-05	6.21E-05	1.25E-04	9.83E-06	3.04E-04	3.10E-04	6.24E-04
RESI	Post Closure-Base	Beryllium	Adult	RfD	7.72E-09	0.00E+00	4.47E-07	4.54E-07	3.86E-06	0.00E+00	2.23E-04	2.27E-04
RESI	Post Closure-Base	Chromium	Adult	RfD	5.61E-07	0.00E+00	3.40E-05	3.46E-05	3.74E-07	0.00E+00	2.27E-05	2.31E-05
RESI	Post Closure-Base	Cobalt	Adult	RfD	6.63E-08	0.00E+00	9.03E-06	9.09E-06	2.21E-04	0.00E+00	3.01E-02	3.03E-02
RESI	Post Closure-Base	Iron	Adult	RfD	7.23E-04	1.74E-03	5.22E-02	5.47E-02	1.03E-03	2.48E-03	7.46E-02	7.81E-02

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Post Closure-Base	Lead	Adult	RfD	3.40E-08	0.00E+00	7.42E-06	7.45E-06	6.80E-05	0.00E+00	1.48E-02	1.49E-02
RESI	Post Closure-Base	Manganese	Adult	RfD	1.59E-05	1.21E-03	2.25E-03	3.47E-03	3.31E-04	4.84E-02	1.60E-02	6.48E-02
RESI	Post Closure-Base	Mercury	Adult	RfD	8.15E-10	0.00E+00	4.04E-07	4.05E-07	4.08E-06	0.00E+00	2.02E-03	2.02E-03
RESI	Post Closure-Base	Molybdenum	Adult	RfD	7.08E-08	1.83E-05	1.40E-04	1.58E-04	1.42E-05	3.67E-03	2.80E-02	3.17E-02
RESI	Post Closure-Base	Selenium	Adult	RfD	4.02E-09	0.00E+00	1.07E-03	1.07E-03	7.32E-07	0.00E+00	1.95E-01	1.95E-01
Inorganic Mercury												
RESI	Base	MercuryIng	Infant	RfD	4.15E-07	1.20E-06	0.00E+00	1.61E-06	1.38E-03	4.00E-03	0.00E+00	5.38E-03
RESI	Project	MercuryIng	Infant	RfD	4.18E-07	1.13E-06	0.00E+00	1.55E-06	1.39E-03	3.77E-03	0.00E+00	5.16E-03
RESI	Closure	MercuryIng	Infant	RfD	4.18E-07	1.13E-06	0.00E+00	1.55E-06	1.39E-03	3.78E-03	0.00E+00	5.17E-03
RESI	Post Closure	MercuryIng	Infant	RfD	4.18E-07	1.09E-06	0.00E+00	1.51E-06	1.39E-03	3.63E-03	0.00E+00	5.02E-03
RECR	Base	MercuryIng	Infant	RfD	4.15E-07	1.20E-06	0.00E+00	1.61E-06	1.38E-03	4.00E-03	0.00E+00	5.38E-03
RECR	Project	MercuryIng	Infant	RfD	4.18E-07	1.13E-06	0.00E+00	1.55E-06	1.39E-03	3.77E-03	0.00E+00	5.16E-03
RECR	Closure	MercuryIng	Infant	RfD	4.18E-07	1.13E-06	0.00E+00	1.55E-06	1.39E-03	3.78E-03	0.00E+00	5.17E-03
RECR	Post Closure	MercuryIng	Infant	RfD	4.18E-07	1.09E-06	0.00E+00	1.51E-06	1.39E-03	3.63E-03	0.00E+00	5.02E-03
URBN	Base	MercuryIng	Infant	RfD	4.15E-07	0.00E+00	0.00E+00	4.15E-07	1.38E-03	0.00E+00	0.00E+00	1.38E-03
URBN	Project	MercuryIng	Infant	RfD	4.15E-07	0.00E+00	0.00E+00	4.15E-07	1.38E-03	0.00E+00	0.00E+00	1.38E-03
URBN	Closure	MercuryIng	Infant	RfD	4.15E-07	0.00E+00	0.00E+00	4.15E-07	1.38E-03	0.00E+00	0.00E+00	1.38E-03
URBN	Post Closure	MercuryIng	Infant	RfD	4.15E-07	0.00E+00	0.00E+00	4.15E-07	1.38E-03	0.00E+00	0.00E+00	1.38E-03
COMM	Base	MercuryIng	Infant	RfD	4.18E-07	0.00E+00	0.00E+00	4.18E-07	1.39E-03	0.00E+00	0.00E+00	1.39E-03
COMM	Project	MercuryIng	Infant	RfD	4.19E-07	0.00E+00	0.00E+00	4.19E-07	1.40E-03	0.00E+00	0.00E+00	1.40E-03
COMM	Closure	MercuryIng	Infant	RfD	4.19E-07	0.00E+00	0.00E+00	4.19E-07	1.40E-03	0.00E+00	0.00E+00	1.40E-03
COMM	Post Closure	MercuryIng	Infant	RfD	4.19E-07	0.00E+00	0.00E+00	4.19E-07	1.40E-03	0.00E+00	0.00E+00	1.40E-03
RESI	Base	MercuryIng	Toddler	RfD	4.44E-07	1.39E-06	1.41E-04	1.43E-04	1.48E-03	4.63E-03	4.70E-01	4.76E-01
RESI	Project	MercuryIng	Toddler	RfD	4.47E-07	1.31E-06	1.35E-04	1.37E-04	1.49E-03	4.37E-03	4.50E-01	4.55E-01
RESI	Closure	MercuryIng	Toddler	RfD	4.47E-07	1.31E-06	1.35E-04	1.37E-04	1.49E-03	4.38E-03	4.50E-01	4.56E-01
RESI	Post Closure	MercuryIng	Toddler	RfD	4.47E-07	1.26E-06	1.31E-04	1.33E-04	1.49E-03	4.21E-03	4.37E-01	4.43E-01
RECR	Base	MercuryIng	Toddler	RfD	4.44E-07	1.39E-06	5.88E-05	6.06E-05	1.48E-03	4.63E-03	1.96E-01	2.02E-01
RECR	Project	MercuryIng	Toddler	RfD	4.47E-07	1.31E-06	5.59E-05	5.76E-05	1.49E-03	4.37E-03	1.86E-01	1.92E-01
RECR	Closure	MercuryIng	Toddler	RfD	4.47E-07	1.31E-06	5.60E-05	5.77E-05	1.49E-03	4.38E-03	1.87E-01	1.92E-01
RECR	Post Closure	MercuryIng	Toddler	RfD	4.47E-07	1.26E-06	5.41E-05	5.58E-05	1.49E-03	4.21E-03	1.80E-01	1.86E-01
URBN	Base	MercuryIng	Toddler	RfD	4.44E-07	0.00E+00	3.14E-06	3.59E-06	1.48E-03	0.00E+00	1.05E-02	1.20E-02
URBN	Project	MercuryIng	Toddler	RfD	4.45E-07	0.00E+00	3.14E-06	3.59E-06	1.48E-03	0.00E+00	1.05E-02	1.20E-02
URBN	Closure	MercuryIng	Toddler	RfD	4.45E-07	0.00E+00	3.14E-06	3.59E-06	1.48E-03	0.00E+00	1.05E-02	1.20E-02
URBN	Post Closure	MercuryIng	Toddler	RfD	4.45E-07	0.00E+00	3.14E-06	3.59E-06	1.48E-03	0.00E+00	1.05E-02	1.20E-02
COMM	Base	MercuryIng	Toddler	RfD	4.50E-07	0.00E+00	0.00E+00	4.50E-07	1.50E-03	0.00E+00	0.00E+00	1.50E-03
COMM	Project	MercuryIng	Toddler	RfD	4.51E-07	0.00E+00	0.00E+00	4.51E-07	1.50E-03	0.00E+00	0.00E+00	1.50E-03
COMM	Closure	MercuryIng	Toddler	RfD	4.51E-07	0.00E+00	0.00E+00	4.51E-07	1.50E-03	0.00E+00	0.00E+00	1.50E-03

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
COMM	Post Closure	MercuryIng	Toddler	RfD	4.51E-07	0.00E+00	0.00E+00	4.51E-07	1.50E-03	0.00E+00	0.00E+00	1.50E-03
RESI	Base	MercuryIng	Child	RfD	1.86E-07	9.04E-07	1.13E-04	1.14E-04	6.21E-04	3.01E-03	3.77E-01	3.80E-01
RESI	Project	MercuryIng	Child	RfD	1.88E-07	8.53E-07	1.08E-04	1.09E-04	6.25E-04	2.84E-03	3.60E-01	3.64E-01
RESI	Closure	MercuryIng	Child	RfD	1.88E-07	8.55E-07	1.08E-04	1.09E-04	6.25E-04	2.85E-03	3.61E-01	3.64E-01
RESI	Post Closure	MercuryIng	Child	RfD	1.88E-07	8.22E-07	1.05E-04	1.06E-04	6.25E-04	2.74E-03	3.50E-01	3.53E-01
RECR	Base	MercuryIng	Child	RfD	1.86E-07	9.04E-07	4.20E-05	4.31E-05	6.21E-04	3.01E-03	1.40E-01	1.44E-01
RECR	Project	MercuryIng	Child	RfD	1.88E-07	8.53E-07	3.99E-05	4.09E-05	6.25E-04	2.84E-03	1.33E-01	1.36E-01
RECR	Closure	MercuryIng	Child	RfD	1.88E-07	8.55E-07	3.99E-05	4.10E-05	6.25E-04	2.85E-03	1.33E-01	1.37E-01
RECR	Post Closure	MercuryIng	Child	RfD	1.88E-07	8.22E-07	3.86E-05	3.96E-05	6.25E-04	2.74E-03	1.29E-01	1.32E-01
URBN	Base	MercuryIng	Child	RfD	1.86E-07	0.00E+00	2.33E-06	2.52E-06	6.21E-04	0.00E+00	7.78E-03	8.40E-03
URBN	Project	MercuryIng	Child	RfD	1.87E-07	0.00E+00	2.33E-06	2.52E-06	6.22E-04	0.00E+00	7.78E-03	8.40E-03
URBN	Closure	MercuryIng	Child	RfD	1.87E-07	0.00E+00	2.33E-06	2.52E-06	6.22E-04	0.00E+00	7.78E-03	8.40E-03
URBN	Post Closure	MercuryIng	Child	RfD	1.87E-07	0.00E+00	2.33E-06	2.52E-06	6.22E-04	0.00E+00	7.78E-03	8.40E-03
COMM	Base	MercuryIng	Child	RfD	1.92E-07	0.00E+00	0.00E+00	1.92E-07	6.39E-04	0.00E+00	0.00E+00	6.39E-04
COMM	Project	MercuryIng	Child	RfD	1.92E-07	0.00E+00	0.00E+00	1.92E-07	6.40E-04	0.00E+00	0.00E+00	6.40E-04
COMM	Closure	MercuryIng	Child	RfD	1.92E-07	0.00E+00	0.00E+00	1.92E-07	6.40E-04	0.00E+00	0.00E+00	6.40E-04
COMM	Post Closure	MercuryIng	Child	RfD	1.92E-07	0.00E+00	0.00E+00	1.92E-07	6.40E-04	0.00E+00	0.00E+00	6.40E-04
RESI	Base	MercuryIng	Adolescent	RfD	1.42E-07	6.02E-07	7.61E-05	7.68E-05	4.73E-04	2.01E-03	2.54E-01	2.56E-01
RESI	Project	MercuryIng	Adolescent	RfD	1.43E-07	5.68E-07	7.28E-05	7.35E-05	4.76E-04	1.89E-03	2.43E-01	2.45E-01
RESI	Closure	MercuryIng	Adolescent	RfD	1.43E-07	5.69E-07	7.29E-05	7.36E-05	4.76E-04	1.90E-03	2.43E-01	2.45E-01
RESI	Post Closure	MercuryIng	Adolescent	RfD	1.43E-07	5.47E-07	7.08E-05	7.14E-05	4.76E-04	1.82E-03	2.36E-01	2.38E-01
RECR	Base	MercuryIng	Adolescent	RfD	1.42E-07	6.02E-07	3.53E-05	3.60E-05	4.73E-04	2.01E-03	1.18E-01	1.20E-01
RECR	Project	MercuryIng	Adolescent	RfD	1.43E-07	5.68E-07	3.35E-05	3.42E-05	4.76E-04	1.89E-03	1.12E-01	1.14E-01
RECR	Closure	MercuryIng	Adolescent	RfD	1.43E-07	5.69E-07	3.36E-05	3.43E-05	4.76E-04	1.90E-03	1.12E-01	1.14E-01
RECR	Post Closure	MercuryIng	Adolescent	RfD	1.43E-07	5.47E-07	3.24E-05	3.31E-05	4.76E-04	1.82E-03	1.08E-01	1.10E-01
URBN	Base	MercuryIng	Adolescent	RfD	1.42E-07	0.00E+00	1.64E-06	1.78E-06	4.73E-04	0.00E+00	5.46E-03	5.93E-03
URBN	Project	MercuryIng	Adolescent	RfD	1.42E-07	0.00E+00	1.64E-06	1.78E-06	4.74E-04	0.00E+00	5.46E-03	5.94E-03
URBN	Closure	MercuryIng	Adolescent	RfD	1.42E-07	0.00E+00	1.64E-06	1.78E-06	4.74E-04	0.00E+00	5.46E-03	5.94E-03
URBN	Post Closure	MercuryIng	Adolescent	RfD	1.42E-07	0.00E+00	1.64E-06	1.78E-06	4.74E-04	0.00E+00	5.46E-03	5.94E-03
COMM	Base	MercuryIng	Adolescent	RfD	1.45E-07	0.00E+00	0.00E+00	1.45E-07	4.84E-04	0.00E+00	0.00E+00	4.84E-04
COMM	Project	MercuryIng	Adolescent	RfD	1.45E-07	0.00E+00	0.00E+00	1.45E-07	4.84E-04	0.00E+00	0.00E+00	4.84E-04
COMM	Closure	MercuryIng	Adolescent	RfD	1.45E-07	0.00E+00	0.00E+00	1.45E-07	4.84E-04	0.00E+00	0.00E+00	4.84E-04
COMM	Post Closure	MercuryIng	Adolescent	RfD	1.45E-07	0.00E+00	0.00E+00	1.45E-07	4.84E-04	0.00E+00	0.00E+00	4.84E-04
RESI	Base	MercuryIng	Adult	RfD	1.33E-07	7.37E-07	6.50E-05	6.59E-05	4.44E-04	2.46E-03	2.17E-01	2.20E-01
RESI	Project	MercuryIng	Adult	RfD	1.34E-07	6.96E-07	6.22E-05	6.30E-05	4.47E-04	2.32E-03	2.07E-01	2.10E-01
RESI	Closure	MercuryIng	Adult	RfD	1.34E-07	6.97E-07	6.23E-05	6.31E-05	4.47E-04	2.32E-03	2.08E-01	2.10E-01
RESI	Post Closure	MercuryIng	Adult	RfD	1.34E-07	6.70E-07	6.05E-05	6.13E-05	4.47E-04	2.23E-03	2.02E-01	2.04E-01
RECR	Base	MercuryIng	Adult	RfD	1.33E-07	7.37E-07	3.00E-05	3.08E-05	4.44E-04	2.46E-03	9.99E-02	1.03E-01

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RECR	Project	MercuryIng	Adult	RfD	1.34E-07	6.96E-07	2.84E-05	2.93E-05	4.47E-04	2.32E-03	9.48E-02	9.76E-02
RECR	Closure	MercuryIng	Adult	RfD	1.34E-07	6.97E-07	2.85E-05	2.93E-05	4.47E-04	2.32E-03	9.49E-02	9.77E-02
RECR	Post Closure	MercuryIng	Adult	RfD	1.34E-07	6.70E-07	2.75E-05	2.83E-05	4.47E-04	2.23E-03	9.17E-02	9.44E-02
URBN	Base	MercuryIng	Adult	RfD	1.33E-07	0.00E+00	1.45E-06	1.58E-06	4.44E-04	0.00E+00	4.84E-03	5.28E-03
URBN	Project	MercuryIng	Adult	RfD	1.33E-07	0.00E+00	1.45E-06	1.58E-06	4.44E-04	0.00E+00	4.84E-03	5.28E-03
URBN	Closure	MercuryIng	Adult	RfD	1.33E-07	0.00E+00	1.45E-06	1.58E-06	4.44E-04	0.00E+00	4.84E-03	5.28E-03
URBN	Post Closure	MercuryIng	Adult	RfD	1.33E-07	0.00E+00	1.45E-06	1.58E-06	4.44E-04	0.00E+00	4.84E-03	5.28E-03
COMM	Base	MercuryIng	Adult	RfD	1.36E-07	0.00E+00	0.00E+00	1.36E-07	4.54E-04	0.00E+00	0.00E+00	4.54E-04
COMM	Project	MercuryIng	Adult	RfD	1.36E-07	0.00E+00	0.00E+00	1.36E-07	4.54E-04	0.00E+00	0.00E+00	4.54E-04
COMM	Closure	MercuryIng	Adult	RfD	1.36E-07	0.00E+00	0.00E+00	1.36E-07	4.54E-04	0.00E+00	0.00E+00	4.54E-04
COMM	Post Closure	MercuryIng	Adult	RfD	1.36E-07	0.00E+00	0.00E+00	1.36E-07	4.54E-04	0.00E+00	0.00E+00	4.54E-04
RESI	Project-Base	MercuryIng	Infant	RfD	2.50E-09	0.00E+00	0.00E+00	2.50E-09	8.34E-06	0.00E+00	0.00E+00	8.34E-06
RESI	Closure-Base	MercuryIng	Infant	RfD	2.50E-09	0.00E+00	0.00E+00	2.50E-09	8.34E-06	0.00E+00	0.00E+00	8.34E-06
RESI	Post Closure-Base	MercuryIng	Infant	RfD	2.50E-09	0.00E+00	0.00E+00	2.50E-09	8.34E-06	0.00E+00	0.00E+00	8.34E-06
RECR	Project-Base	MercuryIng	Infant	RfD	2.50E-09	0.00E+00	0.00E+00	2.50E-09	8.34E-06	0.00E+00	0.00E+00	8.34E-06
RECR	Closure-Base	MercuryIng	Infant	RfD	2.50E-09	0.00E+00	0.00E+00	2.50E-09	8.34E-06	0.00E+00	0.00E+00	8.34E-06
RECR	Post Closure-Base	MercuryIng	Infant	RfD	2.50E-09	0.00E+00	0.00E+00	2.50E-09	8.34E-06	0.00E+00	0.00E+00	8.34E-06
URBN	Project-Base	MercuryIng	Infant	RfD	4.33E-10	0.00E+00	0.00E+00	4.33E-10	1.44E-06	0.00E+00	0.00E+00	1.44E-06
URBN	Closure-Base	MercuryIng	Infant	RfD	4.33E-10	0.00E+00	0.00E+00	4.33E-10	1.44E-06	0.00E+00	0.00E+00	1.44E-06
URBN	Post Closure-Base	MercuryIng	Infant	RfD	4.33E-10	0.00E+00	0.00E+00	4.33E-10	1.44E-06	0.00E+00	0.00E+00	1.44E-06
COMM	Project-Base	MercuryIng	Infant	RfD	3.65E-10	0.00E+00	0.00E+00	3.65E-10	1.22E-06	0.00E+00	0.00E+00	1.22E-06
COMM	Closure-Base	MercuryIng	Infant	RfD	3.65E-10	0.00E+00	0.00E+00	3.65E-10	1.22E-06	0.00E+00	0.00E+00	1.22E-06
COMM	Post Closure-Base	MercuryIng	Infant	RfD	3.65E-10	0.00E+00	0.00E+00	3.65E-10	1.22E-06	0.00E+00	0.00E+00	1.22E-06
RESI	Project-Base	MercuryIng	Toddler	RfD	2.68E-09	0.00E+00	1.61E-07	1.64E-07	8.92E-06	0.00E+00	5.37E-04	5.45E-04
RESI	Closure-Base	MercuryIng	Toddler	RfD	2.68E-09	0.00E+00	1.61E-07	1.64E-07	8.92E-06	0.00E+00	5.37E-04	5.45E-04
RESI	Post Closure-Base	MercuryIng	Toddler	RfD	2.68E-09	0.00E+00	1.61E-07	1.64E-07	8.92E-06	0.00E+00	5.37E-04	5.45E-04
RECR	Project-Base	MercuryIng	Toddler	RfD	2.68E-09	0.00E+00	3.22E-08	3.49E-08	8.92E-06	0.00E+00	1.07E-04	1.16E-04
RECR	Closure-Base	MercuryIng	Toddler	RfD	2.68E-09	0.00E+00	3.22E-08	3.49E-08	8.92E-06	0.00E+00	1.07E-04	1.16E-04
RECR	Post Closure-Base	MercuryIng	Toddler	RfD	2.68E-09	0.00E+00	3.22E-08	3.49E-08	8.92E-06	0.00E+00	1.07E-04	1.16E-04
URBN	Project-Base	MercuryIng	Toddler	RfD	4.63E-10	0.00E+00	3.68E-10	8.31E-10	1.54E-06	0.00E+00	1.23E-06	2.77E-06
URBN	Closure-Base	MercuryIng	Toddler	RfD	4.63E-10	0.00E+00	3.68E-10	8.31E-10	1.54E-06	0.00E+00	1.23E-06	2.77E-06
URBN	Post Closure-Base	MercuryIng	Toddler	RfD	4.63E-10	0.00E+00	3.68E-10	8.31E-10	1.54E-06	0.00E+00	1.23E-06	2.77E-06
COMM	Project-Base	MercuryIng	Toddler	RfD	3.93E-10	0.00E+00	0.00E+00	3.93E-10	1.31E-06	0.00E+00	0.00E+00	1.31E-06
COMM	Closure-Base	MercuryIng	Toddler	RfD	3.93E-10	0.00E+00	0.00E+00	3.93E-10	1.31E-06	0.00E+00	0.00E+00	1.31E-06
COMM	Post Closure-Base	MercuryIng	Toddler	RfD	3.93E-10	0.00E+00	0.00E+00	3.93E-10	1.31E-06	0.00E+00	0.00E+00	1.31E-06
RESI	Project-Base	MercuryIng	Child	RfD	1.12E-09	0.00E+00	1.22E-07	1.23E-07	3.74E-06	0.00E+00	4.06E-04	4.10E-04
RESI	Closure-Base	MercuryIng	Child	RfD	1.12E-09	0.00E+00	1.22E-07	1.23E-07	3.74E-06	0.00E+00	4.06E-04	4.10E-04
RESI	Post Closure-Base	MercuryIng	Child	RfD	1.12E-09	0.00E+00	1.22E-07	1.23E-07	3.74E-06	0.00E+00	4.06E-04	4.10E-04

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RECR	Project-Base	MercuryIng	Child	RfD	1.12E-09	0.00E+00	2.44E-08	2.55E-08	3.74E-06	0.00E+00	8.12E-05	8.50E-05
RECR	Closure-Base	MercuryIng	Child	RfD	1.12E-09	0.00E+00	2.44E-08	2.55E-08	3.74E-06	0.00E+00	8.12E-05	8.50E-05
RECR	Post Closure-Base	MercuryIng	Child	RfD	1.12E-09	0.00E+00	2.44E-08	2.55E-08	3.74E-06	0.00E+00	8.12E-05	8.50E-05
URBN	Project-Base	MercuryIng	Child	RfD	1.94E-10	0.00E+00	2.73E-10	4.67E-10	6.48E-07	0.00E+00	9.09E-07	1.56E-06
URBN	Closure-Base	MercuryIng	Child	RfD	1.94E-10	0.00E+00	2.73E-10	4.67E-10	6.48E-07	0.00E+00	9.09E-07	1.56E-06
URBN	Post Closure-Base	MercuryIng	Child	RfD	1.94E-10	0.00E+00	2.73E-10	4.67E-10	6.48E-07	0.00E+00	9.09E-07	1.56E-06
COMM	Project-Base	MercuryIng	Child	RfD	1.67E-10	0.00E+00	0.00E+00	1.67E-10	5.57E-07	0.00E+00	0.00E+00	5.57E-07
COMM	Closure-Base	MercuryIng	Child	RfD	1.67E-10	0.00E+00	0.00E+00	1.67E-10	5.57E-07	0.00E+00	0.00E+00	5.57E-07
COMM	Post Closure-Base	MercuryIng	Child	RfD	1.67E-10	0.00E+00	0.00E+00	1.67E-10	5.57E-07	0.00E+00	0.00E+00	5.57E-07
RESI	Project-Base	MercuryIng	Adolescent	RfD	8.55E-10	0.00E+00	1.04E-07	1.05E-07	2.85E-06	0.00E+00	3.46E-04	3.49E-04
RESI	Closure-Base	MercuryIng	Adolescent	RfD	8.55E-10	0.00E+00	1.04E-07	1.05E-07	2.85E-06	0.00E+00	3.46E-04	3.49E-04
RESI	Post Closure-Base	MercuryIng	Adolescent	RfD	8.55E-10	0.00E+00	1.04E-07	1.05E-07	2.85E-06	0.00E+00	3.46E-04	3.49E-04
RECR	Project-Base	MercuryIng	Adolescent	RfD	8.55E-10	0.00E+00	2.08E-08	2.16E-08	2.85E-06	0.00E+00	6.92E-05	7.21E-05
RECR	Closure-Base	MercuryIng	Adolescent	RfD	8.55E-10	0.00E+00	2.08E-08	2.16E-08	2.85E-06	0.00E+00	6.92E-05	7.21E-05
RECR	Post Closure-Base	MercuryIng	Adolescent	RfD	8.55E-10	0.00E+00	2.08E-08	2.16E-08	2.85E-06	0.00E+00	6.92E-05	7.21E-05
URBN	Project-Base	MercuryIng	Adolescent	RfD	1.48E-10	0.00E+00	1.91E-10	3.39E-10	4.93E-07	0.00E+00	6.35E-07	1.13E-06
URBN	Closure-Base	MercuryIng	Adolescent	RfD	1.48E-10	0.00E+00	1.91E-10	3.39E-10	4.93E-07	0.00E+00	6.35E-07	1.13E-06
URBN	Post Closure-Base	MercuryIng	Adolescent	RfD	1.48E-10	0.00E+00	1.91E-10	3.39E-10	4.93E-07	0.00E+00	6.35E-07	1.13E-06
COMM	Project-Base	MercuryIng	Adolescent	RfD	1.27E-10	0.00E+00	0.00E+00	1.27E-10	4.22E-07	0.00E+00	0.00E+00	4.22E-07
COMM	Closure-Base	MercuryIng	Adolescent	RfD	1.27E-10	0.00E+00	0.00E+00	1.27E-10	4.22E-07	0.00E+00	0.00E+00	4.22E-07
COMM	Post Closure-Base	MercuryIng	Adolescent	RfD	1.27E-10	0.00E+00	0.00E+00	1.27E-10	4.22E-07	0.00E+00	0.00E+00	4.22E-07
RESI	Project-Base	MercuryIng	Adult	RfD	8.03E-10	0.00E+00	9.68E-08	9.76E-08	2.68E-06	0.00E+00	3.23E-04	3.25E-04
RESI	Closure-Base	MercuryIng	Adult	RfD	8.03E-10	0.00E+00	9.68E-08	9.76E-08	2.68E-06	0.00E+00	3.23E-04	3.25E-04
RESI	Post Closure-Base	MercuryIng	Adult	RfD	8.03E-10	0.00E+00	9.68E-08	9.76E-08	2.68E-06	0.00E+00	3.23E-04	3.25E-04
RECR	Project-Base	MercuryIng	Adult	RfD	8.03E-10	0.00E+00	1.94E-08	2.02E-08	2.68E-06	0.00E+00	6.45E-05	6.72E-05
RECR	Closure-Base	MercuryIng	Adult	RfD	8.03E-10	0.00E+00	1.94E-08	2.02E-08	2.68E-06	0.00E+00	6.45E-05	6.72E-05
RECR	Post Closure-Base	MercuryIng	Adult	RfD	8.03E-10	0.00E+00	1.94E-08	2.02E-08	2.68E-06	0.00E+00	6.45E-05	6.72E-05
URBN	Project-Base	MercuryIng	Adult	RfD	1.39E-10	0.00E+00	1.70E-10	3.09E-10	4.63E-07	0.00E+00	5.68E-07	1.03E-06
URBN	Closure-Base	MercuryIng	Adult	RfD	1.39E-10	0.00E+00	1.70E-10	3.09E-10	4.63E-07	0.00E+00	5.68E-07	1.03E-06
URBN	Post Closure-Base	MercuryIng	Adult	RfD	1.39E-10	0.00E+00	1.70E-10	3.09E-10	4.63E-07	0.00E+00	5.68E-07	1.03E-06
COMM	Project-Base	MercuryIng	Adult	RfD	1.19E-10	0.00E+00	0.00E+00	1.19E-10	3.96E-07	0.00E+00	0.00E+00	3.96E-07
COMM	Closure-Base	MercuryIng	Adult	RfD	1.19E-10	0.00E+00	0.00E+00	1.19E-10	3.96E-07	0.00E+00	0.00E+00	3.96E-07
COMM	Post Closure-Base	MercuryIng	Adult	RfD	1.19E-10	0.00E+00	0.00E+00	1.19E-10	3.96E-07	0.00E+00	0.00E+00	3.96E-07
MercuryMethyl												
RESI	Base	MercuryMethyl	Infant	RfD	6.32E-09	1.33E-07	0.00E+00	1.39E-07	3.16E-05	6.66E-04	0.00E+00	6.97E-04
RESI	Project	MercuryMethyl	Infant	RfD	6.36E-09	1.26E-07	0.00E+00	1.32E-07	3.18E-05	6.28E-04	0.00E+00	6.60E-04
RESI	Closure	MercuryMethyl	Infant	RfD	6.36E-09	1.26E-07	0.00E+00	1.32E-07	3.18E-05	6.29E-04	0.00E+00	6.61E-04

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Post Closure	MercuryMethyl	Infant	RfD	6.36E-09	1.21E-07	0.00E+00	1.27E-07	3.18E-05	6.05E-04	0.00E+00	6.37E-04
RECR	Base	MercuryMethyl	Infant	RfD	6.32E-09	1.33E-07	0.00E+00	1.39E-07	3.16E-05	6.66E-04	0.00E+00	6.97E-04
RECR	Project	MercuryMethyl	Infant	RfD	6.36E-09	1.26E-07	0.00E+00	1.32E-07	3.18E-05	6.28E-04	0.00E+00	6.60E-04
RECR	Closure	MercuryMethyl	Infant	RfD	6.36E-09	1.26E-07	0.00E+00	1.32E-07	3.18E-05	6.29E-04	0.00E+00	6.61E-04
RECR	Post Closure	MercuryMethyl	Infant	RfD	6.36E-09	1.21E-07	0.00E+00	1.27E-07	3.18E-05	6.05E-04	0.00E+00	6.37E-04
URBN	Base	MercuryMethyl	Infant	RfD	6.32E-09	0.00E+00	0.00E+00	6.32E-09	3.16E-05	0.00E+00	0.00E+00	3.16E-05
URBN	Project	MercuryMethyl	Infant	RfD	6.33E-09	0.00E+00	0.00E+00	6.33E-09	3.16E-05	0.00E+00	0.00E+00	3.16E-05
URBN	Closure	MercuryMethyl	Infant	RfD	6.33E-09	0.00E+00	0.00E+00	6.33E-09	3.16E-05	0.00E+00	0.00E+00	3.16E-05
URBN	Post Closure	MercuryMethyl	Infant	RfD	6.33E-09	0.00E+00	0.00E+00	6.33E-09	3.16E-05	0.00E+00	0.00E+00	3.16E-05
COMM	Base	MercuryMethyl	Infant	RfD	6.37E-09	0.00E+00	0.00E+00	6.37E-09	3.19E-05	0.00E+00	0.00E+00	3.19E-05
COMM	Project	MercuryMethyl	Infant	RfD	6.38E-09	0.00E+00	0.00E+00	6.38E-09	3.19E-05	0.00E+00	0.00E+00	3.19E-05
COMM	Closure	MercuryMethyl	Infant	RfD	6.38E-09	0.00E+00	0.00E+00	6.38E-09	3.19E-05	0.00E+00	0.00E+00	3.19E-05
COMM	Post Closure	MercuryMethyl	Infant	RfD	6.38E-09	0.00E+00	0.00E+00	6.38E-09	3.19E-05	0.00E+00	0.00E+00	3.19E-05
RESI	Base	MercuryMethyl	Toddler	RfD	6.76E-09	1.54E-07	6.54E-04	6.54E-04	3.38E-05	7.72E-04	3.27E+00	3.27E+00
RESI	Project	MercuryMethyl	Toddler	RfD	6.80E-09	1.46E-07	6.20E-04	6.20E-04	3.40E-05	7.29E-04	3.10E+00	3.10E+00
RESI	Closure	MercuryMethyl	Toddler	RfD	6.80E-09	1.46E-07	6.21E-04	6.21E-04	3.40E-05	7.30E-04	3.11E+00	3.11E+00
RESI	Post Closure	MercuryMethyl	Toddler	RfD	6.80E-09	1.40E-07	5.99E-04	6.00E-04	3.40E-05	7.02E-04	3.00E+00	3.00E+00
RECR	Base	MercuryMethyl	Toddler	RfD	6.76E-09	1.54E-07	3.04E-04	3.04E-04	3.38E-05	7.72E-04	1.52E+00	1.52E+00
RECR	Project	MercuryMethyl	Toddler	RfD	6.80E-09	1.46E-07	2.88E-04	2.88E-04	3.40E-05	7.29E-04	1.44E+00	1.44E+00
RECR	Closure	MercuryMethyl	Toddler	RfD	6.80E-09	1.46E-07	2.88E-04	2.88E-04	3.40E-05	7.30E-04	1.44E+00	1.44E+00
RECR	Post Closure	MercuryMethyl	Toddler	RfD	6.80E-09	1.40E-07	2.78E-04	2.78E-04	3.40E-05	7.02E-04	1.39E+00	1.39E+00
URBN	Base	MercuryMethyl	Toddler	RfD	6.76E-09	0.00E+00	6.09E-08	6.76E-08	3.38E-05	0.00E+00	3.04E-04	3.38E-04
URBN	Project	MercuryMethyl	Toddler	RfD	6.77E-09	0.00E+00	6.09E-08	6.76E-08	3.39E-05	0.00E+00	3.04E-04	3.38E-04
URBN	Closure	MercuryMethyl	Toddler	RfD	6.77E-09	0.00E+00	6.09E-08	6.76E-08	3.39E-05	0.00E+00	3.04E-04	3.38E-04
URBN	Post Closure	MercuryMethyl	Toddler	RfD	6.77E-09	0.00E+00	6.09E-08	6.76E-08	3.39E-05	0.00E+00	3.04E-04	3.38E-04
COMM	Base	MercuryMethyl	Toddler	RfD	6.86E-09	0.00E+00	0.00E+00	6.86E-09	3.43E-05	0.00E+00	0.00E+00	3.43E-05
COMM	Project	MercuryMethyl	Toddler	RfD	6.86E-09	0.00E+00	0.00E+00	6.86E-09	3.43E-05	0.00E+00	0.00E+00	3.43E-05
COMM	Closure	MercuryMethyl	Toddler	RfD	6.86E-09	0.00E+00	0.00E+00	6.86E-09	3.43E-05	0.00E+00	0.00E+00	3.43E-05
COMM	Post Closure	MercuryMethyl	Toddler	RfD	6.86E-09	0.00E+00	0.00E+00	6.86E-09	3.43E-05	0.00E+00	0.00E+00	3.43E-05
RESI	Base	MercuryMethyl	Child	RfD	2.84E-09	1.00E-07	5.33E-04	5.33E-04	1.42E-05	5.02E-04	2.67E+00	2.67E+00
RESI	Project	MercuryMethyl	Child	RfD	2.86E-09	9.48E-08	5.05E-04	5.05E-04	1.43E-05	4.74E-04	2.53E+00	2.53E+00
RESI	Closure	MercuryMethyl	Child	RfD	2.86E-09	9.50E-08	5.06E-04	5.06E-04	1.43E-05	4.75E-04	2.53E+00	2.53E+00
RESI	Post Closure	MercuryMethyl	Child	RfD	2.86E-09	9.14E-08	4.88E-04	4.88E-04	1.43E-05	4.57E-04	2.44E+00	2.44E+00
RECR	Base	MercuryMethyl	Child	RfD	2.84E-09	1.00E-07	2.16E-04	2.16E-04	1.42E-05	5.02E-04	1.08E+00	1.08E+00
RECR	Project	MercuryMethyl	Child	RfD	2.86E-09	9.48E-08	2.05E-04	2.05E-04	1.43E-05	4.74E-04	1.02E+00	1.02E+00
RECR	Closure	MercuryMethyl	Child	RfD	2.86E-09	9.50E-08	2.05E-04	2.05E-04	1.43E-05	4.75E-04	1.02E+00	1.02E+00
RECR	Post Closure	MercuryMethyl	Child	RfD	2.86E-09	9.14E-08	1.97E-04	1.97E-04	1.43E-05	4.57E-04	9.87E-01	9.87E-01
URBN	Base	MercuryMethyl	Child	RfD	2.84E-09	0.00E+00	4.52E-08	4.80E-08	1.42E-05	0.00E+00	2.26E-04	2.40E-04

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
URBN	Project	MercuryMethyl	Child	RfD	2.84E-09	0.00E+00	4.52E-08	4.80E-08	1.42E-05	0.00E+00	2.26E-04	2.40E-04
URBN	Closure	MercuryMethyl	Child	RfD	2.84E-09	0.00E+00	4.52E-08	4.80E-08	1.42E-05	0.00E+00	2.26E-04	2.40E-04
URBN	Post Closure	MercuryMethyl	Child	RfD	2.84E-09	0.00E+00	4.52E-08	4.80E-08	1.42E-05	0.00E+00	2.26E-04	2.40E-04
COMM	Base	MercuryMethyl	Child	RfD	2.92E-09	0.00E+00	0.00E+00	2.92E-09	1.46E-05	0.00E+00	0.00E+00	1.46E-05
COMM	Project	MercuryMethyl	Child	RfD	2.92E-09	0.00E+00	0.00E+00	2.92E-09	1.46E-05	0.00E+00	0.00E+00	1.46E-05
COMM	Closure	MercuryMethyl	Child	RfD	2.92E-09	0.00E+00	0.00E+00	2.92E-09	1.46E-05	0.00E+00	0.00E+00	1.46E-05
COMM	Post Closure	MercuryMethyl	Child	RfD	2.92E-09	0.00E+00	0.00E+00	2.92E-09	1.46E-05	0.00E+00	0.00E+00	1.46E-05
RESI	Base	MercuryMethyl	Adolescent	RfD	2.16E-09	6.69E-08	3.58E-04	3.58E-04	1.08E-05	3.34E-04	1.79E+00	1.79E+00
RESI	Project	MercuryMethyl	Adolescent	RfD	2.17E-09	6.31E-08	3.39E-04	3.39E-04	1.09E-05	3.15E-04	1.70E+00	1.70E+00
RESI	Closure	MercuryMethyl	Adolescent	RfD	2.17E-09	6.32E-08	3.40E-04	3.40E-04	1.09E-05	3.16E-04	1.70E+00	1.70E+00
RESI	Post Closure	MercuryMethyl	Adolescent	RfD	2.17E-09	6.08E-08	3.28E-04	3.28E-04	1.09E-05	3.04E-04	1.64E+00	1.64E+00
RECR	Base	MercuryMethyl	Adolescent	RfD	2.16E-09	6.69E-08	1.85E-04	1.85E-04	1.08E-05	3.34E-04	9.27E-01	9.27E-01
RECR	Project	MercuryMethyl	Adolescent	RfD	2.17E-09	6.31E-08	1.75E-04	1.75E-04	1.09E-05	3.15E-04	8.76E-01	8.77E-01
RECR	Closure	MercuryMethyl	Adolescent	RfD	2.17E-09	6.32E-08	1.76E-04	1.76E-04	1.09E-05	3.16E-04	8.78E-01	8.78E-01
RECR	Post Closure	MercuryMethyl	Adolescent	RfD	2.17E-09	6.08E-08	1.69E-04	1.69E-04	1.09E-05	3.04E-04	8.45E-01	8.46E-01
URBN	Base	MercuryMethyl	Adolescent	RfD	2.16E-09	0.00E+00	3.17E-08	3.39E-08	1.08E-05	0.00E+00	1.59E-04	1.69E-04
URBN	Project	MercuryMethyl	Adolescent	RfD	2.16E-09	0.00E+00	3.17E-08	3.39E-08	1.08E-05	0.00E+00	1.59E-04	1.70E-04
URBN	Closure	MercuryMethyl	Adolescent	RfD	2.16E-09	0.00E+00	3.17E-08	3.39E-08	1.08E-05	0.00E+00	1.59E-04	1.70E-04
URBN	Post Closure	MercuryMethyl	Adolescent	RfD	2.16E-09	0.00E+00	3.17E-08	3.39E-08	1.08E-05	0.00E+00	1.59E-04	1.70E-04
COMM	Base	MercuryMethyl	Adolescent	RfD	2.21E-09	0.00E+00	0.00E+00	2.21E-09	1.10E-05	0.00E+00	0.00E+00	1.10E-05
COMM	Project	MercuryMethyl	Adolescent	RfD	2.21E-09	0.00E+00	0.00E+00	2.21E-09	1.11E-05	0.00E+00	0.00E+00	1.11E-05
COMM	Closure	MercuryMethyl	Adolescent	RfD	2.21E-09	0.00E+00	0.00E+00	2.21E-09	1.11E-05	0.00E+00	0.00E+00	1.11E-05
COMM	Post Closure	MercuryMethyl	Adolescent	RfD	2.21E-09	0.00E+00	0.00E+00	2.21E-09	1.11E-05	0.00E+00	0.00E+00	1.11E-05
RESI	Base	MercuryMethyl	Adult	RfD	2.03E-09	8.19E-08	3.03E-04	3.04E-04	1.01E-05	4.10E-04	1.52E+00	1.52E+00
RESI	Project	MercuryMethyl	Adult	RfD	2.04E-09	7.73E-08	2.88E-04	2.88E-04	1.02E-05	3.86E-04	1.44E+00	1.44E+00
RESI	Closure	MercuryMethyl	Adult	RfD	2.04E-09	7.74E-08	2.88E-04	2.88E-04	1.02E-05	3.87E-04	1.44E+00	1.44E+00
RESI	Post Closure	MercuryMethyl	Adult	RfD	2.04E-09	7.45E-08	2.78E-04	2.78E-04	1.02E-05	3.72E-04	1.39E+00	1.39E+00
RECR	Base	MercuryMethyl	Adult	RfD	2.03E-09	8.19E-08	1.57E-04	1.57E-04	1.01E-05	4.10E-04	7.84E-01	7.84E-01
RECR	Project	MercuryMethyl	Adult	RfD	2.04E-09	7.73E-08	1.48E-04	1.48E-04	1.02E-05	3.86E-04	7.41E-01	7.42E-01
RECR	Closure	MercuryMethyl	Adult	RfD	2.04E-09	7.74E-08	1.48E-04	1.49E-04	1.02E-05	3.87E-04	7.42E-01	7.43E-01
RECR	Post Closure	MercuryMethyl	Adult	RfD	2.04E-09	7.45E-08	1.43E-04	1.43E-04	1.02E-05	3.72E-04	7.15E-01	7.15E-01
URBN	Base	MercuryMethyl	Adult	RfD	2.03E-09	0.00E+00	2.81E-08	3.01E-08	1.01E-05	0.00E+00	1.41E-04	1.51E-04
URBN	Project	MercuryMethyl	Adult	RfD	2.03E-09	0.00E+00	2.81E-08	3.01E-08	1.02E-05	0.00E+00	1.41E-04	1.51E-04
URBN	Closure	MercuryMethyl	Adult	RfD	2.03E-09	0.00E+00	2.81E-08	3.01E-08	1.02E-05	0.00E+00	1.41E-04	1.51E-04
URBN	Post Closure	MercuryMethyl	Adult	RfD	2.03E-09	0.00E+00	2.81E-08	3.01E-08	1.02E-05	0.00E+00	1.41E-04	1.51E-04
COMM	Base	MercuryMethyl	Adult	RfD	2.07E-09	0.00E+00	0.00E+00	2.07E-09	1.04E-05	0.00E+00	0.00E+00	1.04E-05
COMM	Project	MercuryMethyl	Adult	RfD	2.07E-09	0.00E+00	0.00E+00	2.07E-09	1.04E-05	0.00E+00	0.00E+00	1.04E-05
COMM	Closure	MercuryMethyl	Adult	RfD	2.07E-09	0.00E+00	0.00E+00	2.07E-09	1.04E-05	0.00E+00	0.00E+00	1.04E-05

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
COMM	Post Closure	MercuryMethyl	Adult	RfD	2.07E-09	0.00E+00	0.00E+00	2.07E-09	1.04E-05	0.00E+00	0.00E+00	1.04E-05
RESI	Project-Base	MercuryMethyl	Infant	RfD	3.81E-11	0.00E+00	0.00E+00	3.81E-11	1.90E-07	0.00E+00	0.00E+00	1.90E-07
RESI	Closure-Base	MercuryMethyl	Infant	RfD	3.81E-11	0.00E+00	0.00E+00	3.81E-11	1.90E-07	0.00E+00	0.00E+00	1.90E-07
RESI	Post Closure-Base	MercuryMethyl	Infant	RfD	3.81E-11	0.00E+00	0.00E+00	3.81E-11	1.90E-07	0.00E+00	0.00E+00	1.90E-07
RECR	Project-Base	MercuryMethyl	Infant	RfD	3.81E-11	0.00E+00	0.00E+00	3.81E-11	1.90E-07	0.00E+00	0.00E+00	1.90E-07
RECR	Closure-Base	MercuryMethyl	Infant	RfD	3.81E-11	0.00E+00	0.00E+00	3.81E-11	1.90E-07	0.00E+00	0.00E+00	1.90E-07
RECR	Post Closure-Base	MercuryMethyl	Infant	RfD	3.81E-11	0.00E+00	0.00E+00	3.81E-11	1.90E-07	0.00E+00	0.00E+00	1.90E-07
URBN	Project-Base	MercuryMethyl	Infant	RfD	6.59E-12	0.00E+00	0.00E+00	6.59E-12	3.30E-08	0.00E+00	0.00E+00	3.30E-08
URBN	Closure-Base	MercuryMethyl	Infant	RfD	6.59E-12	0.00E+00	0.00E+00	6.59E-12	3.30E-08	0.00E+00	0.00E+00	3.30E-08
URBN	Post Closure-Base	MercuryMethyl	Infant	RfD	6.59E-12	0.00E+00	0.00E+00	6.59E-12	3.30E-08	0.00E+00	0.00E+00	3.30E-08
COMM	Project-Base	MercuryMethyl	Infant	RfD	5.55E-12	0.00E+00	0.00E+00	5.55E-12	2.78E-08	0.00E+00	0.00E+00	2.78E-08
COMM	Closure-Base	MercuryMethyl	Infant	RfD	5.55E-12	0.00E+00	0.00E+00	5.55E-12	2.78E-08	0.00E+00	0.00E+00	2.78E-08
COMM	Post Closure-Base	MercuryMethyl	Infant	RfD	5.55E-12	0.00E+00	0.00E+00	5.55E-12	2.78E-08	0.00E+00	0.00E+00	2.78E-08
RESI	Project-Base	MercuryMethyl	Toddler	RfD	4.08E-11	0.00E+00	5.09E-07	5.09E-07	2.04E-07	0.00E+00	2.55E-03	2.55E-03
RESI	Closure-Base	MercuryMethyl	Toddler	RfD	4.08E-11	0.00E+00	5.09E-07	5.09E-07	2.04E-07	0.00E+00	2.55E-03	2.55E-03
RESI	Post Closure-Base	MercuryMethyl	Toddler	RfD	4.08E-11	0.00E+00	5.09E-07	5.09E-07	2.04E-07	0.00E+00	2.55E-03	2.55E-03
RECR	Project-Base	MercuryMethyl	Toddler	RfD	4.08E-11	0.00E+00	1.02E-07	1.02E-07	2.04E-07	0.00E+00	5.09E-04	5.10E-04
RECR	Closure-Base	MercuryMethyl	Toddler	RfD	4.08E-11	0.00E+00	1.02E-07	1.02E-07	2.04E-07	0.00E+00	5.09E-04	5.10E-04
RECR	Post Closure-Base	MercuryMethyl	Toddler	RfD	4.08E-11	0.00E+00	1.02E-07	1.02E-07	2.04E-07	0.00E+00	5.09E-04	5.10E-04
URBN	Project-Base	MercuryMethyl	Toddler	RfD	7.05E-12	0.00E+00	7.12E-12	1.42E-11	3.53E-08	0.00E+00	3.56E-08	7.09E-08
URBN	Closure-Base	MercuryMethyl	Toddler	RfD	7.05E-12	0.00E+00	7.12E-12	1.42E-11	3.53E-08	0.00E+00	3.56E-08	7.09E-08
URBN	Post Closure-Base	MercuryMethyl	Toddler	RfD	7.05E-12	0.00E+00	7.12E-12	1.42E-11	3.53E-08	0.00E+00	3.56E-08	7.09E-08
COMM	Project-Base	MercuryMethyl	Toddler	RfD	5.98E-12	0.00E+00	0.00E+00	5.98E-12	2.99E-08	0.00E+00	0.00E+00	2.99E-08
COMM	Closure-Base	MercuryMethyl	Toddler	RfD	5.98E-12	0.00E+00	0.00E+00	5.98E-12	2.99E-08	0.00E+00	0.00E+00	2.99E-08
COMM	Post Closure-Base	MercuryMethyl	Toddler	RfD	5.98E-12	0.00E+00	0.00E+00	5.98E-12	2.99E-08	0.00E+00	0.00E+00	2.99E-08
RESI	Project-Base	MercuryMethyl	Child	RfD	1.71E-11	0.00E+00	3.80E-07	3.80E-07	8.55E-08	0.00E+00	1.90E-03	1.90E-03
RESI	Closure-Base	MercuryMethyl	Child	RfD	1.71E-11	0.00E+00	3.80E-07	3.80E-07	8.55E-08	0.00E+00	1.90E-03	1.90E-03
RESI	Post Closure-Base	MercuryMethyl	Child	RfD	1.71E-11	0.00E+00	3.80E-07	3.80E-07	8.55E-08	0.00E+00	1.90E-03	1.90E-03
RECR	Project-Base	MercuryMethyl	Child	RfD	1.71E-11	0.00E+00	7.60E-08	7.60E-08	8.55E-08	0.00E+00	3.80E-04	3.80E-04
RECR	Closure-Base	MercuryMethyl	Child	RfD	1.71E-11	0.00E+00	7.60E-08	7.60E-08	8.55E-08	0.00E+00	3.80E-04	3.80E-04
RECR	Post Closure-Base	MercuryMethyl	Child	RfD	1.71E-11	0.00E+00	7.60E-08	7.60E-08	8.55E-08	0.00E+00	3.80E-04	3.80E-04
URBN	Project-Base	MercuryMethyl	Child	RfD	2.96E-12	0.00E+00	5.28E-12	8.24E-12	1.48E-08	0.00E+00	2.64E-08	4.12E-08
URBN	Closure-Base	MercuryMethyl	Child	RfD	2.96E-12	0.00E+00	5.28E-12	8.24E-12	1.48E-08	0.00E+00	2.64E-08	4.12E-08
URBN	Post Closure-Base	MercuryMethyl	Child	RfD	2.96E-12	0.00E+00	5.28E-12	8.24E-12	1.48E-08	0.00E+00	2.64E-08	4.12E-08
COMM	Project-Base	MercuryMethyl	Child	RfD	2.55E-12	0.00E+00	0.00E+00	2.55E-12	1.27E-08	0.00E+00	0.00E+00	1.27E-08
COMM	Closure-Base	MercuryMethyl	Child	RfD	2.55E-12	0.00E+00	0.00E+00	2.55E-12	1.27E-08	0.00E+00	0.00E+00	1.27E-08
COMM	Post Closure-Base	MercuryMethyl	Child	RfD	2.55E-12	0.00E+00	0.00E+00	2.55E-12	1.27E-08	0.00E+00	0.00E+00	1.27E-08
RESI	Project-Base	MercuryMethyl	Adolescent	RfD	1.30E-11	0.00E+00	3.32E-07	3.32E-07	6.51E-08	0.00E+00	1.66E-03	1.66E-03

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Closure-Base	MercuryMethyl	Adolescent	RfD	1.30E-11	0.00E+00	3.32E-07	3.32E-07	6.51E-08	0.00E+00	1.66E-03	1.66E-03
RESI	Post Closure-Base	MercuryMethyl	Adolescent	RfD	1.30E-11	0.00E+00	3.32E-07	3.32E-07	6.51E-08	0.00E+00	1.66E-03	1.66E-03
RECR	Project-Base	MercuryMethyl	Adolescent	RfD	1.30E-11	0.00E+00	6.63E-08	6.63E-08	6.51E-08	0.00E+00	3.32E-04	3.32E-04
RECR	Closure-Base	MercuryMethyl	Adolescent	RfD	1.30E-11	0.00E+00	6.63E-08	6.63E-08	6.51E-08	0.00E+00	3.32E-04	3.32E-04
RECR	Post Closure-Base	MercuryMethyl	Adolescent	RfD	1.30E-11	0.00E+00	6.63E-08	6.63E-08	6.51E-08	0.00E+00	3.32E-04	3.32E-04
URBN	Project-Base	MercuryMethyl	Adolescent	RfD	2.25E-12	0.00E+00	3.69E-12	5.95E-12	1.13E-08	0.00E+00	1.85E-08	2.97E-08
URBN	Closure-Base	MercuryMethyl	Adolescent	RfD	2.25E-12	0.00E+00	3.69E-12	5.95E-12	1.13E-08	0.00E+00	1.85E-08	2.97E-08
URBN	Post Closure-Base	MercuryMethyl	Adolescent	RfD	2.25E-12	0.00E+00	3.69E-12	5.95E-12	1.13E-08	0.00E+00	1.85E-08	2.97E-08
COMM	Project-Base	MercuryMethyl	Adolescent	RfD	1.93E-12	0.00E+00	0.00E+00	1.93E-12	9.63E-09	0.00E+00	0.00E+00	9.63E-09
COMM	Closure-Base	MercuryMethyl	Adolescent	RfD	1.93E-12	0.00E+00	0.00E+00	1.93E-12	9.63E-09	0.00E+00	0.00E+00	9.63E-09
COMM	Post Closure-Base	MercuryMethyl	Adolescent	RfD	1.93E-12	0.00E+00	0.00E+00	1.93E-12	9.63E-09	0.00E+00	0.00E+00	9.63E-09
RESI	Project-Base	MercuryMethyl	Adult	RfD	1.22E-11	0.00E+00	3.07E-07	3.07E-07	6.11E-08	0.00E+00	1.54E-03	1.54E-03
RESI	Closure-Base	MercuryMethyl	Adult	RfD	1.22E-11	0.00E+00	3.07E-07	3.07E-07	6.11E-08	0.00E+00	1.54E-03	1.54E-03
RESI	Post Closure-Base	MercuryMethyl	Adult	RfD	1.22E-11	0.00E+00	3.07E-07	3.07E-07	6.11E-08	0.00E+00	1.54E-03	1.54E-03
RECR	Project-Base	MercuryMethyl	Adult	RfD	1.22E-11	0.00E+00	6.14E-08	6.14E-08	6.11E-08	0.00E+00	3.07E-04	3.07E-04
RECR	Closure-Base	MercuryMethyl	Adult	RfD	1.22E-11	0.00E+00	6.14E-08	6.14E-08	6.11E-08	0.00E+00	3.07E-04	3.07E-04
RECR	Post Closure-Base	MercuryMethyl	Adult	RfD	1.22E-11	0.00E+00	6.14E-08	6.14E-08	6.11E-08	0.00E+00	3.07E-04	3.07E-04
URBN	Project-Base	MercuryMethyl	Adult	RfD	2.12E-12	0.00E+00	3.30E-12	5.42E-12	1.06E-08	0.00E+00	1.65E-08	2.71E-08
URBN	Closure-Base	MercuryMethyl	Adult	RfD	2.12E-12	0.00E+00	3.30E-12	5.42E-12	1.06E-08	0.00E+00	1.65E-08	2.71E-08
URBN	Post Closure-Base	MercuryMethyl	Adult	RfD	2.12E-12	0.00E+00	3.30E-12	5.42E-12	1.06E-08	0.00E+00	1.65E-08	2.71E-08
COMM	Project-Base	MercuryMethyl	Adult	RfD	1.81E-12	0.00E+00	0.00E+00	1.81E-12	9.03E-09	0.00E+00	0.00E+00	9.03E-09
COMM	Closure-Base	MercuryMethyl	Adult	RfD	1.81E-12	0.00E+00	0.00E+00	1.81E-12	9.03E-09	0.00E+00	0.00E+00	9.03E-09
COMM	Post Closure-Base	MercuryMethyl	Adult	RfD	1.81E-12	0.00E+00	0.00E+00	1.81E-12	9.03E-09	0.00E+00	0.00E+00	9.03E-09
Arsenic_Cancer												
RESI	Base	Arsenic_Cancer	Infant	SF	4.09E-06	9.29E-06	0.00E+00	1.34E-05	7.35E-06	1.67E-05	0.00E+00	2.41E-05
RESI	Project	Arsenic_Cancer	Infant	SF	4.20E-06	1.67E-05	0.00E+00	2.09E-05	7.56E-06	3.00E-05	0.00E+00	3.76E-05
RESI	Closure	Arsenic_Cancer	Infant	SF	4.20E-06	1.30E-05	0.00E+00	1.72E-05	7.56E-06	2.34E-05	0.00E+00	3.09E-05
RESI	Post Closure	Arsenic_Cancer	Infant	SF	4.20E-06	7.38E-06	0.00E+00	1.16E-05	7.56E-06	1.33E-05	0.00E+00	2.08E-05
RECR	Base	Arsenic_Cancer	Infant	SF	4.09E-06	9.29E-06	0.00E+00	1.34E-05	7.35E-06	1.67E-05	0.00E+00	2.41E-05
RECR	Project	Arsenic_Cancer	Infant	SF	4.20E-06	1.67E-05	0.00E+00	2.09E-05	7.56E-06	3.00E-05	0.00E+00	3.76E-05
RECR	Closure	Arsenic_Cancer	Infant	SF	4.20E-06	1.30E-05	0.00E+00	1.72E-05	7.56E-06	2.34E-05	0.00E+00	3.09E-05
RECR	Post Closure	Arsenic_Cancer	Infant	SF	4.20E-06	7.38E-06	0.00E+00	1.16E-05	7.56E-06	1.33E-05	0.00E+00	2.08E-05
URBN	Base	Arsenic_Cancer	Infant	SF	4.09E-06	0.00E+00	0.00E+00	4.09E-06	7.35E-06	0.00E+00	0.00E+00	7.35E-06
URBN	Project	Arsenic_Cancer	Infant	SF	4.11E-06	0.00E+00	0.00E+00	4.11E-06	7.39E-06	0.00E+00	0.00E+00	7.39E-06
URBN	Closure	Arsenic_Cancer	Infant	SF	4.11E-06	0.00E+00	0.00E+00	4.11E-06	7.39E-06	0.00E+00	0.00E+00	7.39E-06
URBN	Post Closure	Arsenic_Cancer	Infant	SF	4.11E-06	0.00E+00	0.00E+00	4.11E-06	7.39E-06	0.00E+00	0.00E+00	7.39E-06
COMM	Base	Arsenic_Cancer	Infant	SF	4.19E-06	0.00E+00	0.00E+00	4.19E-06	7.54E-06	0.00E+00	0.00E+00	7.54E-06

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
COMM	Project	Arsenic_Cancer	Infant	SF	4.21E-06	0.00E+00	0.00E+00	4.21E-06	7.57E-06	0.00E+00	0.00E+00	7.57E-06
COMM	Closure	Arsenic_Cancer	Infant	SF	4.21E-06	0.00E+00	0.00E+00	4.21E-06	7.57E-06	0.00E+00	0.00E+00	7.57E-06
COMM	Post Closure	Arsenic_Cancer	Infant	SF	4.21E-06	0.00E+00	0.00E+00	4.21E-06	7.57E-06	0.00E+00	0.00E+00	7.57E-06
RESI	Base	Arsenic_Cancer	Toddler	SF	7.76E-06	1.08E-05	1.07E-05	2.92E-05	1.40E-05	1.94E-05	1.92E-05	5.26E-05
RESI	Project	Arsenic_Cancer	Toddler	SF	7.98E-06	1.93E-05	1.51E-05	4.24E-05	1.44E-05	3.48E-05	2.71E-05	7.63E-05
RESI	Closure	Arsenic_Cancer	Toddler	SF	7.98E-06	1.51E-05	1.34E-05	3.64E-05	1.44E-05	2.71E-05	2.41E-05	6.56E-05
RESI	Post Closure	Arsenic_Cancer	Toddler	SF	7.98E-06	8.56E-06	1.25E-05	2.90E-05	1.44E-05	1.54E-05	2.25E-05	5.23E-05
RECR	Base	Arsenic_Cancer	Toddler	SF	7.76E-06	1.08E-05	3.02E-06	2.16E-05	1.40E-05	1.94E-05	5.43E-06	3.88E-05
RECR	Project	Arsenic_Cancer	Toddler	SF	7.98E-06	1.93E-05	4.59E-06	3.19E-05	1.44E-05	3.48E-05	8.27E-06	5.74E-05
RECR	Closure	Arsenic_Cancer	Toddler	SF	7.98E-06	1.51E-05	3.91E-06	2.70E-05	1.44E-05	2.71E-05	7.04E-06	4.85E-05
RECR	Post Closure	Arsenic_Cancer	Toddler	SF	7.98E-06	8.56E-06	3.20E-06	1.97E-05	1.44E-05	1.54E-05	5.76E-06	3.55E-05
URBN	Base	Arsenic_Cancer	Toddler	SF	7.76E-06	0.00E+00	1.04E-06	8.80E-06	1.40E-05	0.00E+00	1.87E-06	1.58E-05
URBN	Project	Arsenic_Cancer	Toddler	SF	7.80E-06	0.00E+00	1.04E-06	8.84E-06	1.40E-05	0.00E+00	1.88E-06	1.59E-05
URBN	Closure	Arsenic_Cancer	Toddler	SF	7.80E-06	0.00E+00	1.04E-06	8.84E-06	1.40E-05	0.00E+00	1.88E-06	1.59E-05
URBN	Post Closure	Arsenic_Cancer	Toddler	SF	7.80E-06	0.00E+00	1.04E-06	8.84E-06	1.40E-05	0.00E+00	1.88E-06	1.59E-05
COMM	Base	Arsenic_Cancer	Toddler	SF	7.95E-06	0.00E+00	0.00E+00	7.95E-06	1.43E-05	0.00E+00	0.00E+00	1.43E-05
COMM	Project	Arsenic_Cancer	Toddler	SF	7.99E-06	0.00E+00	0.00E+00	7.99E-06	1.44E-05	0.00E+00	0.00E+00	1.44E-05
COMM	Closure	Arsenic_Cancer	Toddler	SF	7.99E-06	0.00E+00	0.00E+00	7.99E-06	1.44E-05	0.00E+00	0.00E+00	1.44E-05
COMM	Post Closure	Arsenic_Cancer	Toddler	SF	7.99E-06	0.00E+00	0.00E+00	7.99E-06	1.44E-05	0.00E+00	0.00E+00	1.44E-05
RESI	Base	Arsenic_Cancer	Child	SF	1.10E-06	7.01E-06	8.10E-06	1.62E-05	1.98E-06	1.26E-05	1.46E-05	2.92E-05
RESI	Project	Arsenic_Cancer	Child	SF	1.13E-06	1.26E-05	1.14E-05	2.51E-05	2.03E-06	2.26E-05	2.05E-05	4.52E-05
RESI	Closure	Arsenic_Cancer	Child	SF	1.13E-06	9.80E-06	1.01E-05	2.10E-05	2.03E-06	1.76E-05	1.82E-05	3.79E-05
RESI	Post Closure	Arsenic_Cancer	Child	SF	1.13E-06	5.57E-06	9.17E-06	1.59E-05	2.03E-06	1.00E-05	1.65E-05	2.86E-05
RECR	Base	Arsenic_Cancer	Child	SF	1.10E-06	7.01E-06	2.18E-06	1.03E-05	1.98E-06	1.26E-05	3.92E-06	1.85E-05
RECR	Project	Arsenic_Cancer	Child	SF	1.13E-06	1.26E-05	3.28E-06	1.70E-05	2.03E-06	2.26E-05	5.90E-06	3.06E-05
RECR	Closure	Arsenic_Cancer	Child	SF	1.13E-06	9.80E-06	2.80E-06	1.37E-05	2.03E-06	1.76E-05	5.04E-06	2.47E-05
RECR	Post Closure	Arsenic_Cancer	Child	SF	1.13E-06	5.57E-06	2.28E-06	8.97E-06	2.03E-06	1.00E-05	4.10E-06	1.61E-05
URBN	Base	Arsenic_Cancer	Child	SF	1.10E-06	0.00E+00	7.80E-07	1.88E-06	1.98E-06	0.00E+00	1.40E-06	3.38E-06
URBN	Project	Arsenic_Cancer	Child	SF	1.10E-06	0.00E+00	7.84E-07	1.89E-06	1.99E-06	0.00E+00	1.41E-06	3.40E-06
URBN	Closure	Arsenic_Cancer	Child	SF	1.10E-06	0.00E+00	7.84E-07	1.89E-06	1.99E-06	0.00E+00	1.41E-06	3.40E-06
URBN	Post Closure	Arsenic_Cancer	Child	SF	1.10E-06	0.00E+00	7.84E-07	1.89E-06	1.99E-06	0.00E+00	1.41E-06	3.40E-06
COMM	Base	Arsenic_Cancer	Child	SF	1.27E-06	0.00E+00	0.00E+00	1.27E-06	2.28E-06	0.00E+00	0.00E+00	2.28E-06
COMM	Project	Arsenic_Cancer	Child	SF	1.27E-06	0.00E+00	0.00E+00	1.27E-06	2.29E-06	0.00E+00	0.00E+00	2.29E-06
COMM	Closure	Arsenic_Cancer	Child	SF	1.27E-06	0.00E+00	0.00E+00	1.27E-06	2.29E-06	0.00E+00	0.00E+00	2.29E-06
COMM	Post Closure	Arsenic_Cancer	Child	SF	1.27E-06	0.00E+00	0.00E+00	1.27E-06	2.29E-06	0.00E+00	0.00E+00	2.29E-06
RESI	Base	Arsenic_Cancer	Adolescent	SF	6.42E-07	4.67E-06	5.72E-06	1.10E-05	1.16E-06	8.40E-06	1.03E-05	1.98E-05
RESI	Project	Arsenic_Cancer	Adolescent	SF	6.60E-07	8.37E-06	7.94E-06	1.70E-05	1.19E-06	1.51E-05	1.43E-05	3.06E-05
RESI	Closure	Arsenic_Cancer	Adolescent	SF	6.60E-07	6.52E-06	7.08E-06	1.43E-05	1.19E-06	1.17E-05	1.27E-05	2.57E-05

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
RESI	Post Closure	Arsenic_Cancer	Adolescent	SF	6.60E-07	3.70E-06	6.47E-06	1.08E-05	1.19E-06	6.67E-06	1.17E-05	1.95E-05
RECR	Base	Arsenic_Cancer	Adolescent	SF	6.42E-07	4.67E-06	1.72E-06	7.03E-06	1.16E-06	8.40E-06	3.10E-06	1.27E-05
RECR	Project	Arsenic_Cancer	Adolescent	SF	6.60E-07	8.37E-06	2.62E-06	1.17E-05	1.19E-06	1.51E-05	4.72E-06	2.10E-05
RECR	Closure	Arsenic_Cancer	Adolescent	SF	6.60E-07	6.52E-06	2.22E-06	9.40E-06	1.19E-06	1.17E-05	4.00E-06	1.69E-05
RECR	Post Closure	Arsenic_Cancer	Adolescent	SF	6.60E-07	3.70E-06	1.75E-06	6.12E-06	1.19E-06	6.67E-06	3.15E-06	1.10E-05
URBN	Base	Arsenic_Cancer	Adolescent	SF	6.42E-07	0.00E+00	5.69E-07	1.21E-06	1.16E-06	0.00E+00	1.02E-06	2.18E-06
URBN	Project	Arsenic_Cancer	Adolescent	SF	6.45E-07	0.00E+00	5.72E-07	1.22E-06	1.16E-06	0.00E+00	1.03E-06	2.19E-06
URBN	Closure	Arsenic_Cancer	Adolescent	SF	6.45E-07	0.00E+00	5.72E-07	1.22E-06	1.16E-06	0.00E+00	1.03E-06	2.19E-06
URBN	Post Closure	Arsenic_Cancer	Adolescent	SF	6.45E-07	0.00E+00	5.72E-07	1.22E-06	1.16E-06	0.00E+00	1.03E-06	2.19E-06
COMM	Base	Arsenic_Cancer	Adolescent	SF	7.44E-07	0.00E+00	0.00E+00	7.44E-07	1.34E-06	0.00E+00	0.00E+00	1.34E-06
COMM	Project	Arsenic_Cancer	Adolescent	SF	7.47E-07	0.00E+00	0.00E+00	7.47E-07	1.34E-06	0.00E+00	0.00E+00	1.34E-06
COMM	Closure	Arsenic_Cancer	Adolescent	SF	7.47E-07	0.00E+00	0.00E+00	7.47E-07	1.34E-06	0.00E+00	0.00E+00	1.34E-06
COMM	Post Closure	Arsenic_Cancer	Adolescent	SF	7.47E-07	0.00E+00	0.00E+00	7.47E-07	1.34E-06	0.00E+00	0.00E+00	1.34E-06
RESI	Base	Arsenic_Cancer	Adult	SF	5.55E-07	5.72E-06	4.78E-06	1.11E-05	9.99E-07	1.03E-05	8.61E-06	1.99E-05
RESI	Project	Arsenic_Cancer	Adult	SF	5.71E-07	1.03E-05	6.70E-06	1.75E-05	1.03E-06	1.85E-05	1.21E-05	3.16E-05
RESI	Closure	Arsenic_Cancer	Adult	SF	5.71E-07	7.99E-06	5.97E-06	1.45E-05	1.03E-06	1.44E-05	1.07E-05	2.61E-05
RESI	Post Closure	Arsenic_Cancer	Adult	SF	5.71E-07	4.54E-06	5.47E-06	1.06E-05	1.03E-06	8.17E-06	9.84E-06	1.90E-05
RECR	Base	Arsenic_Cancer	Adult	SF	5.55E-07	5.72E-06	1.44E-06	7.72E-06	9.99E-07	1.03E-05	2.60E-06	1.39E-05
RECR	Project	Arsenic_Cancer	Adult	SF	5.71E-07	1.03E-05	2.21E-06	1.30E-05	1.03E-06	1.85E-05	3.99E-06	2.35E-05
RECR	Closure	Arsenic_Cancer	Adult	SF	5.71E-07	7.99E-06	1.87E-06	1.04E-05	1.03E-06	1.44E-05	3.37E-06	1.88E-05
RECR	Post Closure	Arsenic_Cancer	Adult	SF	5.71E-07	4.54E-06	1.48E-06	6.59E-06	1.03E-06	8.17E-06	2.66E-06	1.19E-05
URBN	Base	Arsenic_Cancer	Adult	SF	5.55E-07	0.00E+00	4.62E-07	1.02E-06	9.99E-07	0.00E+00	8.32E-07	1.83E-06
URBN	Project	Arsenic_Cancer	Adult	SF	5.58E-07	0.00E+00	4.65E-07	1.02E-06	1.00E-06	0.00E+00	8.37E-07	1.84E-06
URBN	Closure	Arsenic_Cancer	Adult	SF	5.58E-07	0.00E+00	4.65E-07	1.02E-06	1.00E-06	0.00E+00	8.37E-07	1.84E-06
URBN	Post Closure	Arsenic_Cancer	Adult	SF	5.58E-07	0.00E+00	4.65E-07	1.02E-06	1.00E-06	0.00E+00	8.37E-07	1.84E-06
COMM	Base	Arsenic_Cancer	Adult	SF	6.46E-07	0.00E+00	0.00E+00	6.46E-07	1.16E-06	0.00E+00	0.00E+00	1.16E-06
COMM	Project	Arsenic_Cancer	Adult	SF	6.49E-07	0.00E+00	0.00E+00	6.49E-07	1.17E-06	0.00E+00	0.00E+00	1.17E-06
COMM	Closure	Arsenic_Cancer	Adult	SF	6.49E-07	0.00E+00	0.00E+00	6.49E-07	1.17E-06	0.00E+00	0.00E+00	1.17E-06
COMM	Post Closure	Arsenic_Cancer	Adult	SF	6.49E-07	0.00E+00	0.00E+00	6.49E-07	1.17E-06	0.00E+00	0.00E+00	1.17E-06
RESI	Project-Base	Arsenic_Cancer	Infant	SF	1.15E-07	7.38E-06	0.00E+00	7.49E-06	2.07E-07	1.33E-05	0.00E+00	1.35E-05
RESI	Closure-Base	Arsenic_Cancer	Infant	SF	1.15E-07	3.69E-06	0.00E+00	3.81E-06	2.07E-07	6.65E-06	0.00E+00	6.86E-06
RESI	Post Closure-Base	Arsenic_Cancer	Infant	SF	1.15E-07	0.00E+00	0.00E+00	1.15E-07	2.07E-07	0.00E+00	0.00E+00	2.07E-07
RECR	Project-Base	Arsenic_Cancer	Infant	SF	1.15E-07	7.38E-06	0.00E+00	7.49E-06	2.07E-07	1.33E-05	0.00E+00	1.35E-05
RECR	Closure-Base	Arsenic_Cancer	Infant	SF	1.15E-07	3.69E-06	0.00E+00	3.81E-06	2.07E-07	6.65E-06	0.00E+00	6.86E-06
RECR	Post Closure-Base	Arsenic_Cancer	Infant	SF	1.15E-07	0.00E+00	0.00E+00	1.15E-07	2.07E-07	0.00E+00	0.00E+00	2.07E-07
URBN	Project-Base	Arsenic_Cancer	Infant	SF	1.99E-08	0.00E+00	0.00E+00	1.99E-08	3.58E-08	0.00E+00	0.00E+00	3.58E-08
URBN	Closure-Base	Arsenic_Cancer	Infant	SF	1.99E-08	0.00E+00	0.00E+00	1.99E-08	3.58E-08	0.00E+00	0.00E+00	3.58E-08
URBN	Post Closure-Base	Arsenic_Cancer	Infant	SF	1.99E-08	0.00E+00	0.00E+00	1.99E-08	3.58E-08	0.00E+00	0.00E+00	3.58E-08

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
COMM	Project-Base	Arsenic_Cancer	Infant	SF	1.71E-08	0.00E+00	0.00E+00	1.71E-08	3.07E-08	0.00E+00	0.00E+00	3.07E-08
COMM	Closure-Base	Arsenic_Cancer	Infant	SF	1.71E-08	0.00E+00	0.00E+00	1.71E-08	3.07E-08	0.00E+00	0.00E+00	3.07E-08
COMM	Post Closure-Base	Arsenic_Cancer	Infant	SF	1.71E-08	0.00E+00	0.00E+00	1.71E-08	3.07E-08	0.00E+00	0.00E+00	3.07E-08
RESI	Project-Base	Arsenic_Cancer	Toddler	SF	2.19E-07	8.56E-06	4.23E-06	1.30E-05	3.93E-07	1.54E-05	7.61E-06	2.34E-05
RESI	Closure-Base	Arsenic_Cancer	Toddler	SF	2.19E-07	4.28E-06	2.81E-06	7.31E-06	3.93E-07	7.71E-06	5.05E-06	1.32E-05
RESI	Post Closure-Base	Arsenic_Cancer	Toddler	SF	2.19E-07	0.00E+00	2.52E-06	2.74E-06	3.93E-07	0.00E+00	4.54E-06	4.93E-06
RECR	Project-Base	Arsenic_Cancer	Toddler	SF	2.19E-07	8.56E-06	1.54E-06	1.03E-05	3.93E-07	1.54E-05	2.78E-06	1.86E-05
RECR	Closure-Base	Arsenic_Cancer	Toddler	SF	2.19E-07	4.28E-06	9.11E-07	5.41E-06	3.93E-07	7.71E-06	1.64E-06	9.75E-06
RECR	Post Closure-Base	Arsenic_Cancer	Toddler	SF	2.19E-07	0.00E+00	5.04E-07	7.23E-07	3.93E-07	0.00E+00	9.07E-07	1.30E-06
URBN	Project-Base	Arsenic_Cancer	Toddler	SF	3.78E-08	0.00E+00	6.08E-09	4.39E-08	6.81E-08	0.00E+00	1.09E-08	7.90E-08
URBN	Closure-Base	Arsenic_Cancer	Toddler	SF	3.78E-08	0.00E+00	6.08E-09	4.39E-08	6.81E-08	0.00E+00	1.09E-08	7.90E-08
URBN	Post Closure-Base	Arsenic_Cancer	Toddler	SF	3.78E-08	0.00E+00	6.08E-09	4.39E-08	6.81E-08	0.00E+00	1.09E-08	7.90E-08
COMM	Project-Base	Arsenic_Cancer	Toddler	SF	3.24E-08	0.00E+00	0.00E+00	3.24E-08	5.83E-08	0.00E+00	0.00E+00	5.83E-08
COMM	Closure-Base	Arsenic_Cancer	Toddler	SF	3.24E-08	0.00E+00	0.00E+00	3.24E-08	5.83E-08	0.00E+00	0.00E+00	5.83E-08
COMM	Post Closure-Base	Arsenic_Cancer	Toddler	SF	3.24E-08	0.00E+00	0.00E+00	3.24E-08	5.83E-08	0.00E+00	0.00E+00	5.83E-08
RESI	Project-Base	Arsenic_Cancer	Child	SF	3.09E-08	5.57E-06	3.20E-06	8.80E-06	5.56E-08	1.00E-05	5.76E-06	1.58E-05
RESI	Closure-Base	Arsenic_Cancer	Child	SF	3.09E-08	2.79E-06	2.06E-06	4.88E-06	5.56E-08	5.02E-06	3.71E-06	8.78E-06
RESI	Post Closure-Base	Arsenic_Cancer	Child	SF	3.09E-08	0.00E+00	1.65E-06	1.68E-06	5.56E-08	0.00E+00	2.96E-06	3.02E-06
RECR	Project-Base	Arsenic_Cancer	Child	SF	3.09E-08	5.57E-06	1.08E-06	6.68E-06	5.56E-08	1.00E-05	1.95E-06	1.20E-05
RECR	Closure-Base	Arsenic_Cancer	Child	SF	3.09E-08	2.79E-06	6.34E-07	3.45E-06	5.56E-08	5.02E-06	1.14E-06	6.21E-06
RECR	Post Closure-Base	Arsenic_Cancer	Child	SF	3.09E-08	0.00E+00	3.29E-07	3.60E-07	5.56E-08	0.00E+00	5.93E-07	6.48E-07
URBN	Project-Base	Arsenic_Cancer	Child	SF	5.35E-09	0.00E+00	4.47E-09	9.82E-09	9.63E-09	0.00E+00	8.04E-09	1.77E-08
URBN	Closure-Base	Arsenic_Cancer	Child	SF	5.35E-09	0.00E+00	4.47E-09	9.82E-09	9.63E-09	0.00E+00	8.04E-09	1.77E-08
URBN	Post Closure-Base	Arsenic_Cancer	Child	SF	5.35E-09	0.00E+00	4.47E-09	9.82E-09	9.63E-09	0.00E+00	8.04E-09	1.77E-08
COMM	Project-Base	Arsenic_Cancer	Child	SF	5.17E-09	0.00E+00	0.00E+00	5.17E-09	9.31E-09	0.00E+00	0.00E+00	9.31E-09
COMM	Closure-Base	Arsenic_Cancer	Child	SF	5.17E-09	0.00E+00	0.00E+00	5.17E-09	9.31E-09	0.00E+00	0.00E+00	9.31E-09
COMM	Post Closure-Base	Arsenic_Cancer	Child	SF	5.17E-09	0.00E+00	0.00E+00	5.17E-09	9.31E-09	0.00E+00	0.00E+00	9.31E-09
RESI	Project-Base	Arsenic_Cancer	Adolescent	SF	1.81E-08	3.70E-06	2.17E-06	5.90E-06	3.26E-08	6.67E-06	3.91E-06	1.06E-05
RESI	Closure-Base	Arsenic_Cancer	Adolescent	SF	1.81E-08	1.85E-06	1.42E-06	3.29E-06	3.26E-08	3.34E-06	2.55E-06	5.92E-06
RESI	Post Closure-Base	Arsenic_Cancer	Adolescent	SF	1.81E-08	0.00E+00	1.15E-06	1.17E-06	3.26E-08	0.00E+00	2.07E-06	2.10E-06
RECR	Project-Base	Arsenic_Cancer	Adolescent	SF	1.81E-08	3.70E-06	8.93E-07	4.62E-06	3.26E-08	6.67E-06	1.61E-06	8.31E-06
RECR	Closure-Base	Arsenic_Cancer	Adolescent	SF	1.81E-08	1.85E-06	5.13E-07	2.39E-06	3.26E-08	3.34E-06	9.23E-07	4.29E-06
RECR	Post Closure-Base	Arsenic_Cancer	Adolescent	SF	1.81E-08	0.00E+00	2.30E-07	2.48E-07	3.26E-08	0.00E+00	4.14E-07	4.46E-07
URBN	Project-Base	Arsenic_Cancer	Adolescent	SF	3.13E-09	0.00E+00	3.04E-09	6.17E-09	5.63E-09	0.00E+00	5.46E-09	1.11E-08
URBN	Closure-Base	Arsenic_Cancer	Adolescent	SF	3.13E-09	0.00E+00	3.04E-09	6.17E-09	5.63E-09	0.00E+00	5.46E-09	1.11E-08
URBN	Post Closure-Base	Arsenic_Cancer	Adolescent	SF	3.13E-09	0.00E+00	3.04E-09	6.17E-09	5.63E-09	0.00E+00	5.46E-09	1.11E-08
COMM	Project-Base	Arsenic_Cancer	Adolescent	SF	3.03E-09	0.00E+00	0.00E+00	3.03E-09	5.45E-09	0.00E+00	0.00E+00	5.45E-09
COMM	Closure-Base	Arsenic_Cancer	Adolescent	SF	3.03E-09	0.00E+00	0.00E+00	3.03E-09	5.45E-09	0.00E+00	0.00E+00	5.45E-09

Table 1-4: Exposure Doses and Risk Estimates by Media

					Exposure				HQ / ILCR			
					Soil	Water	Diet	Total	Soil	Water	Diet	Total
Receptor	Case	Chemical	Lifestage	TRV Type	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[mg/kg/day]	[Unitless]	[Unitless]	[Unitless]	[Unitless]
COMM	Post Closure-Base	Arsenic_Cancer	Adolescent	SF	3.03E-09	0.00E+00	0.00E+00	3.03E-09	5.45E-09	0.00E+00	0.00E+00	5.45E-09
RESI	Project-Base	Arsenic_Cancer	Adult	SF	1.56E-08	4.54E-06	1.88E-06	6.43E-06	2.81E-08	8.17E-06	3.38E-06	1.16E-05
RESI	Closure-Base	Arsenic_Cancer	Adult	SF	1.56E-08	2.27E-06	1.23E-06	3.52E-06	2.81E-08	4.09E-06	2.22E-06	6.33E-06
RESI	Post Closure-Base	Arsenic_Cancer	Adult	SF	1.56E-08	0.00E+00	1.02E-06	1.04E-06	2.81E-08	0.00E+00	1.84E-06	1.86E-06
RECR	Project-Base	Arsenic_Cancer	Adult	SF	1.56E-08	4.54E-06	7.62E-07	5.32E-06	2.81E-08	8.17E-06	1.37E-06	9.57E-06
RECR	Closure-Base	Arsenic_Cancer	Adult	SF	1.56E-08	2.27E-06	4.40E-07	2.73E-06	2.81E-08	4.09E-06	7.92E-07	4.91E-06
RECR	Post Closure-Base	Arsenic_Cancer	Adult	SF	1.56E-08	0.00E+00	2.04E-07	2.20E-07	2.81E-08	0.00E+00	3.67E-07	3.95E-07
URBN	Project-Base	Arsenic_Cancer	Adult	SF	2.70E-09	0.00E+00	2.88E-09	5.59E-09	4.87E-09	0.00E+00	5.19E-09	1.01E-08
URBN	Closure-Base	Arsenic_Cancer	Adult	SF	2.70E-09	0.00E+00	2.88E-09	5.59E-09	4.87E-09	0.00E+00	5.19E-09	1.01E-08
URBN	Post Closure-Base	Arsenic_Cancer	Adult	SF	2.70E-09	0.00E+00	2.88E-09	5.59E-09	4.87E-09	0.00E+00	5.19E-09	1.01E-08
COMM	Project-Base	Arsenic_Cancer	Adult	SF	2.63E-09	0.00E+00	0.00E+00	2.63E-09	4.74E-09	0.00E+00	0.00E+00	4.74E-09
COMM	Closure-Base	Arsenic_Cancer	Adult	SF	2.63E-09	0.00E+00	0.00E+00	2.63E-09	4.74E-09	0.00E+00	0.00E+00	4.74E-09
COMM	Post Closure-Base	Arsenic_Cancer	Adult	SF	2.63E-09	0.00E+00	0.00E+00	2.63E-09	4.74E-09	0.00E+00	0.00E+00	4.74E-09

Table 1-5: Risk Estimates By Lifestage

				Lifestage HQ / LCR / ILCR [Unitless]					Threshold	Non-threshold
Receptor	Case	Chemical	TRV Type	Infant	Toddler	Child	Adolescent	Adult	Max HQ	Total LCR / ILCR
RESI	Base	Arsenic	RfD	2.23E-01	4.87E-01	2.70E-01	1.84E-01	1.84E-01	4.87E-01	NA
RESI	Base	Arsenic_Cancer	SF	1.51E-07	2.96E-06	2.55E-06	1.98E-06	1.49E-05	1.49E-05	2.26E-05
RESI	Base	Barium	RfD	3.11E-03	1.27E-02	8.36E-03	5.80E-03	5.26E-03	1.27E-02	NA
RESI	Base	Beryllium	RfD	2.49E-03	9.04E-03	6.35E-03	4.48E-03	4.19E-03	9.04E-03	NA
RESI	Base	Chromium	RfD	1.36E-04	5.18E-04	2.81E-04	2.18E-04	1.95E-04	5.18E-04	NA
RESI	Base	Cobalt	RfD	8.56E-02	4.98E-01	3.00E-01	2.22E-01	1.97E-01	4.98E-01	NA
RESI	Base	MercuryIng	RfD	5.38E-03	4.76E-01	3.80E-01	2.56E-01	2.20E-01	4.76E-01	NA
RESI	Base	Iron	RfD	2.25E-01	7.13E-01	3.05E-01	2.28E-01	2.02E-01	7.13E-01	NA
RESI	Base	Lead	RfD	4.21E-02	3.46E-01	2.14E-01	1.70E-01	1.49E-01	3.46E-01	NA
RESI	Base	Manganese	RfD	8.05E-02	9.89E-01	7.11E-01	4.83E-01	4.30E-01	9.89E-01	NA
RESI	Base	MercuryMethyl	RfD	6.97E-04	**3.27E+00**	**2.67E+00**	**1.79E+00**	**1.52E+00**	**3.27E+00**	NA
RESI	Base	Molybdenum	RfD	3.30E-03	4.41E-02	3.33E-02	2.36E-02	2.11E-02	4.41E-02	NA
RESI	Base	Selenium	RfD	3.36E-03	2.02E-01	1.38E-01	1.07E-01	9.49E-02	2.02E-01	NA
RESI	Closure	Arsenic	RfD	2.86E-01	6.07E-01	3.50E-01	2.38E-01	2.42E-01	6.07E-01	NA
RESI	Closure	Arsenic_Cancer	SF	1.93E-07	3.69E-06	3.31E-06	2.57E-06	1.96E-05	1.96E-05	2.94E-05
RESI	Closure	Barium	RfD	3.69E-03	1.41E-02	9.33E-03	6.45E-03	5.92E-03	1.41E-02	NA
RESI	Closure	Beryllium	RfD	2.64E-03	9.76E-03	6.86E-03	4.85E-03	4.53E-03	9.76E-03	NA
RESI	Closure	Chromium	RfD	1.36E-04	5.52E-04	3.04E-04	2.40E-04	2.14E-04	5.52E-04	NA
RESI	Closure	Cobalt	RfD	1.95E-01	8.07E-01	5.22E-01	3.77E-01	3.50E-01	8.07E-01	NA
RESI	Closure	MercuryIng	RfD	5.17E-03	4.56E-01	3.64E-01	2.45E-01	2.10E-01	4.56E-01	NA
RESI	Closure	Iron	RfD	2.36E-01	8.79E-01	4.21E-01	3.18E-01	2.82E-01	8.79E-01	NA
RESI	Closure	Lead	RfD	4.01E-02	2.72E-01	1.67E-01	1.34E-01	1.18E-01	2.72E-01	NA
RESI	Closure	Manganese	RfD	1.71E-01	**1.12E+00**	8.00E-01	5.43E-01	4.98E-01	**1.12E+00**	NA
RESI	Closure	MercuryMethyl	RfD	6.61E-04	**3.11E+00**	**2.53E+00**	**1.70E+00**	**1.44E+00**	**3.11E+00**	NA
RESI	Closure	Molybdenum	RfD	1.36E-02	1.18E-01	9.04E-02	6.40E-02	5.79E-02	1.18E-01	NA
RESI	Closure	Selenium	RfD	5.08E-03	3.55E-01	2.40E-01	1.82E-01	1.62E-01	3.55E-01	NA
RESI	Post Closure	Arsenic	RfD	1.93E-01	4.84E-01	2.64E-01	1.81E-01	1.76E-01	4.84E-01	NA
RESI	Post Closure	Arsenic_Cancer	SF	1.30E-07	2.94E-06	2.50E-06	1.95E-06	1.43E-05	1.43E-05	2.18E-05
RESI	Post Closure	Barium	RfD	3.66E-03	1.40E-02	9.27E-03	6.41E-03	5.88E-03	1.40E-02	NA
RESI	Post Closure	Beryllium	RfD	2.06E-03	7.89E-03	5.43E-03	3.90E-03	3.62E-03	7.89E-03	NA
RESI	Post Closure	Chromium	RfD	1.32E-04	5.39E-04	2.95E-04	2.33E-04	2.07E-04	5.39E-04	NA
RESI	Post Closure	Cobalt	RfD	8.40E-02	5.53E-01	3.36E-01	2.53E-01	2.24E-01	5.53E-01	NA
RESI	Post Closure	MercuryIng	RfD	5.02E-03	4.43E-01	3.53E-01	2.38E-01	2.04E-01	4.43E-01	NA
RESI	Post Closure	Iron	RfD	2.35E-01	8.71E-01	4.14E-01	3.14E-01	2.78E-01	8.71E-01	NA
RESI	Post Closure	Lead	RfD	3.76E-02	2.67E-01	1.63E-01	1.32E-01	1.15E-01	2.67E-01	NA
RESI	Post Closure	Manganese	RfD	1.61E-01	**1.11E+00**	7.90E-01	5.37E-01	4.91E-01	**1.11E+00**	NA
RESI	Post Closure	MercuryMethyl	RfD	6.37E-04	**3.00E+00**	**2.44E+00**	**1.64E+00**	**1.39E+00**	**3.00E+00**	NA
RESI	Post Closure	Molybdenum	RfD	9.35E-03	1.06E-01	7.94E-02	5.76E-02	5.18E-02	1.06E-01	NA
RESI	Post Closure	Selenium	RfD	2.62E-03	6.65E-01	4.38E-01	3.29E-01	2.89E-01	6.65E-01	NA
RESI	Project	Arsenic	RfD	3.48E-01	7.06E-01	4.18E-01	2.83E-01	2.92E-01	7.06E-01	NA
RESI	Project	Arsenic_Cancer	SF	2.35E-07	4.29E-06	3.95E-06	3.06E-06	2.37E-05	2.37E-05	3.52E-05
RESI	Project	Barium	RfD	3.71E-03	1.42E-02	9.36E-03	6.47E-03	5.94E-03	1.42E-02	NA
RESI	Project	Beryllium	RfD	2.99E-03	1.09E-02	7.72E-03	5.43E-03	5.08E-03	1.09E-02	NA
RESI	Project	Chromium	RfD	1.39E-04	5.61E-04	3.11E-04	2.45E-04	2.18E-04	5.61E-04	NA
RESI	Project	Cobalt	RfD	2.66E-01	9.76E-01	6.46E-01	4.59E-01	4.33E-01	9.76E-01	NA
RESI	Project	MercuryIng	RfD	5.16E-03	4.55E-01	3.64E-01	2.45E-01	2.10E-01	4.55E-01	NA
RESI	Project	Iron	RfD	2.38E-01	9.02E-01	4.38E-01	3.30E-01	2.93E-01	9.02E-01	NA
RESI	Project	Lead	RfD	4.09E-02	2.75E-01	1.68E-01	1.35E-01	1.19E-01	2.75E-01	NA
RESI	Project	Manganese	RfD	2.09E-01	**1.17E+00**	8.37E-01	5.68E-01	5.26E-01	**1.17E+00**	NA
RESI	Project	MercuryMethyl	RfD	6.60E-04	**3.10E+00**	**2.53E+00**	**1.70E+00**	**1.44E+00**	**3.10E+00**	NA
RESI	Project	Molybdenum	RfD	1.84E-02	1.51E-01	1.15E-01	8.12E-02	7.34E-02	1.51E-01	NA
RESI	Project	Selenium	RfD	6.68E-03	4.51E-01	3.03E-01	2.28E-01	2.02E-01	4.51E-01	NA
RESI	Closure-Base	Arsenic	RfD	6.35E-02	1.22E-01	8.13E-02	5.48E-02	5.87E-02	1.22E-01	NA
RESI	Closure-Base	Arsenic_Cancer	SF	4.28E-08	7.40E-07	7.69E-07	5.92E-07	4.75E-06	4.75E-06	6.89E-06
RESI	Closure-Base	Barium	RfD	5.88E-04	1.40E-03	9.74E-04	6.56E-04	6.62E-04	1.40E-03	NA
RESI	Closure-Base	Beryllium	RfD	1.53E-04	8.86E-04	6.24E-04	4.80E-04	4.36E-04	8.86E-04	NA
RESI	Closure-Base	Chromium	RfD	2.16E-06	4.87E-05	3.32E-05	2.79E-05	2.53E-05	4.87E-05	NA

Table 1-5: Risk Estimates By Lifestage

				Lifestage HQ / LCR / ILCR [Unitless]					Threshold	Non-threshold
Receptor	Case	Chemical	TRV Type	Infant	Toddler	Child	Adolescent	Adult	Max HQ	Total LCR / ILCR
RESI	Closure-Base	Cobalt	RfD	1.09E-01	3.08E-01	2.23E-01	1.55E-01	1.53E-01	3.08E-01	NA
RESI	Closure-Base	MercuryIng	RfD	8.34E-06	5.45E-04	4.10E-04	3.49E-04	3.25E-04	5.45E-04	NA
RESI	Closure-Base	Iron	RfD	1.19E-02	1.65E-01	1.16E-01	9.03E-02	8.04E-02	1.65E-01	NA
RESI	Closure-Base	Lead	RfD	5.66E-04	2.51E-02	1.79E-02	1.66E-02	1.49E-02	2.51E-02	NA
RESI	Closure-Base	Manganese	RfD	9.03E-02	1.37E-01	9.33E-02	6.37E-02	7.14E-02	1.37E-01	NA
RESI	Closure-Base	MercuryMethyl	RfD	1.90E-07	2.55E-03	1.90E-03	1.66E-03	1.54E-03	2.55E-03	NA
RESI	Closure-Base	Molybdenum	RfD	1.03E-02	7.37E-02	5.71E-02	4.04E-02	3.68E-02	7.37E-02	NA
RESI	Closure-Base	Selenium	RfD	1.72E-03	1.52E-01	1.01E-01	7.48E-02	6.58E-02	1.52E-01	NA
RESI	Post Closure-Base	Arsenic	RfD	1.92E-03	4.56E-02	2.80E-02	1.95E-02	1.73E-02	4.56E-02	NA
RESI	Post Closure-Base	Arsenic_Cancer	SF	1.29E-09	2.77E-07	2.64E-07	2.10E-07	1.40E-06	1.40E-06	2.15E-06
RESI	Post Closure-Base	Barium	RfD	5.51E-04	1.33E-03	9.19E-04	6.20E-04	6.24E-04	1.33E-03	NA
RESI	Post Closure-Base	Beryllium	RfD	2.23E-05	4.61E-04	2.98E-04	2.63E-04	2.27E-04	4.61E-04	NA
RESI	Post Closure-Base	Chromium	RfD	2.16E-06	4.41E-05	3.01E-05	2.52E-05	2.31E-05	4.41E-05	NA
RESI	Post Closure-Base	Cobalt	RfD	1.28E-03	6.12E-02	4.12E-02	3.42E-02	3.03E-02	6.12E-02	NA
RESI	Post Closure-Base	MercuryIng	RfD	8.34E-06	5.45E-04	4.10E-04	3.49E-04	3.25E-04	5.45E-04	NA
RESI	Post Closure-Base	Iron	RfD	1.00E-02	1.61E-01	1.11E-01	8.78E-02	7.81E-02	1.61E-01	NA
RESI	Post Closure-Base	Lead	RfD	5.66E-04	2.51E-02	1.79E-02	1.66E-02	1.49E-02	2.51E-02	NA
RESI	Post Closure-Base	Manganese	RfD	8.06E-02	1.24E-01	8.46E-02	5.80E-02	6.48E-02	1.24E-01	NA
RESI	Post Closure-Base	MercuryMethyl	RfD	1.90E-07	2.55E-03	1.90E-03	1.66E-03	1.54E-03	2.55E-03	NA
RESI	Post Closure-Base	Molybdenum	RfD	6.05E-03	6.39E-02	4.75E-02	3.51E-02	3.17E-02	6.39E-02	NA
RESI	Post Closure-Base	Selenium	RfD	5.95E-06	4.66E-01	3.02E-01	2.23E-01	1.95E-01	4.66E-01	NA
RESI	Project-Base	Arsenic	RfD	1.25E-01	2.17E-01	1.47E-01	9.83E-02	1.07E-01	2.17E-01	NA
RESI	Project-Base	Arsenic_Cancer	SF	8.43E-08	1.32E-06	1.39E-06	1.06E-06	8.68E-06	8.68E-06	1.25E-05
RESI	Project-Base	Barium	RfD	6.04E-04	1.44E-03	1.00E-03	6.75E-04	6.80E-04	1.44E-03	NA
RESI	Project-Base	Beryllium	RfD	4.99E-04	2.00E-03	1.48E-03	1.05E-03	9.81E-04	2.00E-03	NA
RESI	Project-Base	Chromium	RfD	2.22E-06	5.01E-05	3.41E-05	2.87E-05	2.60E-05	5.01E-05	NA
RESI	Project-Base	Cobalt	RfD	1.80E-01	4.77E-01	3.46E-01	2.37E-01	2.36E-01	4.77E-01	NA
RESI	Project-Base	MercuryIng	RfD	8.34E-06	5.45E-04	4.10E-04	3.49E-04	3.25E-04	5.45E-04	NA
RESI	Project-Base	Iron	RfD	1.37E-02	2.10E-01	1.47E-01	1.13E-01	1.00E-01	2.10E-01	NA
RESI	Project-Base	Lead	RfD	5.66E-04	2.51E-02	1.79E-02	1.66E-02	1.49E-02	2.51E-02	NA
RESI	Project-Base	Manganese	RfD	1.29E-01	1.93E-01	1.31E-01	8.89E-02	1.00E-01	1.93E-01	NA
RESI	Project-Base	MercuryMethyl	RfD	1.90E-07	2.55E-03	1.90E-03	1.66E-03	1.54E-03	2.55E-03	NA
RESI	Project-Base	Molybdenum	RfD	1.51E-02	1.10E-01	8.44E-02	5.93E-02	5.38E-02	1.10E-01	NA
RESI	Project-Base	Selenium	RfD	3.32E-03	2.07E-01	1.37E-01	1.01E-01	8.89E-02	2.07E-01	NA

Table 1-6: Risk Estimates by Assessment Case

RESI	Maximum HQ / LCR / ILCR Value [Unitless]						
COPC	**Base**	**Project**	**Closure**	**Post Closure**	**Project-Base**	**Closure-Base**	**Post Closure-Base**
Threshold - HQ Values							
Arsenic	4.9E-01	7.1E-01	6.1E-01	4.8E-01	2.2E-01	1.2E-01	4.6E-02
Barium	1.3E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-03	1.4E-03	1.3E-03
Beryllium	9.0E-03	1.1E-02	9.8E-03	7.9E-03	2.0E-03	8.9E-04	4.6E-04
Chromium	5.2E-04	5.6E-04	5.5E-04	5.4E-04	5.0E-05	4.9E-05	4.4E-05
Cobalt	5.0E-01	9.8E-01	8.1E-01	5.5E-01	4.8E-01	3.1E-01	6.1E-02
Iron	7.1E-01	9.0E-01	8.8E-01	8.7E-01	2.1E-01	1.7E-01	1.6E-01
Lead	3.5E-01	2.7E-01	2.7E-01	2.7E-01	2.5E-02	2.5E-02	2.5E-02
Manganese	9.9E-01	**1.2E+00**	**1.1E+00**	**1.1E+00**	1.9E-01	1.4E-01	1.2E-01
MercuryIng	4.8E-01	4.6E-01	4.6E-01	4.4E-01	5.5E-04	5.5E-04	5.5E-04
MercuryMethyl	**3.3E+00**	**3.1E+00**	**3.1E+00**	**3.0E+00**	2.5E-03	2.5E-03	2.5E-03
Molybdenum	4.4E-02	1.5E-01	1.2E-01	1.1E-01	1.1E-01	7.4E-02	6.4E-02
Selenium	2.0E-01	4.5E-01	3.6E-01	6.6E-01	2.1E-01	1.5E-01	4.7E-01
Non-Threshold - LCR / ILCR Values Based on Slope factor							
Arsenic_Cancer	2.3E-05	3.5E-05	2.9E-05	2.2E-05	**1.3E-05**	6.9E-06	2.2E-06

RECR	Maximum HQ / LCR / ILCR Value [Unitless]						
COPC	**Base**	**Project**	**Closure**	**Post Closure**	**Project-Base**	**Closure-Base**	**Post Closure-Base**
Threshold - HQ Values							
Arsenic	3.6E-01	5.3E-01	4.5E-01	3.3E-01	1.7E-01	9.0E-02	1.2E-02
Barium	6.5E-03	7.5E-03	7.5E-03	7.5E-03	1.0E-03	1.0E-03	9.4E-04
Beryllium	5.6E-03	6.7E-03	5.9E-03	4.7E-03	1.2E-03	4.1E-04	1.2E-04
Chromium	2.8E-04	3.0E-04	2.9E-04	2.8E-04	1.3E-05	1.3E-05	1.2E-05
Cobalt	2.2E-01	5.3E-01	4.1E-01	2.2E-01	3.2E-01	2.0E-01	1.4E-02
Iron	4.6E-01	5.3E-01	5.2E-01	5.1E-01	7.3E-02	5.9E-02	5.2E-02
Lead	1.3E-01	1.1E-01	1.1E-01	1.1E-01	5.9E-03	5.9E-03	5.9E-03
Manganese	3.0E-01	4.7E-01	4.2E-01	4.1E-01	1.7E-01	1.2E-01	1.1E-01
MercuryIng	2.0E-01	1.9E-01	1.9E-01	1.9E-01	1.2E-04	1.2E-04	1.2E-04
MercuryMethyl	**1.5E+00**	**1.4E+00**	**1.4E+00**	**1.4E+00**	5.1E-04	5.1E-04	5.1E-04

Table 1-6: Risk Estimates by Assessment Case

Molybdenum	1.6E-02	7.0E-02	5.3E-02	4.1E-02	5.5E-02	3.7E-02	2.6E-02
Selenium	4.8E-02	1.0E-01	8.2E-02	1.4E-01	4.9E-02	3.4E-02	9.3E-02
Non-Threshold - LCR / ILCR Values Based on Slope factor							
Arsenic_Cancer	1.6E-05	2.6E-05	2.1E-05	1.4E-05	**1.0E-05**	5.2E-06	4.7E-07

COMM	**Maximum HQ / LCR / ILCR Value [Unitless]**						
COPC	**Base**	**Project**	**Closure**	**Post Closure**	**Project-Base**	**Closure-Base**	**Post Closure-Base**
Threshold - HQ Values							
Arsenic	1.3E-01	1.3E-01	1.3E-01	1.3E-01	5.4E-04	5.4E-04	5.4E-04
Barium	2.1E-03	2.2E-03	2.2E-03	2.2E-03	1.5E-05	1.5E-05	1.5E-05
Beryllium	5.4E-04	7.9E-04	7.9E-04	7.9E-04	5.7E-06	5.7E-06	5.7E-06
Chromium	1.8E-04	1.8E-04	1.8E-04	1.8E-04	5.6E-07	5.6E-07	5.6E-07
Cobalt	1.2E-01	1.2E-01	1.2E-01	1.2E-01	3.3E-04	3.3E-04	3.3E-04
Iron	3.9E-01	4.0E-01	4.0E-01	4.0E-01	1.5E-03	1.5E-03	1.5E-03
Lead	5.4E-02	5.4E-02	5.4E-02	5.4E-02	1.7E-04	1.7E-04	1.7E-04
Manganese	1.1E-01	1.2E-01	1.2E-01	1.2E-01	4.9E-04	4.9E-04	4.9E-04
MercuryIng	1.5E-03	1.5E-03	1.5E-03	1.5E-03	1.3E-06	1.3E-06	1.3E-06
MercuryMethyl	3.4E-05	3.4E-05	3.4E-05	3.4E-05	3.0E-08	3.0E-08	3.0E-08
Molybdenum	8.1E-04	8.3E-04	8.3E-04	8.3E-04	2.1E-05	2.1E-05	2.1E-05
Selenium	4.6E-04	4.6E-04	4.6E-04	4.6E-04	1.7E-06	1.7E-06	1.7E-06
Non-Threshold - LCR / ILCR Values Based on Slope factor							
Arsenic_Cancer	2.1E-06	2.1E-06	2.1E-06	2.1E-06	8.4E-09	8.4E-09	8.4E-09

URBN	**Maximum HQ / LCR / ILCR Value [Unitless]**						
COPC	**Base**	**Project**	**Closure**	**Post Closure**	**Project-Base**	**Closure-Base**	**Post Closure-Base**
Threshold - HQ Values							
Arsenic	1.5E-01	1.5E-01	1.5E-01	1.5E-01	7.3E-04	7.3E-04	7.3E-04
Barium	3.3E-03	3.3E-03	3.3E-03	3.3E-03	2.1E-05	2.1E-05	2.1E-05
Beryllium	8.0E-04	8.1E-04	8.1E-04	8.1E-04	7.7E-06	7.7E-06	7.7E-06
Chromium	2.0E-04	2.0E-04	2.0E-04	2.0E-04	7.5E-07	7.5E-07	7.5E-07

Table 1-6: Risk Estimates by Assessment Case

Cobalt	1.5E-01	1.5E-01	1.5E-01	1.5E-01	4.5E-04	4.5E-04	4.5E-04
Iron	4.1E-01	4.1E-01	4.1E-01	4.1E-01	2.1E-03	2.1E-03	2.1E-03
Lead	6.9E-02	6.9E-02	6.9E-02	6.9E-02	2.3E-04	2.3E-04	2.3E-04
Manganese	2.4E-01	2.4E-01	2.4E-01	2.4E-01	6.7E-04	6.7E-04	6.7E-04
MercuryIng	1.2E-02	1.2E-02	1.2E-02	1.2E-02	2.8E-06	2.8E-06	2.8E-06
MercuryMethyl	3.4E-04	3.4E-04	3.4E-04	3.4E-04	7.1E-08	7.1E-08	7.1E-08
Molybdenum	3.5E-03	3.6E-03	3.6E-03	3.6E-03	3.7E-05	3.7E-05	3.7E-05
Selenium	7.0E-04	7.1E-04	7.1E-04	7.1E-04	2.5E-06	2.5E-06	2.5E-06
Non-Threshold - LCR / ILCR Values Based on Slope factor							
Arsenic_Cancer	2.8E-06	2.8E-06	2.8E-06	2.8E-06	1.5E-08	1.5E-08	1.5E-08

Table 1-7: Input Parameters Used for Predicting Soil Concetrations from Deposition Based on Site Characteristics		
Variable	Value	Reference / Comment
Time	26	t in years; Assumed equal to duration of project operations
Surface Soil Mixing Depth [metres] = Depth1	0.02	Z1; US EPA 2005
Soil Mixing Depth for Plants and Invertebrates[metres] = Depth2	0.2	Z2; US EPA 2005
Soil Bulk Density [kg/m3]	1500	BD; US EPA 2005

Table 1-8: MeHg Content of Media [%]		
Media	Value	Reference / Comment
Berry	3.6%	Mailman and Bodaly 2005
TradPlant	1.9%	Mailman and Bodaly 2005
AG	1.9%	Assumed same as lab tea
BG	1.9%	Assumed same as lab tea
Moose	90.0%	AANDC 2012
Grouse	75.0%	AANDC 2012; assumed same as caribou muscle
Mallard	75.0%	AANDC 2012; assumed same as caribou muscle
Hare	75.0%	AANDC 2012; assumed same as caribou muscle
Fish	85.0%	Canuel et al. 2006
Soil	1.5%	US EPA 1997
Surface Water	10.0%	Health Canada 1986, BC ENV 2021, CCME 2003, Krabbenhoft et al. 1999, St. Louis et al. 2004, Litten 1996, PTI 1993, US EPA 1997

Table 1-9: Chemical Speciation Assumptions for Inorganic Arsenic [%]

Media	Chemical	Value	Reference	Comment
AG_Plant	Arsenic	94%	Schoof et al. 1999	95UCLM (ProUCL) As (veg) for above-ground plants
AG_Plant	Barium	100%		
AG_Plant	Beryllium	100%		
AG_Plant	Chromium	100%		
AG_Plant	Cobalt	100%		
AG_Plant	Iron	100%		
AG_Plant	Lead	100%		
AG_Plant	Manganese	100%		
AG_Plant	Mercury	100%		
AG_Plant	MercuryIng	100%		
AG_Plant	MercuryMethyl	100%		
AG_Plant	Molybdenum	100%		
AG_Plant	Selenium	100%		
Berry	Arsenic	57%	Schoof et al. 1999	95UCLM (ProUCL) As(Fruit)
Berry	Barium	100%		
Berry	Beryllium	100%		
Berry	Chromium	100%		
Berry	Cobalt	100%		
Berry	Iron	100%		
Berry	Lead	100%		
Berry	Manganese	100%		
Berry	Mercury	100%	Need to derive MeHg content	
Berry	MercuryIng	100%		
Berry	MercuryMethyl	100%		
Berry	Molybdenum	100%		
Berry	Selenium	100%		
BG_Plant	Arsenic	53%	Schoof et al. 1999	Max of As (veg) for below-ground plants (n=3; carrots, onions, and potatoes)
BG_Plant	Barium	100%		
BG_Plant	Beryllium	100%		

Table 1-9: Chemical Speciation Assumptions for Inorganic Arsenic [%]

Media	Chemical	Value	Reference	Comment
BG_Plant	Chromium	100%		
BG_Plant	Cobalt	100%		
BG_Plant	Iron	100%		
BG_Plant	Lead	100%		
BG_Plant	Manganese	100%		
BG_Plant	Mercury	100%		
BG_Plant	MercuryIng	100%		
BG_Plant	MercuryMethyl	100%		
BG_Plant	Molybdenum	100%		
BG_Plant	Selenium	100%		
Dust	Arsenic	100%	Assumed	-
Dust	Barium	100%		
Dust	Beryllium	100%		
Dust	Chromium	100%		
Dust	Cobalt	100%		
Dust	Iron	100%		
Dust	Lead	100%		
Dust	Manganese	100%		
Dust	Mercury	100%		
Dust	MercuryIng	100%		
Dust	MercuryMethyl	100%		
Dust	Molybdenum	100%		
Dust	Selenium	100%		
Fish	Arsenic	8.5%	Tanamal et al. 2020	95UCLM of %iAs based on 180 fish samples including lake whitefish, northern pike and burbot
Fish	Barium	100%		
Fish	Beryllium	100%		
Fish	Chromium	100%		
Fish	Cobalt	100%		
Fish	Iron	100%		

Table 1-9: Chemical Speciation Assumptions for Inorganic Arsenic [%]

Media	Chemical	Value	Reference	Comment
Fish	Lead	100%		
Fish	Manganese	100%		
Fish	Mercury	100%		
Fish	MercuryIng	100%		
Fish	MercuryMethyl	100%		
Fish	Molybdenum	100%		
Fish	Selenium	100%		
Grouse	Arsenic	5.4%	Schoof et al. 1999	95UCLM (ProUCL)
Grouse	Barium	100%		
Grouse	Beryllium	100%		
Grouse	Chromium	100%		
Grouse	Cobalt	100%		
Grouse	Iron	100%		
Grouse	Lead	100%		
Grouse	Manganese	100%		
Grouse	Mercury	100%		
Grouse	MercuryIng	100%		
Grouse	MercuryMethyl	100%		
Grouse	Molybdenum	100%		
Grouse	Selenium	100%		
Hare	Arsenic	5.4%	Schoof et al. 1999	Based on Hoary Marmot
Hare	Barium	100%		
Hare	Beryllium	100%		
Hare	Chromium	100%		
Hare	Cobalt	100%		
Hare	Iron	100%		
Hare	Lead	100%		
Hare	Manganese	100%		
Hare	Mercury	100%		
Hare	MercuryIng	100%		

Table 1-9: Chemical Speciation Assumptions for Inorganic Arsenic [%]

Media	Chemical	Value	Reference	Comment
Hare	MercuryMethyl	100%		
Hare	Molybdenum	100%		
Hare	Selenium	100%		
Mallard	Arsenic	5.4%	Schoof et al. 1999	Assumed same as grouse
Mallard	Barium	100%		
Mallard	Beryllium	100%		
Mallard	Chromium	100%		
Mallard	Cobalt	100%		
Mallard	Iron	100%		
Mallard	Lead	100%		
Mallard	Manganese	100%		
Mallard	Mercury	100%		
Mallard	MercuryIng	100%		
Mallard	MercuryMethyl	100%		
Mallard	Molybdenum	100%		
Mallard	Selenium	100%		
Moose	Arsenic	5.4%	Schoof et al. 1999	95UCLM (ProUCL)
Moose	Barium	100%		
Moose	Beryllium	100%		
Moose	Chromium	100%		
Moose	Cobalt	100%		
Moose	Iron	100%		
Moose	Lead	100%		
Moose	Manganese	100%		
Moose	Mercury	100%		
Moose	MercuryIng	100%		
Moose	MercuryMethyl	100%		
Moose	Molybdenum	100%		
Moose	Selenium	100%		
Soil	Arsenic	100%	Assumed	-

Table 1-9: Chemical Speciation Assumptions for Inorganic Arsenic [%]

Media	Chemical	Value	Reference	Comment
Soil	Barium	100%		
Soil	Beryllium	100%		
Soil	Chromium	100%		
Soil	Cobalt	100%		
Soil	Iron	100%		
Soil	Lead	100%		
Soil	Manganese	100%		
Soil	Mercury	100%		
Soil	MercuryIng	100%		
Soil	MercuryMethyl	100%		
Soil	Molybdenum	100%		
Soil	Selenium	100%		
Surface_water	Arsenic	100%	Assumed	-
Surface_water	Barium	100%		
Surface_water	Beryllium	100%		
Surface_water	Chromium	100%		
Surface_water	Cobalt	100%		
Surface_water	Iron	100%		
Surface_water	Lead	100%		
Surface_water	Manganese	100%		
Surface_water	Mercury	100%		
Surface_water	MercuryIng	100%		
Surface_water	MercuryMethyl	100%		
Surface_water	Molybdenum	100%		
Surface_water	Selenium	100%		
TradPlant	Arsenic	100%	Schoof et al. 1999	Lettuce and spinach had 100% iAs
TradPlant	Barium	100%		
TradPlant	Beryllium	100%		
TradPlant	Chromium	100%		
TradPlant	Cobalt	100%		

Table 1-9: Chemical Speciation Assumptions for Inorganic Arsenic [%]

Media	Chemical	Value	Reference	Comment
TradPlant	Iron	100%		
TradPlant	Lead	100%		
TradPlant	Manganese	100%		
TradPlant	Mercury	100%	Need to derive MeHg content	
TradPlant	MercuryIng	100%		
TradPlant	MercuryMethyl	100%		
TradPlant	Molybdenum	100%		
TradPlant	Selenium	100%		

Table 1-10: Summary of Soil Lost Constants - Kp [year-1]			
Chemical	Value	Half-life [days]	Reference / Comment
Arsenic	0.027725887	9125	Assumed life of project
Barium	0.027725887	9125	Assumed life of project
Beryllium	0.027725887	9125	Assumed life of project
Chromium	0.027725887	9125	Assumed life of project
Cobalt	0.027725887	9125	Assumed life of project
Iron	0.027725887	9125	Assumed life of project
Lead	0.027725887	9125	Assumed life of project
Manganese	0.027725887	9125	Assumed life of project
Mercury	0.027725887	9125	Assumed life of project
Molybdenum	0.027725887	9125	Assumed life of project
Selenium	0.027725887	9125	Assumed life of project

Table 1-11: Input Parameters for Predicting Plant Concentrations from Deposition

Parameter	Variable	Home-garden Aboveground	Berries	Traditional Plants (Labrador Tea)	Home-garden Belowground
Intercept Fraction [Unitless]	Rp	0.39	0.053	0.982	NA
Plant Surface Loss Coefficient [yr-1]	Kp	18	18	18	18
Length of Plant Exposure [year]	Tp	0.16	0.164	0.164	0.164
Yield or Productivity [kg-DW/m2]	Yp	2.24	0.25	5.66	N/A
Moisture Content [%]	MC	87[B]	84.94[A]	51.11[A]	87[B]

A) Site-specific Data

B) US EPA 2005

Table 1-12: Bioacummulation Factors used to Predict Tissue Concentrations

Media	Chemical	BAF	Media	Units	Reference / Comment
Berry	Arsenic	8.23E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
Berry	Barium	4.19E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
Berry	Beryllium	3.35E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
Berry	Chromium	6.34E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
Berry	Cobalt	1.67E-03	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
Berry	Iron	4.58E-04	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
Berry	Lead	1.77E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
Berry	Manganese	8.16E-02	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
Berry	Mercury	2.00E-01	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
Berry	Molybdenum	6.64E-02	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
Berry	Selenium	2.54E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
TradPlant	Arsenic	8.23E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
TradPlant	Barium	4.19E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
TradPlant	Beryllium	3.35E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
TradPlant	Chromium	6.34E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
TradPlant	Cobalt	1.67E-03	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
TradPlant	Iron	4.58E-04	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
TradPlant	Lead	1.77E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
TradPlant	Manganese	8.16E-02	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
TradPlant	Mercury	2.00E-01	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
TradPlant	Molybdenum	6.64E-02	Soil	kg-soil / kg-plant-WW	Site specific (see Appendix A)
TradPlant	Selenium	2.54E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Arsenic	8.23E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Barium	4.19E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Beryllium	3.35E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Chromium	6.34E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Cobalt	2.60E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Iron	5.20E-04	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Lead	1.77E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Manganese	3.25E-02	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model

Table 1-12: Bioacummulation Factors used to Predict Tissue Concentrations

Media	Chemical	BAF	Media	Units	Reference / Comment
AG_Plant	Mercury	1.17E-01	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Molybdenum	3.25E-02	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
AG_Plant	Selenium	2.54E-03	Soil	kg-soil / kg-plant-WW	Above ground garden produce , USEPA 2005 BAF model
BG_Plant	Arsenic	1.04E-03	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Barium	1.95E-03	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Beryllium	1.95E-04	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Chromium	5.85E-04	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Cobalt	9.10E-04	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Iron	1.30E-04	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Lead	1.17E-03	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Manganese	6.50E-03	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Mercury	2.60E-02	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Molybdenum	7.80E-03	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
BG_Plant	Selenium	2.86E-03	Soil	kg-soil / kg-plant-WW	Below ground, USEPA 2005 BAF model
Fish	Arsenic	1.14E+02	Surface Water	L-water/kg-fish-WW	Fish , USEPA 2005 BCF model
Fish	Barium	2.88E+01	Surface Water	L-water/kg-fish-WW	Site specific (see Appendix A)
Fish	Beryllium	6.20E+01	Surface Water	L-water/kg-fish-WW	Fish , USEPA 2005 BCF model
Fish	Chromium	1.90E+01	Surface Water	L-water/kg-fish-WW	Fish , USEPA 2005 BCF model
Fish	Cobalt	3.21E+01	Surface Water	L-water/kg-fish-WW	Site specific (see Appendix A)
Fish	Iron	2.03E+02	Surface Water	L-water/kg-fish-WW	Site specific (see Appendix A)
Fish	Lead	9.00E-02	Surface Water	L-water/kg-fish-WW	Fish , USEPA 2005 BCF model
Fish	Manganese	4.08E+01	Surface Water	L-water/kg-fish-WW	Site specific (see Appendix A)
Fish	Mercury	1.57E+04	Surface Water	L-water/kg-fish-WW	Site specific (see Appendix A)
Fish	Molybdenum	1.29E+02	Surface Water	L-water/kg-fish-WW	Site specific (see Appendix A)
Fish	Selenium	1.29E+02	Surface Water	L-water/kg-fish-WW	Fish , USEPA 2005 BCF model

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
COMM	Adolescent	AG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Adult	AG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Child	AG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Infant	AG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Toddler	AG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
RECR	Adolescent	AG_Plant	1.20E-02	kg/day	Other vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RECR	Adult	AG_Plant	1.37E-02	kg/day	Other vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RECR	Child	AG_Plant	9.80E-03	kg/day	Other vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RECR	Infant	AG_Plant	0.00E+00	kg/day	Assume no food consumption for infant
RECR	Toddler	AG_Plant	6.70E-03	kg/day	Other vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RESI	Adolescent	AG_Plant	6.00E-02	kg/day	Other vegetables consumption rate; Richardson 1997 x 50% (agricultural dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RESI	Adult	AG_Plant	6.85E-02	kg/day	Other vegetables consumption rate; Richardson 1997 x 50% (agricultural dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RESI	Child	AG_Plant	4.90E-02	kg/day	Other vegetables consumption rate; Richardson 1997 x 50% (agricultural dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RESI	Infant	AG_Plant	0.00E+00	kg/day	Assume no food consumption for infant
RESI	Toddler	AG_Plant	3.35E-02	kg/day	Other vegetables consumption rate; Richardson 1997 x 50% (agricultural dietary proprtion of produce from backyard gardens; CCME SQG protocol)
URBN	Adolescent	AG_Plant	1.20E-02	kg/day	Other vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
URBN	Adult	AG_Plant	1.37E-02	kg/day	Other vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
URBN	Child	AG_Plant	9.80E-03	kg/day	Other vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
URBN	Infant	AG_Plant	0.00E+00	kg/day	assume no food consumption for infant
URBN	Toddler	AG_Plant	6.70E-03	kg/day	Other vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
COMM	Adolescent	AIR	1.56E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
COMM	Adult	AIR	1.66E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
COMM	Child	AIR	1.45E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
COMM	Infant	AIR	2.20E+00	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
COMM	Toddler	AIR	8.30E+00	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RECR	Adolescent	AIR	1.56E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RECR	Adult	AIR	1.66E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RECR	Child	AIR	1.45E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RECR	Infant	AIR	2.20E+00	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RECR	Toddler	AIR	8.30E+00	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RESI	Adolescent	AIR	1.56E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RESI	Adult	AIR	1.66E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RESI	Child	AIR	1.45E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RESI	Infant	AIR	2.20E+00	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
RESI	Toddler	AIR	8.30E+00	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
URBN	Adolescent	AIR	1.56E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
URBN	Adult	AIR	1.66E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
URBN	Child	AIR	1.45E+01	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
URBN	Infant	AIR	2.20E+00	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
URBN	Toddler	AIR	8.30E+00	m3/day	Health Canada 2024 PQRA guidance; Air inhalation rate
COMM	Adolescent	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
COMM	Adult	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
COMM	Child	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
COMM	Infant	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
COMM	Toddler	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
RECR	Adolescent	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RECR	Adult	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RECR	Child	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RECR	Infant	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RECR	Toddler	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RESI	Adolescent	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RESI	Adult	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RESI	Child	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RESI	Infant	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
RESI	Toddler	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
URBN	Adolescent	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
URBN	Adult	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
URBN	Child	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
URBN	Infant	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
URBN	Toddler	AIR_EF	1.00E+00	Unitless	Assumed exposure term 1 or 12 months / 12 months
COMM	Adolescent	Berry	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Adult	Berry	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Child	Berry	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Infant	Berry	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Toddler	Berry	0.00E+00	kg/day	Assume no local plant consumption for commercial
RECR	Adolescent	Berry	1.65E-03	kg/day	Berry consumption rate from HC 1994; Assumed only 10% of total berry consumption from the LSA
RECR	Adult	Berry	1.59E-03	kg/day	Berry consumption rate from HC 1994; Assumed only 10% of total berry consumption from the LSA
RECR	Child	Berry	1.53E-03	kg/day	Berry consumption rate from HC 1994; Assumed only 10% of total berry consumption from the LSA
RECR	Infant	Berry	0.00E+00	kg/day	HC 1994; Assumed only 10% of total berry consumption from the LSA
RECR	Toddler	Berry	7.23E-04	kg/day	Berry consumption rate from HC 1994; Assumed only 10% of total berry consumption from the LSA
RESI	Adolescent	Berry	8.27E-03	kg/day	Berry consumption rate from HC 1994; Assumed only 50% of total berry consumption from the LSA
RESI	Adult	Berry	7.94E-03	kg/day	Berry consumption rate from HC 1994; Assumed only 50% of total berry consumption from the LSA
RESI	Child	Berry	7.66E-03	kg/day	Berry consumption rate from HC 1994; Assumed only 50% of total berry consumption from the LSA
RESI	Infant	Berry	0.00E+00	kg/day	HC 1994; Assumed only 50% of total berry consumption from the LSA
RESI	Toddler	Berry	3.62E-03	kg/day	Berry consumption rate from HC 1994; Assumed only 50% of total berry consumption from the LSA
URBN	Adolescent	Berry	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Adult	Berry	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Child	Berry	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Infant	Berry	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Toddler	Berry	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
COMM	Adolescent	BG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Adult	BG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Child	BG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Infant	BG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
COMM	Toddler	BG_Plant	0.00E+00	kg/day	Assume no local plant consumption for commercial
RECR	Adolescent	BG_Plant	2.27E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RECR	Adult	BG_Plant	1.88E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RECR	Child	BG_Plant	1.61E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RECR	Infant	BG_Plant	0.00E+00	kg/day	Assume no food consumption for infant
RECR	Toddler	BG_Plant	1.05E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
RESI	Adolescent	BG_Plant	1.14E-01	kg/day	Root vegetables consumption rate; Richardson 1997 x 50% (agricultural dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RESI	Adult	BG_Plant	9.40E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 50% (agricultural dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RESI	Child	BG_Plant	8.05E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 50% (agricultural dietary proprtion of produce from backyard gardens; CCME SQG protocol)
RESI	Infant	BG_Plant	0.00E+00	kg/day	Assume no food consumption for infant
RESI	Toddler	BG_Plant	5.25E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 50% (agricultural dietary proprtion of produce from backyard gardens; CCME SQG protocol)
URBN	Adolescent	BG_Plant	2.27E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
URBN	Adult	BG_Plant	1.88E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
URBN	Child	BG_Plant	1.61E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
URBN	Infant	BG_Plant	0.00E+00	kg/day	assume no food consumption for infant
URBN	Toddler	BG_Plant	1.05E-02	kg/day	Root vegetables consumption rate; Richardson 1997 x 10% (residential dietary proprtion of produce from backyard gardens; CCME SQG protocol)
COMM	Adolescent	BW	5.97E+01	kg	Health Canada 2024; PQRA guidance
COMM	Adult	BW	7.07E+01	kg	Health Canada 2024; PQRA guidance
COMM	Child	BW	3.29E+01	kg	Health Canada 2024; PQRA guidance
COMM	Infant	BW	8.20E+00	kg	Health Canada 2024; PQRA guidance
COMM	Toddler	BW	1.65E+01	kg	Health Canada 2024; PQRA guidance
RECR	Adolescent	BW	5.97E+01	kg	Health Canada 2024; PQRA guidance
RECR	Adult	BW	7.07E+01	kg	Health Canada 2024; PQRA guidance
RECR	Child	BW	3.29E+01	kg	Health Canada 2024; PQRA guidance
RECR	Infant	BW	8.20E+00	kg	Health Canada 2024; PQRA guidance
RECR	Toddler	BW	1.65E+01	kg	Health Canada 2024; PQRA guidance
RESI	Adolescent	BW	5.97E+01	kg	Health Canada 2024; PQRA guidance
RESI	Adult	BW	7.07E+01	kg	Health Canada 2024; PQRA guidance
RESI	Child	BW	3.29E+01	kg	Health Canada 2024; PQRA guidance
RESI	Infant	BW	8.20E+00	kg	Health Canada 2024; PQRA guidance
RESI	Toddler	BW	1.65E+01	kg	Health Canada 2024; PQRA guidance
URBN	Adolescent	BW	5.97E+01	kg	Health Canada 2024; PQRA guidance
URBN	Adult	BW	7.07E+01	kg	Health Canada 2024; PQRA guidance
URBN	Child	BW	3.29E+01	kg	Health Canada 2024; PQRA guidance
URBN	Infant	BW	8.20E+00	kg	Health Canada 2024; PQRA guidance
URBN	Toddler	BW	1.65E+01	kg	Health Canada 2024; PQRA guidance
COMM	Adolescent	Fish	0.00E+00	kg/day	No consumption of country foods
COMM	Adult	Fish	0.00E+00	kg/day	No consumption of country foods
COMM	Child	Fish	0.00E+00	kg/day	No consumption of country foods
COMM	Infant	Fish	0.00E+00	kg/day	No consumption of country foods
COMM	Toddler	Fish	0.00E+00	kg/day	No consumption of country foods
RECR	Adolescent	Fish	2.20E-02	kg/day	HC 2007; average daily finfish intake recommended for each lifestage (pg. 60 of 76)
RECR	Adult	Fish	2.20E-02	kg/day	HC 2007; average daily finfish intake recommended for each lifestage (pg. 60 of 76)
RECR	Child	Fish	1.41E-02	kg/day	HC 2007; average daily finfish intake recommended for each lifestage (pg. 60 of 76)
RECR	Infant	Fish	0.00E+00	kg/day	HC 2007; average daily finfish intake recommended for each lifestage (pg. 60 of 76)
RECR	Toddler	Fish	9.90E-03	kg/day	HC 2007; average daily finfish intake recommended for each lifestage (pg. 60 of 76)
RESI	Adolescent	Fish	4.00E-02	kg/day	HC 2007; Heavy fish consumers (subsistence or recreational fishing culture) (pg. 66-67 of 76)
RESI	Adult	Fish	4.00E-02	kg/day	HC 2007; Heavy fish consumers (subsistence or recreational fishing culture) (pg. 66-67 of 76)
RESI	Child	Fish	3.32E-02	kg/day	HC 2007; Heavy fish consumers (subsistence or recreational fishing culture) (pg. 66-67 of 76)
RESI	Infant	Fish	0.00E+00	kg/day	HC 2007; Heavy fish consumers (subsistence or recreational fishing culture) (pg. 66-67 of 76)
RESI	Toddler	Fish	2.00E-02	kg/day	HC 2007; Heavy fish consumers (subsistence or recreational fishing culture) (pg. 66-67 of 76)

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
URBN	Adolescent	Fish	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Adult	Fish	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Child	Fish	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Infant	Fish	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Toddler	Fish	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
COMM	Adolescent	Grouse	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Adult	Grouse	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Child	Grouse	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Infant	Grouse	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Toddler	Grouse	0.00E+00	kg/day	Assume no game meat consumption for commercial
RECR	Adolescent	Grouse	2.03E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 20% of meat from LSA
RECR	Adult	Grouse	2.12E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 20% of meat from LSA
RECR	Child	Grouse	1.67E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 20% of meat from LSA
RECR	Infant	Grouse	0.00E+00	kg/day	HC 1994; assume poultry, chicken and turkey rates split between grouse and mallard; Assume recerational users consume 20% of resident
RECR	Toddler	Grouse	1.32E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 20% of meat from LSA
RESI	Adolescent	Grouse	1.02E-02	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 100% meat from LSA
RESI	Adult	Grouse	1.06E-02	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 100% meat from LSA
RESI	Child	Grouse	8.36E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 100% meat from LSA
RESI	Infant	Grouse	0.00E+00	kg/day	HC 1994; assume poultry, chicken and turkey rates split between grouse and mallard
RESI	Toddler	Grouse	6.62E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 100% meat from LSA
URBN	Adolescent	Grouse	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Adult	Grouse	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Child	Grouse	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Infant	Grouse	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Toddler	Grouse	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
COMM	Adolescent	Hare	0.00E+00	kg/day	Assume no exposure to Commercial receptor
COMM	Adult	Hare	0.00E+00	kg/day	Assume no exposure to Commercial receptor
COMM	Child	Hare	0.00E+00	kg/day	Assume no exposure to Commercial receptor
COMM	Infant	Hare	0.00E+00	kg/day	Assume no exposure to Commercial receptor
COMM	Toddler	Hare	0.00E+00	kg/day	Assume no exposure to Commercial receptor
RECR	Adolescent	Hare	4.65E-03	kg/day	HC 1994; Assumed consumption rates for roast and stewing beef; 20% of meat from LSA
RECR	Adult	Hare	5.40E-03	kg/day	HC 1994; Assumed consumption rates for roast and stewing beef; 20% of meat from LSA
RECR	Child	Hare	2.44E-03	kg/day	HC 1994; Assumed consumption rates for roast and stewing beef; 20% of meat from LSA
RECR	Infant	Hare	0.00E+00	kg/day	Assumed consumption rates for roast and stewing beef; 20% of resident
RECR	Toddler	Hare	1.30E-03	kg/day	HC 1994; Assumed consumption rates for roast and stewing beef; 20% of meat from LSA
RESI	Adolescent	Hare	2.33E-02	kg/day	HC 1994; Assumed consumption rates for roast and stewing beef; 100% of meat from LSA
RESI	Adult	Hare	2.70E-02	kg/day	HC 1994; Assumed consumption rates for roast and stewing beef; 100% of meat from LSA
RESI	Child	Hare	1.22E-02	kg/day	HC 1994; Assumed consumption rates for roast and stewing beef; 100% of meat from LSA
RESI	Infant	Hare	0.00E+00	kg/day	Assumed consumption rates for roast and stewing beef
RESI	Toddler	Hare	6.49E-03	kg/day	HC 1994; Assumed consumption rates for roast and stewing beef; 100% of meat from LSA
URBN	Adolescent	Hare	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Adult	Hare	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Child	Hare	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Infant	Hare	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Toddler	Hare	0.00E+00	kg/day	Assumed no country food consumption for urban receptor

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
COMM	Adolescent	LAF	1.00E-01	Unitless	Lifetime adjustment factor
COMM	Adult	LAF	7.50E-01	Unitless	Lifetime adjustment factor
COMM	Child	LAF	8.75E-02	Unitless	Lifetime adjustment factor
COMM	Infant	LAF	6.25E-03	Unitless	Lifetime adjustment factor
COMM	Toddler	LAF	5.63E-02	Unitless	Lifetime adjustment factor
RECR	Adolescent	LAF	1.00E-01	Unitless	Lifetime adjustment factor
RECR	Adult	LAF	7.50E-01	Unitless	Lifetime adjustment factor
RECR	Child	LAF	8.75E-02	Unitless	Lifetime adjustment factor
RECR	Infant	LAF	6.25E-03	Unitless	Lifetime adjustment factor
RECR	Toddler	LAF	5.63E-02	Unitless	Lifetime adjustment factor
RESI	Adolescent	LAF	1.00E-01	Unitless	Lifetime adjustment factor
RESI	Adult	LAF	7.50E-01	Unitless	Lifetime adjustment factor
RESI	Child	LAF	8.75E-02	Unitless	Lifetime adjustment factor
RESI	Infant	LAF	6.25E-03	Unitless	Lifetime adjustment factor
RESI	Toddler	LAF	5.63E-02	Unitless	Lifetime adjustment factor
URBN	Adolescent	LAF	1.00E-01	Unitless	Lifetime adjustment factor
URBN	Adult	LAF	7.50E-01	Unitless	Lifetime adjustment factor
URBN	Child	LAF	8.75E-02	Unitless	Lifetime adjustment factor
URBN	Infant	LAF	6.25E-03	Unitless	Lifetime adjustment factor
URBN	Toddler	LAF	5.63E-02	Unitless	Lifetime adjustment factor
COMM	Adolescent	Mallard	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Adult	Mallard	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Child	Mallard	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Infant	Mallard	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Toddler	Mallard	0.00E+00	kg/day	Assume no game meat consumption for commercial
RECR	Adolescent	Mallard	2.03E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 20% of meat from LSA
RECR	Adult	Mallard	2.12E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 20% of meat from LSA
RECR	Child	Mallard	1.67E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 20% of meat from LSA
RECR	Infant	Mallard	0.00E+00	kg/day	HC 1994; assume poultry, chicken and turkey rates split between grouse and mallard; Assume recerational users consume 20% of resident
RECR	Toddler	Mallard	1.32E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 20% of meat from LSA
RESI	Adolescent	Mallard	1.02E-02	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 100% meat from LSA
RESI	Adult	Mallard	1.06E-02	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 100% meat from LSA
RESI	Child	Mallard	8.36E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 100% meat from LSA
RESI	Infant	Mallard	0.00E+00	kg/day	HC 1994; assume poultry, chicken and turkey rates split between grouse and mallard
RESI	Toddler	Mallard	6.62E-03	kg/day	HC 1994; assume poultry, chicken and turkey consumption rates split between grouse and mallard; Assume 100% meat from LSA
URBN	Adolescent	Mallard	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Adult	Mallard	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Child	Mallard	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Infant	Mallard	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Toddler	Mallard	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
COMM	Adolescent	Moose	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Adult	Moose	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Child	Moose	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Infant	Moose	0.00E+00	kg/day	Assume no game meat consumption for commercial
COMM	Toddler	Moose	0.00E+00	kg/day	Assume no game meat consumption for commercial

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
RECR	Adolescent	Moose	1.36E-02	kg/day	HC 1994; consumption rates for total beef/veal/lamb; preferred large game is moose (email from client); Assume recerational users consume 20% of resi
RECR	Adult	Moose	1.38E-02	kg/day	HC 1994; consumption rates for total beef/veal/lamb; preferred large game is moose (email from client); Assume recerational users consume 20% of resi
RECR	Child	Moose	8.19E-03	kg/day	HC 1994; consumption rates for total beef/veal/lamb; preferred large game is moose (email from client); Assume recerational users consume 20% of resi
RECR	Infant	Moose	0.00E+00	kg/day	Assumed
RECR	Toddler	Moose	6.03E-03	kg/day	HC 1994; consumption rates for total beef/veal/lamb; preferred large game is moose (email from client); Assume recerational users consume 20% of resi
RESI	Adolescent	Moose	6.80E-02	kg/day	HC 1994; consumption rates for total beef/veal/lamb; assume 100% of meat from LSA
RESI	Adult	Moose	6.89E-02	kg/day	HC 1994; consumption rates for total beef/veal/lamb; assume 100% of meat from LSA
RESI	Child	Moose	4.09E-02	kg/day	HC 1994; consumption rates for total beef/veal/lamb; assume 100% of meat from LSA
RESI	Infant	Moose	0.00E+00	kg/day	HC 1994; consumption rates for total beef/veal/lamb; preferred large game is moose (email from client)
RESI	Toddler	Moose	3.02E-02	kg/day	HC 1994; consumption rates for total beef/veal/lamb; assume 100% of meat from LSA
URBN	Adolescent	Moose	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Adult	Moose	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Child	Moose	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Infant	Moose	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Toddler	Moose	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
COMM	Adolescent	SA_Hand	8.00E+02	cm^2	Health Canada 2017
COMM	Adult	SA_Hand	8.90E+02	cm^2	Health Canada 2017
COMM	Child	SA_Hand	5.90E+02	cm^2	Health Canada 2017
COMM	Infant	SA_Hand	0.00E+00	cm^2	Health Canada 2017
COMM	Toddler	SA_Hand	4.30E+02	cm^2	Health Canada 2017
RECR	Adolescent	SA_Hand	8.00E+02	cm^2	Health Canada 2017
RECR	Adult	SA_Hand	8.90E+02	cm^2	Health Canada 2017
RECR	Child	SA_Hand	5.90E+02	cm^2	Health Canada 2017
RECR	Infant	SA_Hand	0.00E+00	cm^2	Health Canada 2017
RECR	Toddler	SA_Hand	4.30E+02	cm^2	Health Canada 2017
RESI	Adolescent	SA_Hand	8.00E+02	cm^2	Health Canada 2017
RESI	Adult	SA_Hand	8.90E+02	cm^2	Health Canada 2017
RESI	Child	SA_Hand	5.90E+02	cm^2	Health Canada 2017
RESI	Infant	SA_Hand	0.00E+00	cm^2	Health Canada 2017
RESI	Toddler	SA_Hand	4.30E+02	cm^2	Health Canada 2017
URBN	Adolescent	SA_Hand	8.00E+02	cm^2	Health Canada 2017
URBN	Adult	SA_Hand	8.90E+02	cm^2	Health Canada 2017
URBN	Child	SA_Hand	5.90E+02	cm^2	Health Canada 2017
URBN	Infant	SA_Hand	0.00E+00	cm^2	Health Canada 2017
URBN	Toddler	SA_Hand	4.30E+02	cm^2	Health Canada 2017
COMM	Adolescent	SAH	8.00E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
COMM	Adult	SAH	8.90E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
COMM	Child	SAH	5.90E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
COMM	Infant	SAH	3.20E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
COMM	Toddler	SAH	4.30E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RECR	Adolescent	SAH	8.00E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RECR	Adult	SAH	8.90E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
RECR	Child	SAH	5.90E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RECR	Infant	SAH	3.20E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RECR	Toddler	SAH	4.30E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RESI	Adolescent	SAH	8.00E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RESI	Adult	SAH	8.90E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RESI	Child	SAH	5.90E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RESI	Infant	SAH	3.20E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
RESI	Toddler	SAH	4.30E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
URBN	Adolescent	SAH	8.00E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
URBN	Adult	SAH	8.90E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
URBN	Child	SAH	5.90E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
URBN	Infant	SAH	3.20E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
URBN	Toddler	SAH	4.30E+02	cm^2	Health Canada 2024; PQRA guidance; Surface area hands
COMM	Adolescent	SAO	7.20E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
COMM	Adult	SAO	8.22E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
COMM	Child	SAO	4.55E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
COMM	Infant	SAO	1.71E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
COMM	Toddler	SAO	2.58E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
RECR	Adolescent	SAO	7.20E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
RECR	Adult	SAO	8.22E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
RECR	Child	SAO	4.55E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
RECR	Infant	SAO	1.71E+03	cm^2	HC 2021; Surface area other; arms, legs, and feet
RECR	Toddler	SAO	2.58E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
RESI	Adolescent	SAO	7.20E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
RESI	Adult	SAO	8.22E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
RESI	Child	SAO	4.55E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
RESI	Infant	SAO	1.71E+03	cm^2	HC 2021; Surface area other; arms, legs, and feet
RESI	Toddler	SAO	2.58E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
URBN	Adolescent	SAO	7.20E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
URBN	Adult	SAO	8.22E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
URBN	Child	SAO	4.55E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
URBN	Infant	SAO	1.71E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
URBN	Toddler	SAO	2.58E+03	cm^2	HC 2021; Surface area other, arms and legs. Assumed wearing footwear
COMM	Adolescent	SAT	1.55E+04	cm^2	Surface area total
COMM	Adult	SAT	1.76E+04	cm^2	Surface area total
COMM	Child	SAT	1.01E+04	cm^2	Surface area total
COMM	Infant	SAT	3.62E+03	cm^2	Surface area total
COMM	Toddler	SAT	6.13E+03	cm^2	Surface area total
RECR	Adolescent	SAT	1.55E+04	cm^2	Surface area total
RECR	Adult	SAT	1.76E+04	cm^2	Surface area total

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
RECR	Child	SAT	1.01E+04	cm^2	Surface area total
RECR	Infant	SAT	3.62E+03	cm^2	Surface area total
RECR	Toddler	SAT	6.13E+03	cm^2	Surface area total
RESI	Adolescent	SAT	1.55E+04	cm^2	Surface area total
RESI	Adult	SAT	1.76E+04	cm^2	Surface area total
RESI	Child	SAT	1.01E+04	cm^2	Surface area total
RESI	Infant	SAT	3.62E+03	cm^2	Surface area total
RESI	Toddler	SAT	6.13E+03	cm^2	Surface area total
URBN	Adolescent	SAT	1.55E+04	cm^2	Surface area total
URBN	Adult	SAT	1.76E+04	cm^2	Surface area total
URBN	Child	SAT	1.01E+04	cm^2	Surface area total
URBN	Infant	SAT	3.62E+03	cm^2	Surface area total
URBN	Toddler	SAT	6.13E+03	cm^2	Surface area total
COMM	Adolescent	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
COMM	Adult	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
COMM	Child	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
COMM	Infant	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
COMM	Toddler	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RECR	Adolescent	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RECR	Adult	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RECR	Child	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RECR	Infant	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RECR	Toddler	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RESI	Adolescent	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RESI	Adult	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RESI	Child	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RESI	Infant	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
RESI	Toddler	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
URBN	Adolescent	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
URBN	Adult	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
URBN	Child	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
URBN	Infant	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
URBN	Toddler	SDerm_EF	1.00E+00	Unitless	Soil dermal exposure exposure frequency; Assumed exposure term 1 or 12 months / 12 months
COMM	Adolescent	SIR	2.00E-05	kg/day	Soil ingestion rate
COMM	Adult	SIR	2.00E-05	kg/day	Soil ingestion rate
COMM	Child	SIR	2.00E-05	kg/day	Soil ingestion rate
COMM	Infant	SIR	2.00E-05	kg/day	Soil ingestion rate
COMM	Toddler	SIR	8.00E-05	kg/day	Soil ingestion rate
RECR	Adolescent	SIR	2.00E-05	kg/day	Soil ingestion rate
RECR	Adult	SIR	2.00E-05	kg/day	Soil ingestion rate
RECR	Child	SIR	2.00E-05	kg/day	Soil ingestion rate
RECR	Infant	SIR	2.00E-05	kg/day	Soil ingestion rate
RECR	Toddler	SIR	8.00E-05	kg/day	Soil ingestion rate
RESI	Adolescent	SIR	2.00E-05	kg/day	Soil ingestion rate

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
RESI	Adult	SIR	2.00E-05	kg/day	Soil ingestion rate
RESI	Child	SIR	2.00E-05	kg/day	Soil ingestion rate
RESI	Infant	SIR	2.00E-05	kg/day	Soil ingestion rate
RESI	Toddler	SIR	8.00E-05	kg/day	Soil ingestion rate
URBN	Adolescent	SIR	2.00E-05	kg/day	Soil ingestion rate
URBN	Adult	SIR	2.00E-05	kg/day	Soil ingestion rate
URBN	Child	SIR	2.00E-05	kg/day	Soil ingestion rate
URBN	Infant	SIR	2.00E-05	kg/day	Soil ingestion rate
URBN	Toddler	SIR	8.00E-05	kg/day	Soil ingestion rate
COMM	Adolescent	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
COMM	Adult	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
COMM	Child	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
COMM	Infant	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
COMM	Toddler	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RECR	Adolescent	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RECR	Adult	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RECR	Child	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RECR	Infant	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RECR	Toddler	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RESI	Adolescent	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RESI	Adult	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RESI	Child	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RESI	Infant	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
RESI	Toddler	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
URBN	Adolescent	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
URBN	Adult	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
URBN	Child	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
URBN	Infant	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
URBN	Toddler	SIR_EF	1.00E+00	Unitless	Soil ingestion rate exposure term assumed to be 1 (12 months / 12 months)
COMM	Adolescent	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
COMM	Adult	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
COMM	Child	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
COMM	Infant	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
COMM	Toddler	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RECR	Adolescent	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RECR	Adult	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RECR	Child	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RECR	Infant	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RECR	Toddler	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RESI	Adolescent	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RESI	Adult	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RESI	Child	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
RESI	Infant	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
RESI	Toddler	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
URBN	Adolescent	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
URBN	Adult	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
URBN	Child	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
URBN	Infant	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
URBN	Toddler	SLH	1.00E-07	$kg/cm^2/day$	Health Canada 2024; Skin loading hands
COMM	Adolescent	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
COMM	Adult	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
COMM	Child	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
COMM	Infant	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
COMM	Toddler	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RECR	Adolescent	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RECR	Adult	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RECR	Child	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RECR	Infant	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RECR	Toddler	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RESI	Adolescent	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RESI	Adult	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RESI	Child	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RESI	Infant	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
RESI	Toddler	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
URBN	Adolescent	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
URBN	Adult	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
URBN	Child	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
URBN	Infant	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
URBN	Toddler	SLO	1.00E-08	$kg/cm^2/day$	Health Canada 2024; Skin loading other
COMM	Adolescent	SWIM	0.00E+00	L/hr	Assumed not a relevant pathway
COMM	Adult	SWIM	0.00E+00	L/hr	Assumed not a relevant pathway
COMM	Child	SWIM	0.00E+00	L/hr	Assumed not a relevant pathway
COMM	Infant	SWIM	0.00E+00	L/hr	Assumed not a relevant pathway
COMM	Toddler	SWIM	0.00E+00	L/hr	Assumed not a relevant pathway
RECR	Adolescent	SWIM	3.30E-02	L/hr	US EPA 2019 Swimming water ingestion rate inadvertant
RECR	Adult	SWIM	2.80E-02	L/hr	US EPA 2019 Swimming water ingestion rate inadvertant
RECR	Child	SWIM	4.40E-02	L/hr	Swimming water ingestion rate inadvertant; Assume age group 11-16 to be conservative
RECR	Infant	SWIM	0.00E+00	L/hr	USEPA 2019 Swimming water ingestion rate inadvertant; assumed 0 for infants
RECR	Toddler	SWIM	4.40E-02	L/hr	US EPA 2019 Swimming water ingestion rate inadvertant; assume most conservative for toddler
RESI	Adolescent	SWIM	3.30E-02	L/hr	US EPA 2019 Swimming water ingestion rate inadvertant
RESI	Adult	SWIM	2.80E-02	L/hr	US EPA 2019 Swimming water ingestion rate inadvertant
RESI	Child	SWIM	4.40E-02	L/hr	Swimming water ingestion rate inadvertant; Assume age group 11-16 to be conservative
RESI	Infant	SWIM	0.00E+00	L/hr	USEPA 2019 Swimming water ingestion rate inadvertant; assumed 0 for infants
RESI	Toddler	SWIM	4.40E-02	L/hr	US EPA 2019 Swimming water ingestion rate inadvertant; assume most conservative for toddler
URBN	Adolescent	SWIM	0.00E+00	L/hr	Assume no exposure to urban receptor

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
URBN	Adult	SWIM	0.00E+00	L/hr	Assume no exposure to urban receptor
URBN	Child	SWIM	0.00E+00	L/hr	Assume no exposure to urban receptor
URBN	Infant	SWIM	0.00E+00	L/hr	Assume no exposure to urban receptor
URBN	Toddler	SWIM	0.00E+00	L/hr	Assume no exposure to urban receptor
COMM	Adolescent	SWIM_ED	0.00E+00	hr/day	Assumed
COMM	Adult	SWIM_ED	0.00E+00	hr/day	Assumed
COMM	Child	SWIM_ED	0.00E+00	hr/day	Assumed
COMM	Infant	SWIM_ED	0.00E+00	hr/day	Assumed
COMM	Toddler	SWIM_ED	0.00E+00	hr/day	Assumed
RECR	Adolescent	SWIM_ED	2.00E+00	hr/day	Assumed
RECR	Adult	SWIM_ED	2.00E+00	hr/day	Assumed
RECR	Child	SWIM_ED	2.00E+00	hr/day	Assumed
RECR	Infant	SWIM_ED	0.00E+00	hr/day	Assumed
RECR	Toddler	SWIM_ED	2.00E+00	hr/day	Assumed
RESI	Adolescent	SWIM_ED	2.00E+00	hr/day	Assumed
RESI	Adult	SWIM_ED	2.00E+00	hr/day	Assumed
RESI	Child	SWIM_ED	2.00E+00	hr/day	Assumed
RESI	Infant	SWIM_ED	0.00E+00	hr/day	Assumed
RESI	Toddler	SWIM_ED	2.00E+00	hr/day	Assumed
URBN	Adolescent	SWIM_ED	0.00E+00	hr/day	Assume no exposure to urban receptor
URBN	Adult	SWIM_ED	0.00E+00	hr/day	Assume no exposure to urban receptor
URBN	Child	SWIM_ED	0.00E+00	hr/day	Assume no exposure to urban receptor
URBN	Infant	SWIM_ED	0.00E+00	hr/day	Assume no exposure to urban receptor
URBN	Toddler	SWIM_ED	0.00E+00	hr/day	Assume no exposure to urban receptor
COMM	Adolescent	SWIM_EF	0.00E+00	Unitless	Assume no exposure to commercial receptor
COMM	Adult	SWIM_EF	0.00E+00	Unitless	Assume no exposure to commercial receptor
COMM	Child	SWIM_EF	0.00E+00	Unitless	Assume no exposure to commercial receptor
COMM	Infant	SWIM_EF	0.00E+00	Unitless	Assume no exposure to commercial receptor
COMM	Toddler	SWIM_EF	0.00E+00	Unitless	Assume no exposure to commercial receptor
RECR	Adolescent	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RECR	Adult	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RECR	Child	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RECR	Infant	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RECR	Toddler	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RESI	Adolescent	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RESI	Adult	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RESI	Child	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RESI	Infant	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
RESI	Toddler	SWIM_EF	1.00E+00	Unitless	Assumed 12 month / 12 months
URBN	Adolescent	SWIM_EF	0.00E+00	Unitless	Assume no exposure to urban receptor
URBN	Adult	SWIM_EF	0.00E+00	Unitless	Assume no exposure to urban receptor
URBN	Child	SWIM_EF	0.00E+00	Unitless	Assume no exposure to urban receptor
URBN	Infant	SWIM_EF	0.00E+00	Unitless	Assume no exposure to urban receptor
URBN	Toddler	SWIM_EF	0.00E+00	Unitless	Assume no exposure to urban receptor
COMM	Adolescent	TradPlant	0.00E+00	kg/day	Assumed

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
COMM	Adult	TradPlant	0.00E+00	kg/day	Assumed
COMM	Child	TradPlant	0.00E+00	kg/day	Assumed
COMM	Infant	TradPlant	0.00E+00	kg/day	Assumed
COMM	Toddler	TradPlant	0.00E+00	kg/day	Assumed
RECR	Adolescent	TradPlant	7.18E-04	kg/day	Assumed conumption rate is 20% of permenant cabin resident rate
RECR	Adult	TradPlant	8.20E-04	kg/day	Assumed conumption rate is 20% of permenant cabin resident rate
RECR	Child	TradPlant	5.87E-04	kg/day	Assumed conumption rate is 20% of permenant cabin resident rate
RECR	Infant	TradPlant	0.00E+00	kg/day	Assume no food consumption for infant
RECR	Toddler	TradPlant	4.01E-04	kg/day	Assumed conumption rate is 20% of permenant cabin resident rate
RESI	Adolescent	TradPlant	3.59E-03	kg/day	Adult consumption rates from FNFNES, used Richardson 1997 "other vegetables" ratios to get toddler and child rates.
RESI	Adult	TradPlant	4.10E-03	kg/day	Adult consumption rates from FNFNES, used Richardson 1997 "other vegetables" ratios to get toddler and child rates.
RESI	Child	TradPlant	2.93E-03	kg/day	Adult consumption rates from FNFNES, used Richardson 1997 "other vegetables" ratios to get toddler and child rates.
RESI	Infant	TradPlant	0.00E+00	kg/day	Assume no food consumption for infant
RESI	Toddler	TradPlant	2.01E-03	kg/day	Adult consumption rates from FNFNES, used Richardson 1997 "other vegetables" ratios to get toddler and child rates.
URBN	Adolescent	TradPlant	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Adult	TradPlant	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Child	TradPlant	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Infant	TradPlant	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
URBN	Toddler	TradPlant	0.00E+00	kg/day	Assumed no country food consumption for urban receptor
COMM	Adolescent	WIR	0.00E+00	L/day	Assumed
COMM	Adult	WIR	0.00E+00	L/day	Assumed
COMM	Child	WIR	0.00E+00	L/day	Assumed
COMM	Infant	WIR	0.00E+00	L/day	Assumed
COMM	Toddler	WIR	0.00E+00	L/day	Assumed
RECR	Adolescent	WIR	1.00E+00	L/day	Water ingestion rate for drinking
RECR	Adult	WIR	1.50E+00	L/day	Water ingestion rate for drinking
RECR	Child	WIR	8.00E-01	L/day	Water ingestion rate for drinking
RECR	Infant	WIR	3.00E-01	L/day	Water ingestion rate for drinking
RECR	Toddler	WIR	6.00E-01	L/day	Water ingestion rate for drinking
RESI	Adolescent	WIR	1.00E+00	L/day	Water ingestion rate for drinking
RESI	Adult	WIR	1.50E+00	L/day	Water ingestion rate for drinking
RESI	Child	WIR	8.00E-01	L/day	Water ingestion rate for drinking
RESI	Infant	WIR	3.00E-01	L/day	Water ingestion rate for drinking
RESI	Toddler	WIR	6.00E-01	L/day	Water ingestion rate for drinking
URBN	Adolescent	WIR	0.00E+00	L/day	Assumed not drinking surface water
URBN	Adult	WIR	0.00E+00	L/day	Assumed not drinking surface water
URBN	Child	WIR	0.00E+00	L/day	Assumed not drinking surface water
URBN	Infant	WIR	0.00E+00	L/day	Assumed not drinking surface water
URBN	Toddler	WIR	0.00E+00	L/day	Assumed not drinking surface water
COMM	Adolescent	WIR_EF	0.00E+00	Unitless	Assumed
COMM	Adult	WIR_EF	0.00E+00	Unitless	Assumed
COMM	Child	WIR_EF	0.00E+00	Unitless	Assumed
COMM	Infant	WIR_EF	0.00E+00	Unitless	Assumed
COMM	Toddler	WIR_EF	0.00E+00	Unitless	Assumed
RECR	Adolescent	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months

Table 1-13: Human Exposure Variables

Receptor	Lifestage	Pathway	Value	Units	Reference / Comment
RECR	Adult	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
RECR	Child	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
RECR	Infant	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
RECR	Toddler	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
RESI	Adolescent	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
RESI	Adult	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
RESI	Child	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
RESI	Infant	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
RESI	Toddler	WIR_EF	1.00E+00	Unitless	Assumed 12 months / 12 months
URBN	Adolescent	WIR_EF	0.00E+00	Unitless	Assumed
URBN	Adult	WIR_EF	0.00E+00	Unitless	Assumed
URBN	Child	WIR_EF	0.00E+00	Unitless	Assumed
URBN	Infant	WIR_EF	0.00E+00	Unitless	Assumed
URBN	Toddler	WIR_EF	0.00E+00	Unitless	Assumed

Table 1-14: Toxicity Reference Values [mg/kg/day]					
Chemical	TRV Type	Oral Exposure Limit (Dietary)	Oral Exposure Limit (Water)	Oral Exposure Limit (Soil)	Reference / Comment
Arsenic	RfD	6.00E-05	6.00E-05	6.00E-05	US EPA IRIS 2025
Arsenic_cancer	SF	1.80E+00	1.80E+00	1.80E+00	Health Canada 2021
Barium	RfD	2.00E-01	2.00E-01	2.00E-01	Health Canada 2021
Beryllium	RfD	2.00E-03	2.00E-03	2.00E-03	Health Canada 2021
Chromium	RfD	1.50E+00	1.50E+00	1.50E+00	Health Canada 2021; Cr III because Cr VI is unlikley to be present at the site
Cobalt	RfD	3.00E-04	3.00E-04	3.00E-04	US EPA PPRTV 2008
Iron	RfD	7.00E-01	7.00E-01	7.00E-01	US EPA PPRTV 2006
Lead	RfD	5.00E-04	5.00E-04	5.00E-04	Health Canada 2021
Manganese	RfD	1.40E-01	2.50E-02	4.80E-02	Health Canada 2021; Drinking water. US EPA IRIS 1995; Dietary, Soil
MercuryIng	RfD	3.00E-04	3.00E-04	3.00E-04	Health Canada 2021
Mercury	RfD	2.00E-04	2.00E-04	2.00E-04	Health Canada 2021; Standard for women of child bearing age and children under 12
MercuryMethyl	RfD	2.00E-04	2.00E-04	2.00E-04	Health Canada 2021; Standard for women of child bearing age and children under 12
Molybdenum	RfD	5.00E-03	5.00E-03	5.00E-03	US EPA IRIS 1992
Selenium	RfD	5.50E-03	5.50E-03	5.50E-03	Health Canada 2021; standard for children 0-6 months old

Table 1-15: Dermal Relative Absorption Factors

Chemical	Value	Reference / Comment
Arsenic	3.0%	Health Canada 2021 TRV
Barium	10.0%	Health Canada 2021 TRV
Beryllium	10.0%	Health Canada 2021 TRV
Chromium	10.0%	Health Canada 2021 TRV
Cobalt	10.0%	Assumed value based on other metals
MercuryIng	100.0%	Assumed same as mercury
Iron	10.0%	Assumed value based on other metals
Lead	0.6%	Health Canada 2021 TRV
Manganese	10.0%	Assumed value based on other metals
Mercury	100.0%	Health Canada 2021 TRV
MercuryMethyl	100.0%	Assumed same as mercury
Molybdenum	10.0%	Assumed value based on other metals
Selenium	1.0%	Health Canada 2021 TRV

Table 1-16: Dermal Permeability Coefficient in Water [cm/hr]

Chemical	Value	Reference / Comment
Arsenic	0.001	US EPA 2004
Barium	0.001	US EPA 2004
Beryllium	0.001	US EPA 2004
Chromium	0.001	US EPA 2004; Cr III because Cr VI is unlikely to occur in particulates at site
Cobalt	0.0004	US EPA 2004
Iron	0.001	US EPA 2004; assumed default rate
Lead	0.0001	US EPA 2004
Manganese	0.001	US EPA 2004
Mercury	0.001	US EPA 2004
MercuryIng	0.001	Assumed same as mercury
MercuryMethyl	0.001	Assumed same as mercury
Molybdenum	0.001	US EPA 2004; assumed default rate
Selenium	0.001	US EPA 2004

ATTACHMENT F2

Wildlife Exposure Model

ATTACHMENT F2: WILDLIFE EXPOSURE MODEL

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In the ERA model the assessment cases are represented by the following terms:
Base = Base Case
Project = Base Case + Incremental Concentrations from Operations
Closure = Base Case + Incremental Concentrations from Closure
Post Closure = Base Case + Incremental Concentrations from Post Closure
Project-Base = Incremental Concentrations from Operations alone
Closure-Base = Incremental Concentrations from Closure alone
Post Closure-Base = Incremental Concentrations from Post Closure alone

Abbreviations:
A_Inverts = Aquatic Invertebrates
AIR = Air inhalation rate/dust ingestion rate
Aq_plants = Aquatic plants
BAF = Bioaccumulation factor
BTF = Biotransfer factor
BW= Body weight
COPC= Constiuent of potential concern
DW = Dry weight
EPC= Exposure point concentration
FIR= Food ingestion rate
NA= Not applicable or not available
P_SIR = Percent soil ingestion rate

SIR= Soil ingestion rate
T_inverts = Terrestrial invertebrates
WIR= Water ingestion rate
WW= Wet weight

Table 2-1: Exposure Point Concentrations Used to Predict Wildlife Exposure

		Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Sediment	Browse	Browse	Browse	A_inverts	T_inverts	Aq_plants
		Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Sediment	Soil	Deposition	Total	Surface Water	Soil	Surface Water
Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg]	[mg/kg-DW]	[mg/kg-DW]	[mg/kg-DW]	[mg/kg-DW]	[mg/kg-DW]	[mg/kg-DW]
Base	Arsenic	0.00E+00	2.15E+00	0.00E+00	2.15E+00	2.15E+00	0.00E+00	2.15E+00	1.63E-09	2.03E-04	2.42E+00	2.10E-01	0.00E+00	2.10E-01	8.87E-02	4.15E-01	1.73E-01
Base	Barium	0.00E+00	1.22E+02	0.00E+00	1.22E+02	1.22E+02	0.00E+00	1.22E+02	9.27E-08	1.71E-02	1.74E+03	1.90E+01	0.00E+00	1.90E+01	2.05E+01	1.61E+02	1.30E+01
Base	Beryllium	0.00E+00	2.90E-01	0.00E+00	2.90E-01	2.90E-01	0.00E+00	2.90E-01	2.20E-10	9.25E-05	2.36E-01	2.36E-01	0.00E+00	2.36E-01	2.49E-02	3.82E-01	3.80E-02
Base	Chromium	0.00E+00	7.05E+01	0.00E+00	7.05E+01	7.05E+01	0.00E+00	7.05E+01	5.36E-08	1.14E-03	3.94E+01	2.89E+00	0.00E+00	2.89E+00	2.05E+01	8.99E+00	1.46E+01
Base	Cobalt	0.00E+00	1.20E+01	0.00E+00	1.20E+01	1.20E+01	0.00E+00	1.20E+01	9.12E-09	1.39E-04	9.68E+00	8.94E-02	0.00E+00	8.94E-02	2.33E-02	1.46E+00	1.34E-02
Base	Iron	0.00E+00	8.05E+04	0.00E+00	8.05E+04	8.05E+04	0.00E+00	8.05E+04	6.12E-05	1.16E-01	9.30E+04	3.42E+02	0.00E+00	3.42E+02	2.08E+03	2.90E+03	1.49E+03
Base	Lead	0.00E+00	7.75E+00	0.00E+00	7.75E+00	7.75E+00	0.00E+00	7.75E+00	5.89E-09	7.45E-04	4.92E+00	8.36E-01	0.00E+00	8.36E-01	2.26E+01	4.20E+00	3.71E+00
Base	Manganese	0.00E+00	1.50E+03	0.00E+00	1.50E+03	1.50E+03	0.00E+00	1.50E+03	1.14E-06	5.05E-01	1.98E+04	1.19E+02	0.00E+00	1.19E+02	9.07E+03	6.53E+01	6.49E+03
Base	Mercury	0.00E+00	5.00E-02	0.00E+00	5.00E-02	5.00E-02	0.00E+00	5.00E-02	3.80E-11	3.53E-05	5.00E-02	7.24E-02	0.00E+00	7.24E-02	1.16E+01	3.54E-01	2.55E+00
Base	Molybdenum	0.00E+00	9.45E-01	0.00E+00	9.45E-01	9.45E-01	0.00E+00	9.45E-01	7.18E-10	7.33E-04	1.88E+01	2.36E-01	0.00E+00	2.36E-01	1.32E+01	9.01E-01	9.42E+00
Base	Selenium	0.00E+00	5.00E-01	0.00E+00	5.00E-01	5.00E-01	0.00E+00	5.00E-01	3.80E-10	3.57E-04	5.00E-01	2.36E-01	0.00E+00	2.36E-01	2.70E+00	6.59E-01	1.92E+00
Project	Arsenic	2.56E+00	2.15E+00	1.60E-01	2.31E+00	2.15E+00	1.60E+00	3.75E+00	2.85E-09	4.56E-04	2.42E+00	2.19E-01	2.82E-02	2.47E-01	1.99E-01	4.36E-01	3.89E-01
Project	Barium	1.47E+02	1.22E+02	9.21E+00	1.31E+02	1.22E+02	9.21E+01	2.14E+02	1.63E-07	1.34E-02	1.74E+03	2.05E+01	1.62E+00	2.21E+01	1.60E+01	1.73E+02	1.01E+01
Project	Beryllium	5.38E-01	2.90E-01	3.36E-02	3.24E-01	2.90E-01	3.36E-01	6.26E-01	4.76E-10	1.38E-04	2.36E-01	2.55E-01	5.93E-03	2.61E-01	3.72E-02	4.26E-01	5.67E-02
Project	Chromium	3.64E+01	7.05E+01	2.28E+00	7.28E+01	7.05E+01	2.28E+01	9.33E+01	7.09E-08	1.36E-03	3.94E+01	2.98E+00	4.02E-01	3.39E+00	2.45E+01	8.97E+00	1.75E+01
Project	Cobalt	5.63E+00	1.20E+01	3.52E-01	1.24E+01	1.20E+01	3.52E+00	1.55E+01	1.18E-08	1.63E-03	9.68E+00	9.20E-02	6.21E-02	1.54E-01	2.73E-01	1.51E+00	1.56E-01
Project	Iron	5.42E+04	8.05E+04	3.39E+03	8.39E+04	8.05E+04	3.39E+04	1.14E+05	8.70E-05	1.87E-01	9.30E+04	3.57E+02	5.98E+02	9.55E+02	3.36E+03	3.02E+03	2.40E+03
Project	Lead	5.63E+00	7.75E+00	3.52E-01	8.10E+00	7.75E+00	3.52E+00	1.13E+01	8.56E-09	1.84E-04	4.92E+00	8.57E-01	6.21E-02	9.19E-01	5.57E+00	4.35E+00	9.15E-01
Project	Manganese	2.12E+03	1.50E+03	1.33E+02	1.63E+03	1.50E+03	1.33E+03	2.83E+03	2.15E-06	9.76E-02	1.98E+04	1.29E+02	2.34E+01	1.53E+02	1.75E+03	6.92E+01	1.25E+03
Project	Mercury	4.14E-03	5.00E-02	2.59E-04	5.03E-02	5.00E-02	2.59E-03	5.26E-02	4.00E-11	3.50E-05	5.00E-02	7.26E-02	4.56E-05	7.26E-02	1.15E+01	3.55E-01	2.53E+00
Project	Molybdenum	1.21E+01	9.45E-01	7.55E-01	1.70E+00	9.45E-01	7.55E+00	8.50E+00	6.46E-09	2.44E-03	1.88E+01	4.25E-01	1.33E-01	5.58E-01	4.39E+01	1.62E+00	3.14E+01
Project	Selenium	7.58E-01	5.00E-01	4.74E-02	5.47E-01	5.00E-01	4.74E-01	9.74E-01	7.40E-10	9.69E-04	5.00E-01	2.61E-01	8.36E-03	2.69E-01	7.33E+00	7.21E-01	5.21E+00
Closure	Arsenic	2.56E+00	2.15E+00	1.60E-01	2.31E+00	2.15E+00	1.60E+00	3.75E+00	2.85E-09	3.55E-04	2.42E+00	2.19E-01	2.82E-02	2.47E-01	1.55E-01	4.36E-01	3.03E-01
Closure	Barium	1.47E+02	1.22E+02	9.21E+00	1.31E+02	1.22E+02	9.21E+01	2.14E+02	1.63E-07	1.33E-02	1.74E+03	2.05E+01	1.62E+00	2.21E+01	1.59E+01	1.73E+02	1.01E+01
Closure	Beryllium	5.38E-01	2.90E-01	3.36E-02	3.24E-01	2.90E-01	3.36E-01	6.26E-01	4.76E-10	1.19E-04	2.36E-01	2.55E-01	5.93E-03	2.61E-01	3.21E-02	4.26E-01	4.90E-02
Closure	Chromium	3.64E+01	7.05E+01	2.28E+00	7.28E+01	7.05E+01	2.28E+01	9.33E+01	7.09E-08	1.26E-03	3.94E+01	2.98E+00	4.02E-01	3.39E+00	2.26E+01	8.97E+00	1.62E+01
Closure	Cobalt	5.63E+00	1.20E+01	3.52E-01	1.24E+01	1.20E+01	3.52E+00	1.55E+01	1.18E-08	1.04E-03	9.68E+00	9.20E-02	6.21E-02	1.54E-01	1.74E-01	1.51E+00	1.00E-01
Closure	Iron	5.42E+04	8.05E+04	3.39E+03	8.39E+04	8.05E+04	3.39E+04	1.14E+05	8.70E-05	1.53E-01	9.30E+04	3.57E+02	5.98E+02	9.55E+02	2.74E+03	3.02E+03	1.96E+03
Closure	Lead	5.63E+00	7.75E+00	3.52E-01	8.10E+00	7.75E+00	3.52E+00	1.13E+01	8.56E-09	1.73E-04	4.92E+00	8.57E-01	6.21E-02	9.19E-01	5.24E+00	4.35E+00	8.61E-01
Closure	Manganese	2.12E+03	1.50E+03	1.33E+02	1.63E+03	1.50E+03	1.33E+03	2.83E+03	2.15E-06	7.40E-02	1.98E+04	1.29E+02	2.34E+01	1.53E+02	1.33E+03	6.92E+01	9.51E+02
Closure	Mercury	4.14E-03	5.00E-02	2.59E-04	5.03E-02	5.00E-02	2.59E-03	5.26E-02	4.00E-11	3.51E-05	5.00E-02	7.26E-02	4.56E-05	7.26E-02	1.15E+01	3.55E-01	2.53E+00
Closure	Molybdenum	1.21E+01	9.45E-01	7.55E-01	1.70E+00	9.45E-01	7.55E+00	8.50E+00	6.46E-09	1.78E-03	1.88E+01	4.25E-01	1.33E-01	5.58E-01	3.20E+01	1.62E+00	2.29E+01
Closure	Selenium	7.58E-01	5.00E-01	4.74E-02	5.47E-01	5.00E-01	4.74E-01	9.74E-01	7.40E-10	7.28E-04	5.00E-01	2.61E-01	8.36E-03	2.69E-01	5.50E+00	7.21E-01	3.92E+00
Post Closure	Arsenic	2.56E+00	2.15E+00	1.60E-01	2.31E+00	2.15E+00	1.60E+00	3.75E+00	2.85E-09	5.40E-04	2.42E+00	2.19E-01	2.82E-02	2.47E-01	2.36E-01	4.36E-01	4.61E-01
Post Closure	Barium	1.47E+02	1.22E+02	9.21E+00	1.31E+02	1.22E+02	9.21E+01	2.14E+02	1.63E-07	1.31E-02	1.74E+03	2.05E+01	1.62E+00	2.21E+01	1.57E+01	1.73E+02	9.93E+00
Post Closure	Beryllium	5.38E-01	2.90E-01	3.36E-02	3.24E-01	2.90E-01	3.36E-01	6.26E-01	4.76E-10	1.13E-04	2.36E-01	2.55E-01	5.93E-03	2.61E-01	3.03E-02	4.26E-01	4.63E-02
Post Closure	Chromium	3.64E+01	7.05E+01	2.28E+00	7.28E+01	7.05E+01	2.28E+01	9.33E+01	7.09E-08	1.16E-03	3.94E+01	2.98E+00	4.02E-01	3.39E+00	2.08E+01	8.97E+00	1.49E+01
Post Closure	Cobalt	5.63E+00	1.20E+01	3.52E-01	1.24E+01	1.20E+01	3.52E+00	1.55E+01	1.18E-08	5.78E-04	9.68E+00	9.20E-02	6.21E-02	1.54E-01	9.70E-02	1.51E+00	5.57E-02
Post Closure	Iron	5.42E+04	8.05E+04	3.39E+03	8.39E+04	8.05E+04	3.39E+04	1.14E+05	8.70E-05	1.79E-01	9.30E+04	3.57E+02	5.98E+02	9.55E+02	3.22E+03	3.02E+03	2.30E+03
Post Closure	Lead	5.63E+00	7.75E+00	3.52E-01	8.10E+00	7.75E+00	3.52E+00	1.13E+01	8.56E-09	1.56E-04	4.92E+00	8.57E-01	6.21E-02	9.19E-01	4.73E+00	4.35E+00	7.77E-01
Post Closure	Manganese	2.12E+03	1.50E+03	1.33E+02	1.63E+03	1.50E+03	1.33E+03	2.83E+03	2.15E-06	6.85E-02	1.98E+04	1.29E+02	2.34E+01	1.53E+02	1.23E+03	6.92E+01	8.80E+02
Post Closure	Mercury	4.14E-03	5.00E-02	2.59E-04	5.03E-02	5.00E-02	2.59E-03	5.26E-02	4.00E-11	3.46E-05	5.00E-02	7.26E-02	4.56E-05	7.26E-02	1.14E+01	3.55E-01	2.50E+00
Post Closure	Molybdenum	1.21E+01	9.45E-01	7.55E-01	1.70E+00	9.45E-01	7.55E+00	8.50E+00	6.46E-09	2.89E-03	1.88E+01	4.25E-01	1.33E-01	5.58E-01	5.19E+01	1.62E+00	3.71E+01
Post Closure	Selenium	7.58E-01	5.00E-01	4.74E-02	5.47E-01	5.00E-01	4.74E-01	9.74E-01	7.40E-10	1.62E-03	5.00E-01	2.61E-01	8.36E-03	2.69E-01	1.23E+01	7.21E-01	8.74E+00
Project-Base	Arsenic	2.56E+00	0.00E+00	1.60E-01	1.60E-01	0.00E+00	1.60E+00	1.60E+00	1.21E-09	2.02E-04	0.00E+00	4.85E-02	2.82E-02	7.67E-02	8.81E-02	6.62E-02	1.72E-01
Project-Base	Barium	1.47E+02	0.00E+00	9.21E+00	9.21E+00	0.00E+00	9.21E+01	9.21E+01	7.00E-08	2.99E-03	0.00E+00	1.44E+00	1.62E+00	3.06E+00	3.58E+00	1.21E+01	2.27E+00
Project-Base	Beryllium	5.38E-01	0.00E+00	3.36E-02	3.36E-02	0.00E+00	3.36E-01	3.36E-01	2.56E-10	3.30E-05	0.00E+00	4.84E-02	5.93E-03	5.44E-02	8.90E-03	4.43E-02	1.36E-02
Project-Base	Chromium	3.64E+01	0.00E+00	2.28E+00	2.28E+00	0.00E+00	2.28E+01	2.28E+01	1.73E-08	1.48E-04	0.00E+00	9.33E-02	4.02E-01	4.95E-01	2.66E+00	1.13E+01	1.90E+00
Project-Base	Cobalt	5.63E+00	0.00E+00	3.52E-01	3.52E-01	0.00E+00	3.52E+00	3.52E+00	2.68E-09	1.47E-03	0.00E+00	2.62E-03	6.21E-02	6.48E-02	2.46E-01	4.30E-02	1.41E-01
Project-Base	Iron	5.42E+04	0.00E+00	3.39E+03	3.39E+03	0.00E+00	3.39E+04	3.39E+04	2.58E-05	1.47E-01	0.00E+00	1.44E+01	5.98E+02	6.13E+02	2.65E+03	1.22E+02	1.89E+03

Table 2-1: Exposure Point Concentrations Used to Predict Wildlife Exposure

		Deposition	Soil	Soil	Soil	Surface Soil	Surface Soil	Surface Soil	Dust	Surface Water	Sediment	Browse	Browse	Browse	A_inverts	T_inverts	Aq_plants
		Deposition	Measured	Deposition	Total	Measured	Deposition	Total	Dust	Surface Water	Sediment	Soil	Deposition	Total	Surface Water	Soil	Surface Water
Case	Chemical	[mg/m2/year]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/kg]	[mg/m3]	[mg/L]	[mg/kg]	[mg/kg-DW]	[mg/kg-DW]	[mg/kg-DW]	[mg/kg-DW]	[mg/kg-DW]	[mg/kg-DW]
Project-Base	Lead	5.63E+00	0.00E+00	3.52E-01	3.52E-01	0.00E+00	3.52E+00	3.52E+00	2.67E-09	0.00E+00	0.00E+00	1.47E-01	6.21E-02	2.10E-01	0.00E+00	3.46E-01	0.00E+00
Project-Base	Manganese	2.12E+03	0.00E+00	1.33E+02	1.33E+02	0.00E+00	1.33E+03	1.33E+03	1.01E-06	8.67E-02	0.00E+00	1.05E+01	2.34E+01	3.39E+01	1.56E+03	1.25E+01	1.11E+03
Project-Base	Mercury	4.14E-03	0.00E+00	2.59E-04	2.59E-04	0.00E+00	2.59E-03	2.59E-03	1.97E-12	0.00E+00	0.00E+00	4.13E-03	4.56E-05	4.18E-03	0.00E+00	1.90E-01	0.00E+00
Project-Base	Molybdenum	1.21E+01	0.00E+00	7.55E-01	7.55E-01	0.00E+00	7.55E+00	7.55E+00	5.74E-09	2.05E-03	0.00E+00	1.89E-01	1.33E-01	3.22E-01	3.69E+01	7.20E-01	2.64E+01
Project-Base	Selenium	7.58E-01	0.00E+00	4.74E-02	4.74E-02	0.00E+00	4.74E-01	4.74E-01	3.60E-10	4.98E-04	0.00E+00	1.75E-02	8.36E-03	2.59E-02	3.77E+00	6.24E-02	2.68E+00
Closure-Base	Arsenic	2.56E+00	0.00E+00	1.60E-01	1.60E-01	0.00E+00	1.60E+00	1.60E+00	1.21E-09	1.52E-04	0.00E+00	4.85E-02	2.82E-02	7.67E-02	6.64E-02	6.62E-02	1.30E-01
Closure-Base	Barium	1.47E+02	0.00E+00	9.21E+00	9.21E+00	0.00E+00	9.21E+01	9.21E+01	7.00E-08	0.00E+00	0.00E+00	1.44E+00	1.62E+00	3.06E+00	0.00E+00	1.21E+01	0.00E+00
Closure-Base	Beryllium	5.38E-01	0.00E+00	3.36E-02	3.36E-02	0.00E+00	3.36E-01	3.36E-01	2.56E-10	2.67E-05	0.00E+00	4.84E-02	5.93E-03	5.44E-02	7.18E-03	4.43E-02	1.10E-02
Closure-Base	Chromium	3.64E+01	0.00E+00	2.28E+00	2.28E+00	0.00E+00	2.28E+01	2.28E+01	1.73E-08	1.20E-04	0.00E+00	9.33E-02	4.02E-01	4.95E-01	2.15E+00	1.13E+01	1.54E+00
Closure-Base	Cobalt	5.63E+00	0.00E+00	3.52E-01	3.52E-01	0.00E+00	3.52E+00	3.52E+00	2.68E-09	9.01E-04	0.00E+00	2.62E-03	6.21E-02	6.48E-02	1.51E-01	4.30E-02	8.67E-02
Closure-Base	Iron	5.42E+04	0.00E+00	3.39E+03	3.39E+03	0.00E+00	3.39E+04	3.39E+04	2.58E-05	3.68E-02	0.00E+00	1.44E+01	5.98E+02	6.13E+02	6.61E+02	1.22E+02	4.72E+02
Closure-Base	Lead	5.63E+00	0.00E+00	3.52E-01	3.52E-01	0.00E+00	3.52E+00	3.52E+00	2.67E-09	0.00E+00	0.00E+00	1.47E-01	6.21E-02	2.10E-01	0.00E+00	3.46E-01	0.00E+00
Closure-Base	Manganese	2.12E+03	0.00E+00	1.33E+02	1.33E+02	0.00E+00	1.33E+03	1.33E+03	1.01E-06	0.00E+00	0.00E+00	1.05E+01	2.34E+01	3.39E+01	0.00E+00	1.25E+01	0.00E+00
Closure-Base	Mercury	4.14E-03	0.00E+00	2.59E-04	2.59E-04	0.00E+00	2.59E-03	2.59E-03	1.97E-12	0.00E+00	0.00E+00	4.13E-03	4.56E-05	4.18E-03	0.00E+00	1.90E-01	0.00E+00
Closure-Base	Molybdenum	1.21E+01	0.00E+00	7.55E-01	7.55E-01	0.00E+00	7.55E+00	7.55E+00	5.74E-09	1.05E-03	0.00E+00	1.89E-01	1.33E-01	3.22E-01	1.89E+01	7.20E-01	1.35E+01
Closure-Base	Selenium	7.58E-01	0.00E+00	4.74E-02	4.74E-02	0.00E+00	4.74E-01	4.74E-01	3.60E-10	3.71E-04	0.00E+00	1.75E-02	8.36E-03	2.59E-02	2.80E+00	6.24E-02	2.00E+00
Post Closure-B	Arsenic	2.56E+00	0.00E+00	1.60E-01	1.60E-01	0.00E+00	1.60E+00	1.60E+00	1.21E-09	3.37E-04	0.00E+00	4.85E-02	2.82E-02	7.67E-02	1.47E-01	6.62E-02	2.88E-01
Post Closure-B	Barium	1.47E+02	0.00E+00	9.21E+00	9.21E+00	0.00E+00	9.21E+01	9.21E+01	7.00E-08	2.70E-03	0.00E+00	1.44E+00	1.62E+00	3.06E+00	3.23E+00	1.21E+01	2.05E+00
Post Closure-B	Beryllium	5.38E-01	0.00E+00	3.36E-02	3.36E-02	0.00E+00	3.36E-01	3.36E-01	2.56E-10	2.01E-05	0.00E+00	4.84E-02	5.93E-03	5.44E-02	5.41E-03	4.43E-02	8.25E-03
Post Closure-B	Chromium	3.64E+01	0.00E+00	2.28E+00	2.28E+00	0.00E+00	2.28E+01	2.28E+01	1.73E-08	1.61E-05	0.00E+00	9.33E-02	4.02E-01	4.95E-01	2.89E-01	1.13E+01	2.07E-01
Post Closure-B	Cobalt	5.63E+00	0.00E+00	3.52E-01	3.52E-01	0.00E+00	3.52E+00	3.52E+00	2.68E-09	4.39E-04	0.00E+00	2.62E-03	6.21E-02	6.48E-02	7.37E-02	4.30E-02	4.23E-02
Post Closure-B	Iron	5.42E+04	0.00E+00	3.39E+03	3.39E+03	0.00E+00	3.39E+04	3.39E+04	2.58E-05	7.71E-02	0.00E+00	1.44E+01	5.98E+02	6.13E+02	1.38E+03	1.22E+02	9.90E+02
Post Closure-B	Lead	5.63E+00	0.00E+00	3.52E-01	3.52E-01	0.00E+00	3.52E+00	3.52E+00	2.67E-09	0.00E+00	0.00E+00	1.47E-01	6.21E-02	2.10E-01	0.00E+00	3.46E-01	0.00E+00
Post Closure-B	Manganese	2.12E+03	0.00E+00	1.33E+02	1.33E+02	0.00E+00	1.33E+03	1.33E+03	1.01E-06	5.38E-02	0.00E+00	1.05E+01	2.34E+01	3.39E+01	9.66E+02	1.25E+01	6.91E+02
Post Closure-B	Mercury	4.14E-03	0.00E+00	2.59E-04	2.59E-04	0.00E+00	2.59E-03	2.59E-03	1.97E-12	0.00E+00	0.00E+00	4.13E-03	4.56E-05	4.18E-03	0.00E+00	1.90E-01	0.00E+00
Post Closure-B	Molybdenum	1.21E+01	0.00E+00	7.55E-01	7.55E-01	0.00E+00	7.55E+00	7.55E+00	5.74E-09	2.37E-03	0.00E+00	1.89E-01	1.33E-01	3.22E-01	4.26E+01	7.20E-01	3.04E+01
Post Closure-B	Selenium	7.58E-01	0.00E+00	4.74E-02	4.74E-02	0.00E+00	4.74E-01	4.74E-01	3.60E-10	1.27E-03	0.00E+00	1.75E-02	8.36E-03	2.59E-02	9.58E+00	6.24E-02	6.82E+00

Table 2-2: Calculated Wildlife Exposure Estimates

Case	Chemical	Receptor	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Browse Soil [mg/day]	A_inverts Surface Water [mg/day]	T_inverts Soil [mg/day]	Aq_plants Surface Water [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total AIR [mg/day]	Total Diet [mg/day]	Total [mg/day]	Game Meat Concentration Projected [mg/kg-WW]
Base	Arsenic	Grouse	1.42E-03	4.23E-10	7.84E-06	5.91E-03	0.00E+00	2.06E-03	0.00E+00	1.42E-03	7.84E-06	4.23E-10	7.97E-03	9.41E-03	4.00E-03
Base	Barium	Grouse	8.08E-02	2.40E-08	6.61E-04	5.36E-01	0.00E+00	7.98E-01	0.00E+00	8.08E-02	6.61E-04	2.40E-08	1.33E+00	1.42E+00	2.12E-04
Base	Beryllium	Grouse	1.92E-04	5.70E-11	3.57E-06	6.63E-03	0.00E+00	1.90E-03	0.00E+00	1.92E-04	3.57E-06	5.70E-11	8.53E-03	8.73E-03	8.73E-06
Base	Chromium	Grouse	4.67E-02	1.39E-08	4.40E-05	8.14E-02	0.00E+00	4.47E-02	0.00E+00	4.67E-02	4.40E-05	1.39E-08	1.26E-01	1.73E-01	1.10E-01
Base	Cobalt	Grouse	7.95E-03	2.36E-09	5.37E-06	2.52E-03	0.00E+00	7.27E-03	0.00E+00	7.95E-03	5.37E-06	2.36E-09	9.79E-03	1.77E-02	3.18E-03
Base	Iron	Grouse	5.33E+01	1.58E-05	4.48E-03	9.63E+00	0.00E+00	1.44E+01	0.00E+00	5.33E+01	4.48E-03	1.58E-05	2.40E+01	7.74E+01	4.37E+01
Base	Lead	Grouse	5.13E-03	1.52E-09	2.88E-05	2.35E-02	0.00E+00	2.09E-02	0.00E+00	5.13E-03	2.88E-05	1.52E-09	4.44E-02	4.95E-02	1.49E-05
Base	Manganese	Grouse	9.94E-01	2.95E-07	1.95E-02	3.34E+00	0.00E+00	3.24E-01	0.00E+00	9.94E-01	1.95E-02	2.95E-07	3.67E+00	4.68E+00	1.50E+00
Base	Mercury	Grouse	3.31E-05	9.83E-12	1.36E-06	2.04E-03	0.00E+00	1.76E-03	0.00E+00	3.31E-05	1.36E-06	9.83E-12	3.80E-03	3.83E-03	2.00E-03
Base	Molybdenum	Grouse	6.26E-04	1.86E-10	2.83E-05	6.65E-03	0.00E+00	4.47E-03	0.00E+00	6.26E-04	2.83E-05	1.86E-10	1.11E-02	1.18E-02	2.00E-02
Base	Selenium	Grouse	3.31E-04	9.83E-11	1.38E-05	6.65E-03	0.00E+00	3.27E-03	0.00E+00	3.31E-04	1.38E-05	9.83E-11	9.92E-03	1.03E-02	2.50E-01
Project	Arsenic	Grouse	2.48E-03	7.37E-10	1.76E-05	6.95E-03	0.00E+00	2.17E-03	0.00E+00	2.48E-03	1.76E-05	7.37E-10	9.12E-03	1.16E-02	4.94E-03
Project	Barium	Grouse	1.42E-01	4.21E-08	5.17E-04	6.22E-01	0.00E+00	8.59E-01	0.00E+00	1.42E-01	5.17E-04	4.21E-08	1.48E+00	1.62E+00	2.43E-04
Project	Beryllium	Grouse	4.15E-04	1.23E-10	5.33E-06	7.36E-03	0.00E+00	2.12E-03	0.00E+00	4.15E-04	5.33E-06	1.23E-10	9.48E-03	9.90E-03	9.90E-06
Project	Chromium	Grouse	6.18E-02	1.83E-08	5.26E-05	9.53E-02	0.00E+00	4.46E-02	0.00E+00	6.18E-02	5.26E-05	1.83E-08	1.40E-01	2.02E-01	1.28E-01
Project	Cobalt	Grouse	1.03E-02	3.05E-09	6.28E-05	4.34E-03	0.00E+00	7.49E-03	0.00E+00	1.03E-02	6.28E-05	3.05E-09	1.18E-02	2.22E-02	3.97E-03
Project	Iron	Grouse	7.58E+01	2.25E-05	7.22E-03	2.69E+01	0.00E+00	1.50E+01	0.00E+00	7.58E+01	7.22E-03	2.25E-05	4.19E+01	1.18E+02	6.65E+01
Project	Lead	Grouse	7.46E-03	2.22E-09	7.11E-06	2.59E-02	0.00E+00	2.16E-02	0.00E+00	7.46E-03	7.11E-06	2.22E-09	4.75E-02	5.50E-02	1.65E-05
Project	Manganese	Grouse	1.87E+00	5.56E-07	3.77E-03	4.30E+00	0.00E+00	3.44E-01	0.00E+00	1.87E+00	3.77E-03	5.56E-07	4.64E+00	6.52E+00	2.09E+00
Project	Mercury	Grouse	3.48E-05	1.03E-11	1.35E-06	2.04E-03	0.00E+00	1.76E-03	0.00E+00	3.48E-05	1.35E-06	1.03E-11	3.81E-03	3.84E-03	2.01E-03
Project	Molybdenum	Grouse	5.63E-03	1.67E-09	9.43E-05	1.57E-02	0.00E+00	8.05E-03	0.00E+00	5.63E-03	9.43E-05	1.67E-09	2.38E-02	2.95E-02	5.01E-02
Project	Selenium	Grouse	6.45E-04	1.92E-10	3.75E-05	7.58E-03	0.00E+00	3.58E-03	0.00E+00	6.45E-04	3.75E-05	1.92E-10	1.12E-02	1.18E-02	2.89E-01
Closure	Arsenic	Grouse	2.48E-03	7.37E-10	1.37E-05	6.95E-03	0.00E+00	2.17E-03	0.00E+00	2.48E-03	1.37E-05	7.37E-10	9.12E-03	1.16E-02	4.94E-03
Closure	Barium	Grouse	1.42E-01	4.21E-08	5.14E-04	6.22E-01	0.00E+00	8.59E-01	0.00E+00	1.42E-01	5.14E-04	4.21E-08	1.48E+00	1.62E+00	2.43E-04
Closure	Beryllium	Grouse	4.15E-04	1.23E-10	4.60E-06	7.36E-03	0.00E+00	2.12E-03	0.00E+00	4.15E-04	4.60E-06	1.23E-10	9.48E-03	9.90E-03	9.90E-06
Closure	Chromium	Grouse	6.18E-02	1.83E-08	4.87E-05	9.53E-02	0.00E+00	4.46E-02	0.00E+00	6.18E-02	4.87E-05	1.83E-08	1.40E-01	2.02E-01	1.28E-01
Closure	Cobalt	Grouse	1.03E-02	3.05E-09	4.02E-05	4.34E-03	0.00E+00	7.49E-03	0.00E+00	1.03E-02	4.02E-05	3.05E-09	1.18E-02	2.21E-02	3.97E-03
Closure	Iron	Grouse	7.58E+01	2.25E-05	5.90E-03	2.69E+01	0.00E+00	1.50E+01	0.00E+00	7.58E+01	5.90E-03	2.25E-05	4.19E+01	1.18E+02	6.65E+01
Closure	Lead	Grouse	7.46E-03	2.22E-09	6.69E-06	2.59E-02	0.00E+00	2.16E-02	0.00E+00	7.46E-03	6.69E-06	2.22E-09	4.75E-02	5.50E-02	1.65E-05
Closure	Manganese	Grouse	1.87E+00	5.56E-07	2.86E-03	4.30E+00	0.00E+00	3.44E-01	0.00E+00	1.87E+00	2.86E-03	5.56E-07	4.64E+00	6.52E+00	2.09E+00
Closure	Mercury	Grouse	3.48E-05	1.03E-11	1.35E-06	2.04E-03	0.00E+00	1.76E-03	0.00E+00	3.48E-05	1.35E-06	1.03E-11	3.81E-03	3.84E-03	2.01E-03
Closure	Molybdenum	Grouse	5.63E-03	1.67E-09	6.89E-05	1.57E-02	0.00E+00	8.05E-03	0.00E+00	5.63E-03	6.89E-05	1.67E-09	2.38E-02	2.95E-02	5.00E-02
Closure	Selenium	Grouse	6.45E-04	1.92E-10	2.81E-05	7.58E-03	0.00E+00	3.58E-03	0.00E+00	6.45E-04	2.81E-05	1.92E-10	1.12E-02	1.18E-02	2.88E-01
Post Closure	Arsenic	Grouse	2.48E-03	7.37E-10	2.09E-05	6.95E-03	0.00E+00	2.17E-03	0.00E+00	2.48E-03	2.09E-05	7.37E-10	9.12E-03	1.16E-02	4.94E-03
Post Closure	Barium	Grouse	1.42E-01	4.21E-08	5.06E-04	6.22E-01	0.00E+00	8.59E-01	0.00E+00	1.42E-01	5.06E-04	4.21E-08	1.48E+00	1.62E+00	2.43E-04
Post Closure	Beryllium	Grouse	4.15E-04	1.23E-10	4.35E-06	7.36E-03	0.00E+00	2.12E-03	0.00E+00	4.15E-04	4.35E-06	1.23E-10	9.48E-03	9.90E-03	9.90E-06
Post Closure	Chromium	Grouse	6.18E-02	1.83E-08	4.47E-05	9.53E-02	0.00E+00	4.46E-02	0.00E+00	6.18E-02	4.47E-05	1.83E-08	1.40E-01	2.02E-01	1.28E-01
Post Closure	Cobalt	Grouse	1.03E-02	3.05E-09	2.24E-05	4.34E-03	0.00E+00	7.49E-03	0.00E+00	1.03E-02	2.24E-05	3.05E-09	1.18E-02	2.21E-02	3.97E-03
Post Closure	Iron	Grouse	7.58E+01	2.25E-05	6.92E-03	2.69E+01	0.00E+00	1.50E+01	0.00E+00	7.58E+01	6.92E-03	2.25E-05	4.19E+01	1.18E+02	6.65E+01
Post Closure	Lead	Grouse	7.46E-03	2.22E-09	6.04E-06	2.59E-02	0.00E+00	2.16E-02	0.00E+00	7.46E-03	6.04E-06	2.22E-09	4.75E-02	5.50E-02	1.65E-05
Post Closure	Manganese	Grouse	1.87E+00	5.56E-07	2.65E-03	4.30E+00	0.00E+00	3.44E-01	0.00E+00	1.87E+00	2.65E-03	5.56E-07	4.64E+00	6.52E+00	2.09E+00
Post Closure	Mercury	Grouse	3.48E-05	1.03E-11	1.34E-06	2.04E-03	0.00E+00	1.76E-03	0.00E+00	3.48E-05	1.34E-06	1.03E-11	3.81E-03	3.84E-03	2.01E-03
Post Closure	Molybdenum	Grouse	5.63E-03	1.67E-09	1.12E-04	1.57E-02	0.00E+00	8.05E-03	0.00E+00	5.63E-03	1.12E-04	1.67E-09	2.38E-02	2.95E-02	5.01E-02
Post Closure	Selenium	Grouse	6.45E-04	1.92E-10	6.28E-05	7.58E-03	0.00E+00	3.58E-03	0.00E+00	6.45E-04	6.28E-05	1.92E-10	1.12E-02	1.19E-02	2.89E-01
Project-Base	Arsenic	Grouse	1.06E-03	3.14E-10	7.79E-06	2.16E-03	0.00E+00	3.29E-04	0.00E+00	1.06E-03	7.79E-06	3.14E-10	2.49E-03	3.55E-03	1.51E-03
Project-Base	Barium	Grouse	6.10E-02	1.81E-08	1.16E-04	8.62E-02	0.00E+00	6.03E-02	0.00E+00	6.10E-02	1.16E-04	1.81E-08	1.46E-01	2.08E-01	3.11E-05
Project-Base	Beryllium	Grouse	2.23E-04	6.61E-11	1.28E-06	1.53E-03	0.00E+00	2.20E-04	0.00E+00	2.23E-04	1.28E-06	6.61E-11	1.75E-03	1.97E-03	1.97E-06
Project-Base	Chromium	Grouse	1.51E-02	4.48E-09	5.72E-06	1.39E-02	0.00E+00	5.62E-02	0.00E+00	1.51E-02	5.72E-06	4.48E-09	7.01E-02	8.52E-02	5.43E-02
Project-Base	Cobalt	Grouse	2.33E-03	6.93E-10	5.68E-05	1.82E-03	0.00E+00	2.13E-04	0.00E+00	2.33E-03	5.68E-05	6.93E-10	2.04E-03	4.43E-03	7.93E-04
Project-Base	Iron	Grouse	2.25E+01	6.67E-06	5.70E-03	1.72E+01	0.00E+00	6.07E-01	0.00E+00	2.25E+01	5.70E-03	6.67E-06	1.79E+01	4.03E+01	2.28E+01
Project-Base	Lead	Grouse	2.33E-03	6.92E-10	0.00E+00	5.90E-03	0.00E+00	1.72E-03	0.00E+00	2.33E-03	0.00E+00	6.92E-10	7.62E-03	9.95E-03	2.98E-06
Project-Base	Manganese	Grouse	8.78E-01	2.61E-07	3.35E-03	9.54E-01	0.00E+00	6.20E-02	0.00E+00	8.78E-01	3.35E-03	2.61E-07	1.02E+00	1.90E+00	6.08E-01
Project-Base	Mercury	Grouse	1.71E-06	5.09E-13	0.00E+00	1.18E-04	0.00E+00	9.46E-04	0.00E+00	1.71E-06	0.00E+00	5.09E-13	1.06E-03	1.07E-03	5.56E-04
Project-Base	Molybdenum	Grouse	5.00E-03	1.49E-09	7.93E-05	9.07E-03	0.00E+00	3.58E-03	0.00E+00	5.00E-03	7.93E-05	1.49E-09	1.26E-02	1.77E-02	3.01E-02
Project-Base	Selenium	Grouse	3.14E-04	9.32E-11	1.93E-05	7.28E-04	0.00E+00	3.10E-04	0.00E+00	3.14E-04	1.93E-05	9.32E-11	1.04E-03	1.37E-03	3.34E-02
Closure-Base	Arsenic	Grouse	1.06E-03	3.14E-10	5.87E-06	2.16E-03	0.00E+00	3.29E-04	0.00E+00	1.06E-03	5.87E-06	3.14E-10	2.49E-03	3.55E-03	1.51E-03
Closure-Base	Barium	Grouse	6.10E-02	1.81E-08	0.00E+00	8.62E-02	0.00E+00	6.03E-02	0.00E+00	6.10E-02	0.00E+00	1.81E-08	1.46E-01	2.07E-01	3.11E-05

Table 2-2: Calculated Wildlife Exposure Estimates

Case	Chemical	Receptor	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Browse Soil [mg/day]	A_inverts Surface Water [mg/day]	T_inverts Soil [mg/day]	Aq_plants Surface Water [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total AIR [mg/day]	Total Diet [mg/day]	Total [mg/day]	Game Meat Concentration Projected [mg/kg-WW]
Closure-Base	Beryllium	Grouse	2.23E-04	6.61E-11	1.03E-06	1.53E-03	0.00E+00	2.20E-04	0.00E+00	2.23E-04	1.03E-06	6.61E-11	1.75E-03	1.97E-03	1.97E-06
Closure-Base	Chromium	Grouse	1.51E-02	4.48E-09	4.63E-06	1.39E-02	0.00E+00	5.62E-02	0.00E+00	1.51E-02	4.63E-06	4.48E-09	7.01E-02	8.52E-02	5.43E-02
Closure-Base	Cobalt	Grouse	2.33E-03	6.93E-10	3.48E-05	1.82E-03	0.00E+00	2.13E-04	0.00E+00	2.33E-03	3.48E-05	6.93E-10	2.04E-03	4.40E-03	7.89E-04
Closure-Base	Iron	Grouse	2.25E+01	6.67E-06	1.42E-03	1.72E+01	0.00E+00	6.07E-01	0.00E+00	2.25E+01	1.42E-03	6.67E-06	1.79E+01	4.03E+01	2.28E+01
Closure-Base	Lead	Grouse	2.33E-03	6.92E-10	0.00E+00	5.90E-03	0.00E+00	1.72E-03	0.00E+00	2.33E-03	0.00E+00	6.92E-10	7.62E-03	9.95E-03	2.98E-06
Closure-Base	Manganese	Grouse	8.78E-01	2.61E-07	0.00E+00	9.54E-01	0.00E+00	6.20E-02	0.00E+00	8.78E-01	0.00E+00	2.61E-07	1.02E+00	1.89E+00	6.07E-01
Closure-Base	Mercury	Grouse	1.71E-06	5.09E-13	0.00E+00	1.18E-04	0.00E+00	9.46E-04	0.00E+00	1.71E-06	0.00E+00	5.09E-13	1.06E-03	1.07E-03	5.56E-04
Closure-Base	Molybdenum	Grouse	5.00E-03	1.49E-09	4.05E-05	9.07E-03	0.00E+00	3.58E-03	0.00E+00	5.00E-03	4.05E-05	1.49E-09	1.26E-02	1.77E-02	3.00E-02
Closure-Base	Selenium	Grouse	3.14E-04	9.32E-11	1.43E-05	7.28E-04	0.00E+00	3.10E-04	0.00E+00	3.14E-04	1.43E-05	9.32E-11	1.04E-03	1.37E-03	3.33E-02
Post Closure-Base	Arsenic	Grouse	1.06E-03	3.14E-10	1.30E-05	2.16E-03	0.00E+00	3.29E-04	0.00E+00	1.06E-03	1.30E-05	3.14E-10	2.49E-03	3.56E-03	1.51E-03
Post Closure-Base	Barium	Grouse	6.10E-02	1.81E-08	1.04E-04	8.62E-02	0.00E+00	6.03E-02	0.00E+00	6.10E-02	1.04E-04	1.81E-08	1.46E-01	2.08E-01	3.11E-05
Post Closure-Base	Beryllium	Grouse	2.23E-04	6.61E-11	7.76E-07	1.53E-03	0.00E+00	2.20E-04	0.00E+00	2.23E-04	7.76E-07	6.61E-11	1.75E-03	1.97E-03	1.97E-06
Post Closure-Base	Chromium	Grouse	1.51E-02	4.48E-09	6.22E-07	1.39E-02	0.00E+00	5.62E-02	0.00E+00	1.51E-02	6.22E-07	4.48E-09	7.01E-02	8.52E-02	5.43E-02
Post Closure-Base	Cobalt	Grouse	2.33E-03	6.93E-10	1.70E-05	1.82E-03	0.00E+00	2.13E-04	0.00E+00	2.33E-03	1.70E-05	6.93E-10	2.04E-03	4.39E-03	7.86E-04
Post Closure-Base	Iron	Grouse	2.25E+01	6.67E-06	2.98E-03	1.72E+01	0.00E+00	6.07E-01	0.00E+00	2.25E+01	2.98E-03	6.67E-06	1.79E+01	4.03E+01	2.28E+01
Post Closure-Base	Lead	Grouse	2.33E-03	6.92E-10	0.00E+00	5.90E-03	0.00E+00	1.72E-03	0.00E+00	2.33E-03	0.00E+00	6.92E-10	7.62E-03	9.95E-03	2.98E-06
Post Closure-Base	Manganese	Grouse	8.78E-01	2.61E-07	2.08E-03	9.54E-01	0.00E+00	6.20E-02	0.00E+00	8.78E-01	2.08E-03	2.61E-07	1.02E+00	1.90E+00	6.07E-01
Post Closure-Base	Mercury	Grouse	1.71E-06	5.09E-13	0.00E+00	1.18E-04	0.00E+00	9.46E-04	0.00E+00	1.71E-06	0.00E+00	5.09E-13	1.06E-03	1.07E-03	5.56E-04
Post Closure-Base	Molybdenum	Grouse	5.00E-03	1.49E-09	9.15E-05	9.07E-03	0.00E+00	3.58E-03	0.00E+00	5.00E-03	9.15E-05	1.49E-09	1.26E-02	1.77E-02	3.01E-02
Post Closure-Base	Selenium	Grouse	3.14E-04	9.32E-11	4.90E-05	7.28E-04	0.00E+00	3.10E-04	0.00E+00	3.14E-04	4.90E-05	9.32E-11	1.04E-03	1.40E-03	3.41E-02
Base	Arsenic	Hare	1.06E-02	1.10E-09	2.64E-05	1.64E-02	0.00E+00	0.00E+00	0.00E+00	1.06E-02	2.64E-05	1.10E-09	1.64E-02	2.70E-02	4.00E-03
Base	Barium	Hare	6.00E-01	6.24E-08	2.22E-03	1.48E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-01	2.22E-03	6.24E-08	1.48E+00	2.09E+00	3.13E-04
Base	Beryllium	Hare	1.43E-03	1.48E-10	1.20E-05	1.84E-02	0.00E+00	0.00E+00	0.00E+00	1.43E-03	1.20E-05	1.48E-10	1.84E-02	1.98E-02	1.98E-05
Base	Chromium	Hare	3.46E-01	3.61E-08	1.48E-04	2.25E-01	0.00E+00	0.00E+00	0.00E+00	3.46E-01	1.48E-04	3.61E-08	2.25E-01	5.72E-01	1.30E-01
Base	Cobalt	Hare	5.90E-02	6.14E-09	1.81E-05	6.97E-03	0.00E+00	0.00E+00	0.00E+00	5.90E-02	1.81E-05	6.14E-09	6.97E-03	6.60E-02	1.28E-02
Base	Iron	Hare	3.96E+02	4.12E-05	1.51E-02	2.67E+01	0.00E+00	0.00E+00	0.00E+00	3.96E+02	1.51E-02	4.12E-05	2.67E+01	4.22E+02	4.17E+01
Base	Lead	Hare	3.81E-02	3.97E-09	9.69E-05	6.52E-02	0.00E+00	0.00E+00	0.00E+00	3.81E-02	9.69E-05	3.97E-09	6.52E-02	1.03E-01	2.00E-02
Base	Manganese	Hare	7.37E+00	7.68E-07	6.57E-02	9.27E+00	0.00E+00	0.00E+00	0.00E+00	7.37E+00	6.57E-02	7.68E-07	9.27E+00	1.67E+01	2.84E+00
Base	Mercury	Hare	2.46E-04	2.56E-11	4.59E-06	5.65E-03	0.00E+00	0.00E+00	0.00E+00	2.46E-04	4.59E-06	2.56E-11	5.65E-03	5.90E-03	1.00E-02
Base	Molybdenum	Hare	4.64E-03	4.84E-10	9.53E-05	1.84E-02	0.00E+00	0.00E+00	0.00E+00	4.64E-03	9.53E-05	4.84E-10	1.84E-02	2.32E-02	2.00E-02
Base	Selenium	Hare	2.46E-03	2.56E-10	4.64E-05	1.84E-02	0.00E+00	0.00E+00	0.00E+00	2.46E-03	4.64E-05	2.56E-10	1.84E-02	2.09E-02	2.30E-01
Project	Arsenic	Hare	1.84E-02	1.92E-09	5.92E-05	1.93E-02	0.00E+00	0.00E+00	0.00E+00	1.84E-02	5.92E-05	1.92E-09	1.93E-02	3.77E-02	5.60E-03
Project	Barium	Hare	1.05E+00	1.10E-07	1.74E-03	1.72E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+00	1.74E-03	1.10E-07	1.72E+00	2.78E+00	4.17E-04
Project	Beryllium	Hare	3.08E-03	3.20E-10	1.79E-05	2.04E-02	0.00E+00	0.00E+00	0.00E+00	3.08E-03	1.79E-05	3.20E-10	2.04E-02	2.35E-02	2.35E-05
Project	Chromium	Hare	4.58E-01	4.77E-08	1.77E-04	2.64E-01	0.00E+00	0.00E+00	0.00E+00	4.58E-01	1.77E-04	4.77E-08	2.64E-01	7.23E-01	1.64E-01
Project	Cobalt	Hare	7.63E-02	7.94E-09	2.11E-04	1.20E-02	0.00E+00	0.00E+00	0.00E+00	7.63E-02	2.11E-04	7.94E-09	1.20E-02	8.85E-02	1.71E-02
Project	Iron	Hare	5.62E+02	5.85E-05	2.43E-02	7.45E+01	0.00E+00	0.00E+00	0.00E+00	5.62E+02	2.43E-02	5.85E-05	7.45E+01	6.37E+02	6.29E+01
Project	Lead	Hare	5.54E-02	5.77E-09	2.39E-05	7.17E-02	0.00E+00	0.00E+00	0.00E+00	5.54E-02	2.39E-05	5.77E-09	7.17E-02	1.27E-01	2.46E-02
Project	Manganese	Hare	1.39E+01	1.45E-06	1.27E-02	1.19E+01	0.00E+00	0.00E+00	0.00E+00	1.39E+01	1.27E-02	1.45E-06	1.19E+01	2.58E+01	4.39E+00
Project	Mercury	Hare	2.58E-04	2.69E-11	4.55E-06	5.67E-03	0.00E+00	0.00E+00	0.00E+00	2.58E-04	4.55E-06	2.69E-11	5.67E-03	5.93E-03	1.01E-02
Project	Molybdenum	Hare	4.18E-02	4.35E-09	3.17E-04	4.35E-02	0.00E+00	0.00E+00	0.00E+00	4.18E-02	3.17E-04	4.35E-09	4.35E-02	8.56E-02	7.39E-02
Project	Selenium	Hare	4.79E-03	4.98E-10	1.26E-04	2.10E-02	0.00E+00	0.00E+00	0.00E+00	4.79E-03	1.26E-04	4.98E-10	2.10E-02	2.59E-02	2.85E-01
Closure	Arsenic	Hare	1.84E-02	1.92E-09	4.61E-05	1.93E-02	0.00E+00	0.00E+00	0.00E+00	1.84E-02	4.61E-05	1.92E-09	1.93E-02	3.77E-02	5.59E-03
Closure	Barium	Hare	1.05E+00	1.10E-07	1.73E-03	1.72E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+00	1.73E-03	1.10E-07	1.72E+00	2.78E+00	4.17E-04
Closure	Beryllium	Hare	3.08E-03	3.20E-10	1.55E-05	2.04E-02	0.00E+00	0.00E+00	0.00E+00	3.08E-03	1.55E-05	3.20E-10	2.04E-02	2.35E-02	2.35E-05
Closure	Chromium	Hare	4.58E-01	4.77E-08	1.64E-04	2.64E-01	0.00E+00	0.00E+00	0.00E+00	4.58E-01	1.64E-04	4.77E-08	2.64E-01	7.23E-01	1.64E-01
Closure	Cobalt	Hare	7.63E-02	7.94E-09	1.35E-04	1.20E-02	0.00E+00	0.00E+00	0.00E+00	7.63E-02	1.35E-04	7.94E-09	1.20E-02	8.84E-02	1.71E-02
Closure	Iron	Hare	5.62E+02	5.85E-05	1.99E-02	7.45E+01	0.00E+00	0.00E+00	0.00E+00	5.62E+02	1.99E-02	5.85E-05	7.45E+01	6.37E+02	6.29E+01
Closure	Lead	Hare	5.54E-02	5.77E-09	2.25E-05	7.17E-02	0.00E+00	0.00E+00	0.00E+00	5.54E-02	2.25E-05	5.77E-09	7.17E-02	1.27E-01	2.46E-02
Closure	Manganese	Hare	1.39E+01	1.45E-06	9.63E-03	1.19E+01	0.00E+00	0.00E+00	0.00E+00	1.39E+01	9.63E-03	1.45E-06	1.19E+01	2.58E+01	4.39E+00
Closure	Mercury	Hare	2.58E-04	2.69E-11	4.56E-06	5.67E-03	0.00E+00	0.00E+00	0.00E+00	2.58E-04	4.56E-06	2.69E-11	5.67E-03	5.93E-03	1.01E-02
Closure	Molybdenum	Hare	4.18E-02	4.35E-09	2.32E-04	4.35E-02	0.00E+00	0.00E+00	0.00E+00	4.18E-02	2.32E-04	4.35E-09	4.35E-02	8.55E-02	7.38E-02
Closure	Selenium	Hare	4.79E-03	4.98E-10	9.47E-05	2.10E-02	0.00E+00	0.00E+00	0.00E+00	4.79E-03	9.47E-05	4.98E-10	2.10E-02	2.59E-02	2.85E-01
Post Closure	Arsenic	Hare	1.84E-02	1.92E-09	7.02E-05	1.93E-02	0.00E+00	0.00E+00	0.00E+00	1.84E-02	7.02E-05	1.92E-09	1.93E-02	3.78E-02	5.60E-03
Post Closure	Barium	Hare	1.05E+00	1.10E-07	1.70E-03	1.72E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+00	1.70E-03	1.10E-07	1.72E+00	2.78E+00	4.17E-04
Post Closure	Beryllium	Hare	3.08E-03	3.20E-10	1.46E-05	2.04E-02	0.00E+00	0.00E+00	0.00E+00	3.08E-03	1.46E-05	3.20E-10	2.04E-02	2.35E-02	2.35E-05
Post Closure	Chromium	Hare	4.58E-01	4.77E-08	1.50E-04	2.64E-01	0.00E+00	0.00E+00	0.00E+00	4.58E-01	1.50E-04	4.77E-08	2.64E-01	7.22E-01	1.64E-01

Table 2-2: Calculated Wildlife Exposure Estimates

Case	Chemical	Receptor	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Browse Soil [mg/day]	A_inverts Surface Water [mg/day]	T_inverts Soil [mg/day]	Aq_plants Surface Water [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total AIR [mg/day]	Total Diet [mg/day]	Total [mg/day]	Game Meat Concentration Projected [mg/kg-WW]
Post Closure	Cobalt	Hare	7.63E-02	7.94E-09	7.52E-05	1.20E-02	0.00E+00	0.00E+00	0.00E+00	7.63E-02	7.52E-05	7.94E-09	1.20E-02	8.84E-02	1.71E-02
Post Closure	Iron	Hare	5.62E+02	5.85E-05	2.33E-02	7.45E+01	0.00E+00	0.00E+00	0.00E+00	5.62E+02	2.33E-02	5.85E-05	7.45E+01	6.37E+02	6.29E+01
Post Closure	Lead	Hare	5.54E-02	5.77E-09	2.03E-05	7.17E-02	0.00E+00	0.00E+00	0.00E+00	5.54E-02	2.03E-05	5.77E-09	7.17E-02	1.27E-01	2.46E-02
Post Closure	Manganese	Hare	1.39E+01	1.45E-06	8.91E-03	1.19E+01	0.00E+00	0.00E+00	0.00E+00	1.39E+01	8.91E-03	1.45E-06	1.19E+01	2.58E+01	4.39E+00
Post Closure	Mercury	Hare	2.58E-04	2.69E-11	4.50E-06	5.67E-03	0.00E+00	0.00E+00	0.00E+00	2.58E-04	4.50E-06	2.69E-11	5.67E-03	5.93E-03	1.01E-02
Post Closure	Molybdenum	Hare	4.18E-02	4.35E-09	3.76E-04	4.35E-02	0.00E+00	0.00E+00	0.00E+00	4.18E-02	3.76E-04	4.35E-09	4.35E-02	8.57E-02	7.40E-02
Post Closure	Selenium	Hare	4.79E-03	4.98E-10	2.11E-04	2.10E-02	0.00E+00	0.00E+00	0.00E+00	4.79E-03	2.11E-04	4.98E-10	2.10E-02	2.60E-02	2.86E-01
Project-Base	Arsenic	Hare	7.85E-03	8.18E-10	2.62E-05	5.98E-03	0.00E+00	0.00E+00	0.00E+00	7.85E-03	2.62E-05	8.18E-10	5.98E-03	1.39E-02	2.06E-03
Project-Base	Barium	Hare	4.52E-01	4.71E-08	3.89E-04	2.39E-01	0.00E+00	0.00E+00	0.00E+00	4.52E-01	3.89E-04	4.71E-08	2.39E-01	6.92E-01	1.04E-04
Project-Base	Beryllium	Hare	1.65E-03	1.72E-10	4.29E-06	4.24E-03	0.00E+00	0.00E+00	0.00E+00	1.65E-03	4.29E-06	1.72E-10	4.24E-03	5.90E-03	5.90E-06
Project-Base	Chromium	Hare	1.12E-01	1.16E-08	1.92E-05	3.86E-02	0.00E+00	0.00E+00	0.00E+00	1.12E-01	1.92E-05	1.16E-08	3.86E-02	1.50E-01	3.42E-02
Project-Base	Cobalt	Hare	1.73E-02	1.80E-09	1.91E-04	5.05E-03	0.00E+00	0.00E+00	0.00E+00	1.73E-02	1.91E-04	1.80E-09	5.05E-03	2.26E-02	4.37E-03
Project-Base	Iron	Hare	1.67E+02	1.74E-05	1.92E-02	4.78E+01	0.00E+00	0.00E+00	0.00E+00	1.67E+02	1.92E-02	1.74E-05	4.78E+01	2.14E+02	2.12E+01
Project-Base	Lead	Hare	1.73E-02	1.80E-09	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	1.73E-02	0.00E+00	1.80E-09	1.63E-02	3.36E-02	6.51E-03
Project-Base	Manganese	Hare	6.51E+00	6.78E-07	1.13E-02	2.64E+00	0.00E+00	0.00E+00	0.00E+00	6.51E+00	1.13E-02	6.78E-07	2.64E+00	9.17E+00	1.56E+00
Project-Base	Mercury	Hare	1.27E-05	1.32E-12	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	1.32E-12	3.26E-04	3.38E-04	5.74E-04
Project-Base	Molybdenum	Hare	3.71E-02	3.86E-09	2.67E-04	2.51E-02	0.00E+00	0.00E+00	0.00E+00	3.71E-02	2.67E-04	3.86E-09	2.51E-02	6.25E-02	5.40E-02
Project-Base	Selenium	Hare	2.33E-03	2.42E-10	6.48E-05	2.02E-03	0.00E+00	0.00E+00	0.00E+00	2.33E-03	6.48E-05	2.42E-10	2.02E-03	4.41E-03	4.85E-02
Closure-Base	Arsenic	Hare	7.85E-03	8.18E-10	1.98E-05	5.98E-03	0.00E+00	0.00E+00	0.00E+00	7.85E-03	1.98E-05	8.18E-10	5.98E-03	1.39E-02	2.05E-03
Closure-Base	Barium	Hare	4.52E-01	4.71E-08	0.00E+00	2.39E-01	0.00E+00	0.00E+00	0.00E+00	4.52E-01	0.00E+00	4.71E-08	2.39E-01	6.91E-01	1.04E-04
Closure-Base	Beryllium	Hare	1.65E-03	1.72E-10	3.47E-06	4.24E-03	0.00E+00	0.00E+00	0.00E+00	1.65E-03	3.47E-06	1.72E-10	4.24E-03	5.90E-03	5.90E-06
Closure-Base	Chromium	Hare	1.12E-01	1.16E-08	1.56E-05	3.86E-02	0.00E+00	0.00E+00	0.00E+00	1.12E-01	1.56E-05	1.16E-08	3.86E-02	1.50E-01	3.42E-02
Closure-Base	Cobalt	Hare	1.73E-02	1.80E-09	1.17E-04	5.05E-03	0.00E+00	0.00E+00	0.00E+00	1.73E-02	1.17E-04	1.80E-09	5.05E-03	2.25E-02	4.35E-03
Closure-Base	Iron	Hare	1.67E+02	1.74E-05	4.78E-03	4.78E+01	0.00E+00	0.00E+00	0.00E+00	1.67E+02	4.78E-03	1.74E-05	4.78E+01	2.14E+02	2.12E+01
Closure-Base	Lead	Hare	1.73E-02	1.80E-09	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	1.73E-02	0.00E+00	1.80E-09	1.63E-02	3.36E-02	6.51E-03
Closure-Base	Manganese	Hare	6.51E+00	6.78E-07	0.00E+00	2.64E+00	0.00E+00	0.00E+00	0.00E+00	6.51E+00	0.00E+00	6.78E-07	2.64E+00	9.16E+00	1.56E+00
Closure-Base	Mercury	Hare	1.27E-05	1.32E-12	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	1.32E-12	3.26E-04	3.38E-04	5.74E-04
Closure-Base	Molybdenum	Hare	3.71E-02	3.86E-09	1.36E-04	2.51E-02	0.00E+00	0.00E+00	0.00E+00	3.71E-02	1.36E-04	3.86E-09	2.51E-02	6.24E-02	5.38E-02
Closure-Base	Selenium	Hare	2.33E-03	2.42E-10	4.82E-05	2.02E-03	0.00E+00	0.00E+00	0.00E+00	2.33E-03	4.82E-05	2.42E-10	2.02E-03	4.40E-03	4.83E-02
Post Closure-Base	Arsenic	Hare	7.85E-03	8.18E-10	4.38E-05	5.98E-03	0.00E+00	0.00E+00	0.00E+00	7.85E-03	4.38E-05	8.18E-10	5.98E-03	1.39E-02	2.06E-03
Post Closure-Base	Barium	Hare	4.52E-01	4.71E-08	3.51E-04	2.39E-01	0.00E+00	0.00E+00	0.00E+00	4.52E-01	3.51E-04	4.71E-08	2.39E-01	6.92E-01	1.04E-04
Post Closure-Base	Beryllium	Hare	1.65E-03	1.72E-10	2.61E-06	4.24E-03	0.00E+00	0.00E+00	0.00E+00	1.65E-03	2.61E-06	1.72E-10	4.24E-03	5.89E-03	5.89E-06
Post Closure-Base	Chromium	Hare	1.12E-01	1.16E-08	2.09E-06	3.86E-02	0.00E+00	0.00E+00	0.00E+00	1.12E-01	2.09E-06	1.16E-08	3.86E-02	1.50E-01	3.42E-02
Post Closure-Base	Cobalt	Hare	1.73E-02	1.80E-09	5.71E-05	5.05E-03	0.00E+00	0.00E+00	0.00E+00	1.73E-02	5.71E-05	1.80E-09	5.05E-03	2.24E-02	4.34E-03
Post Closure-Base	Iron	Hare	1.67E+02	1.74E-05	1.00E-02	4.78E+01	0.00E+00	0.00E+00	0.00E+00	1.67E+02	1.00E-02	1.74E-05	4.78E+01	2.14E+02	2.12E+01
Post Closure-Base	Lead	Hare	1.73E-02	1.80E-09	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	1.73E-02	0.00E+00	1.80E-09	1.63E-02	3.36E-02	6.51E-03
Post Closure-Base	Manganese	Hare	6.51E+00	6.78E-07	6.99E-03	2.64E+00	0.00E+00	0.00E+00	0.00E+00	6.51E+00	6.99E-03	6.78E-07	2.64E+00	9.16E+00	1.56E+00
Post Closure-Base	Mercury	Hare	1.27E-05	1.32E-12	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	1.32E-12	3.26E-04	3.38E-04	5.74E-04
Post Closure-Base	Molybdenum	Hare	3.71E-02	3.86E-09	3.08E-04	2.51E-02	0.00E+00	0.00E+00	0.00E+00	3.71E-02	3.08E-04	3.86E-09	2.51E-02	6.25E-02	5.40E-02
Post Closure-Base	Selenium	Hare	2.33E-03	2.42E-10	1.65E-04	2.02E-03	0.00E+00	0.00E+00	0.00E+00	2.33E-03	1.65E-04	2.42E-10	2.02E-03	4.51E-03	4.96E-02
Base	Arsenic	Mallard	4.26E-03	7.69E-10	1.46E-05	6.30E-04	2.13E-03	1.24E-03	5.20E-03	4.26E-03	1.46E-05	7.69E-10	9.21E-03	1.35E-02	8.00E-02
Base	Barium	Mallard	2.42E-01	4.36E-08	1.23E-03	5.71E-02	4.91E-01	4.82E-01	3.89E-01	2.42E-01	1.23E-03	4.36E-08	1.42E+00	1.66E+00	2.49E-04
Base	Beryllium	Mallard	5.74E-04	1.04E-10	6.66E-06	7.07E-04	5.98E-04	1.15E-03	1.14E-03	5.74E-04	6.66E-06	1.04E-10	3.59E-03	4.17E-03	4.17E-06
Base	Chromium	Mallard	1.40E-01	2.52E-08	8.21E-05	8.67E-03	4.91E-01	2.70E-02	4.39E-01	1.40E-01	8.21E-05	2.52E-08	9.66E-01	1.11E+00	6.00E-02
Base	Cobalt	Mallard	2.38E-02	4.29E-09	1.00E-05	2.68E-04	5.59E-04	4.39E-03	4.01E-04	2.38E-02	1.00E-05	4.29E-09	5.62E-03	2.94E-02	4.67E-02
Base	Iron	Mallard	1.59E+02	2.88E-05	8.35E-03	1.03E+00	5.00E+01	8.69E+00	4.47E+01	1.59E+02	8.35E-03	2.88E-05	1.04E+02	2.64E+02	9.28E+01
Base	Lead	Mallard	1.53E-02	2.77E-09	5.36E-05	2.51E-03	5.42E-01	1.26E-02	1.11E-01	1.53E-02	5.36E-05	2.77E-09	6.68E-01	6.83E-01	8.00E-02
Base	Manganese	Mallard	2.97E+00	5.36E-07	3.64E-02	3.56E-01	2.18E+02	1.96E-01	1.95E+02	2.97E+00	3.64E-02	5.36E-07	4.13E+02	4.16E+02	1.14E+00
Base	Mercury	Mallard	9.90E-05	1.79E-11	2.54E-06	2.17E-04	2.79E-01	1.06E-03	7.65E-02	9.90E-05	2.54E-06	1.79E-11	3.57E-01	3.57E-01	1.50E-01
Base	Molybdenum	Mallard	1.87E-03	3.38E-10	5.28E-05	7.09E-04	3.16E-01	2.70E-03	2.82E-01	1.87E-03	5.28E-05	3.38E-10	6.02E-01	6.04E-01	5.00E-02
Base	Selenium	Mallard	9.90E-04	1.79E-10	2.57E-05	7.08E-04	6.47E-02	1.98E-03	5.76E-02	9.90E-04	2.57E-05	1.79E-10	1.25E-01	1.26E-01	1.35E+00
Project	Arsenic	Mallard	7.42E-03	1.34E-09	3.28E-05	7.41E-04	4.78E-03	1.31E-03	0.012	7.42E-03	3.28E-05	1.34E-09	1.85E-02	2.60E-02	1.54E-01
Project	Barium	Mallard	4.24E-01	7.66E-08	9.64E-04	6.63E-02	3.85E-01	5.19E-01	3.04E-01	4.24E-01	9.64E-04	7.66E-08	1.27E+00	1.70E+00	2.55E-04
Project	Beryllium	Mallard	1.24E-03	2.24E-10	9.94E-06	7.84E-04	8.93E-04	1.28E-03	1.70E-03	1.24E-03	9.94E-06	2.24E-10	4.66E-03	5.91E-03	5.91E-06
Project	Chromium	Mallard	1.85E-01	3.34E-08	9.81E-05	1.02E-02	5.87E-01	2.69E-02	5.25E-01	1.85E-01	9.81E-05	3.34E-08	1.15E+00	1.33E+00	7.24E-02
Project	Cobalt	Mallard	3.07E-02	5.55E-09	1.17E-04	4.62E-04	6.54E-03	4.52E-03	4.69E-03	3.07E-02	1.17E-04	5.55E-09	1.62E-02	4.71E-02	7.47E-02
Project	Iron	Mallard	2.27E+02	4.09E-05	1.35E-02	2.86E+00	8.06E+01	9.06E+00	7.20E+01	2.27E+02	1.35E-02	4.09E-05	1.65E+02	3.91E+02	1.38E+02

Table 2-2: Calculated Wildlife Exposure Estimates

Case	Chemical	Receptor	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Browse Soil [mg/day]	A_inverts Surface Water [mg/day]	T_inverts Soil [mg/day]	Aq_plants Surface Water [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total AIR [mg/day]	Total Diet [mg/day]	Total [mg/day]	Game Meat Concentration Projected [mg/kg-WW]
Project	Lead	Mallard	2.23E-02	4.03E-09	1.32E-05	2.76E-03	1.34E-01	1.31E-02	2.74E-02	2.23E-02	1.32E-05	4.03E-09	1.77E-01	1.99E-01	2.33E-02
Project	Manganese	Mallard	5.59E+00	1.01E-06	7.03E-03	4.58E-01	4.21E+01	2.07E-01	3.76E+01	5.59E+00	7.03E-03	1.01E-06	8.03E+01	8.59E+01	2.36E-01
Project	Mercury	Mallard	1.04E-04	1.88E-11	2.52E-06	2.18E-04	2.77E-01	1.06E-03	7.58E-02	1.04E-04	2.52E-06	1.88E-11	3.54E-01	3.54E-01	1.49E-01
Project	Molybdenum	Mallard	1.68E-02	3.04E-09	1.76E-04	1.67E-03	1.05E+00	4.86E-03	9.41E-01	1.68E-02	1.76E-04	3.04E-09	2.00E+00	2.02E+00	1.67E-01
Project	Selenium	Mallard	1.93E-03	3.48E-10	6.98E-05	8.08E-04	1.76E-01	2.16E-03	1.56E-01	1.93E-03	6.98E-05	3.48E-10	3.35E-01	3.37E-01	3.61E+00
Closure	Arsenic	Mallard	7.42E-03	1.34E-09	2.56E-05	7.41E-04	3.72E-03	1.31E-03	9.10E-03	7.42E-03	2.56E-05	1.34E-09	1.49E-02	2.23E-02	1.32E-01
Closure	Barium	Mallard	4.24E-01	7.66E-08	9.58E-04	6.63E-02	3.82E-01	5.19E-01	3.03E-01	4.24E-01	9.58E-04	7.66E-08	1.27E+00	1.69E+00	2.54E-04
Closure	Beryllium	Mallard	1.24E-03	2.24E-10	8.58E-06	7.84E-04	7.71E-04	1.28E-03	1.47E-03	1.24E-03	8.58E-06	2.24E-10	4.30E-03	5.55E-03	5.55E-06
Closure	Chromium	Mallard	1.85E-01	3.34E-08	9.07E-05	1.02E-02	5.43E-01	2.69E-02	4.85E-01	1.85E-01	9.07E-05	3.34E-08	1.07E+00	1.25E+00	6.78E-02
Closure	Cobalt	Mallard	3.07E-02	5.55E-09	7.49E-05	4.62E-04	4.19E-03	4.52E-03	3.00E-03	3.07E-02	7.49E-05	5.55E-09	1.22E-02	4.30E-02	6.82E-02
Closure	Iron	Mallard	2.27E+02	4.09E-05	1.10E-02	2.86E+00	6.59E+01	9.06E+00	5.89E+01	2.27E+02	1.10E-02	4.09E-05	1.37E+02	3.63E+02	1.28E+02
Closure	Lead	Mallard	2.23E-02	4.03E-09	1.25E-05	2.76E-03	1.26E-01	1.31E-02	2.58E-02	2.23E-02	1.25E-05	4.03E-09	1.67E-01	1.90E-01	2.22E-02
Closure	Manganese	Mallard	5.59E+00	1.01E-06	5.33E-03	4.58E-01	3.19E+01	2.07E-01	2.85E+01	5.59E+00	5.33E-03	1.01E-06	6.11E+01	6.67E+01	1.83E-01
Closure	Mercury	Mallard	1.04E-04	1.88E-11	2.52E-06	2.18E-04	2.77E-01	1.06E-03	7.59E-02	1.04E-04	2.52E-06	1.88E-11	3.54E-01	3.54E-01	1.49E-01
Closure	Molybdenum	Mallard	1.68E-02	3.04E-09	1.28E-04	1.67E-03	7.68E-01	4.86E-03	6.87E-01	1.68E-02	1.28E-04	3.04E-09	1.46E+00	1.48E+00	1.22E-01
Closure	Selenium	Mallard	1.93E-03	3.48E-10	5.24E-05	8.08E-04	1.32E-01	2.16E-03	1.17E-01	1.93E-03	5.24E-05	3.48E-10	2.53E-01	2.54E-01	2.73E+00
Post Closure	Arsenic	Mallard	7.42E-03	1.34E-09	3.89E-05	7.41E-04	5.66E-03	1.31E-03	1.38E-02	7.42E-03	3.89E-05	1.34E-09	2.15E-02	2.90E-02	1.72E-01
Post Closure	Barium	Mallard	4.24E-01	7.66E-08	9.43E-04	6.63E-02	3.77E-01	5.19E-01	2.98E-01	4.24E-01	9.43E-04	7.66E-08	1.26E+00	1.68E+00	2.53E-04
Post Closure	Beryllium	Mallard	1.24E-03	2.24E-10	8.11E-06	7.84E-04	7.28E-04	1.28E-03	1.39E-03	1.24E-03	8.11E-06	2.24E-10	4.18E-03	5.43E-03	5.43E-06
Post Closure	Chromium	Mallard	1.85E-01	3.34E-08	8.32E-05	1.02E-02	4.98E-01	2.69E-02	4.46E-01	1.85E-01	8.32E-05	3.34E-08	9.81E-01	1.17E+00	6.32E-02
Post Closure	Cobalt	Mallard	3.07E-02	5.55E-09	4.16E-05	4.62E-04	2.33E-03	4.52E-03	1.67E-03	3.07E-02	4.16E-05	5.55E-09	8.98E-03	3.98E-02	6.31E-02
Post Closure	Iron	Mallard	2.27E+02	4.09E-05	1.29E-02	2.86E+00	7.73E+01	9.06E+00	6.91E+01	2.27E+02	1.29E-02	4.09E-05	1.58E+02	3.85E+02	1.35E+02
Post Closure	Lead	Mallard	2.23E-02	4.03E-09	1.12E-05	2.76E-03	1.14E-01	1.31E-02	2.33E-02	2.23E-02	1.12E-05	4.03E-09	1.53E-01	1.75E-01	2.05E-02
Post Closure	Manganese	Mallard	5.59E+00	1.01E-06	4.93E-03	4.58E-01	2.95E+01	2.07E-01	2.64E+01	5.59E+00	4.93E-03	1.01E-06	5.66E+01	6.22E+01	1.71E-01
Post Closure	Mercury	Mallard	1.04E-04	1.88E-11	2.49E-06	2.18E-04	2.74E-01	1.06E-03	7.50E-02	1.04E-04	2.49E-06	1.88E-11	3.50E-01	3.50E-01	1.47E-01
Post Closure	Molybdenum	Mallard	1.68E-02	3.04E-09	2.08E-04	1.67E-03	1.25E+00	4.86E-03	1.11E+00	1.68E-02	2.08E-04	3.04E-09	2.37E+00	2.38E+00	1.97E-01
Post Closure	Selenium	Mallard	1.93E-03	3.48E-10	1.17E-04	8.08E-04	2.95E-01	2.16E-03	2.62E-01	1.93E-03	1.17E-04	3.48E-10	5.60E-01	5.62E-01	6.02E+00
Project-Base	Arsenic	Mallard	3.16E-03	5.72E-10	1.45E-05	2.30E-04	2.12E-03	1.99E-04	5.17E-03	3.16E-03	1.45E-05	5.72E-10	7.71E-03	1.09E-02	6.46E-02
Project-Base	Barium	Mallard	1.82E-01	3.29E-08	2.15E-04	9.18E-03	8.59E-02	3.64E-02	6.80E-02	1.82E-01	2.15E-04	3.29E-08	1.99E-01	3.82E-01	5.73E-05
Project-Base	Beryllium	Mallard	6.66E-04	1.20E-10	2.38E-06	1.63E-04	2.14E-04	1.33E-04	4.07E-04	6.66E-04	2.38E-06	1.20E-10	9.17E-04	1.59E-03	1.59E-06
Project-Base	Chromium	Mallard	4.51E-02	8.14E-09	1.07E-05	1.48E-03	6.38E-02	3.39E-02	5.70E-02	4.51E-02	1.07E-05	8.14E-09	1.56E-01	2.01E-01	1.09E-02
Project-Base	Cobalt	Mallard	6.97E-03	1.26E-09	1.06E-04	1.94E-04	5.91E-03	1.29E-04	4.24E-03	6.97E-03	1.06E-04	1.26E-09	1.05E-02	1.76E-02	2.79E-02
Project-Base	Iron	Mallard	6.72E+01	1.21E-05	1.06E-02	1.84E+00	6.36E+01	3.66E-01	5.68E+01	6.72E+01	1.06E-02	1.21E-05	1.23E+02	1.90E+02	6.67E+01
Project-Base	Lead	Mallard	6.96E-03	1.26E-09	0.00E+00	6.29E-04	0.00E+00	1.04E-03	0.00E+00	6.96E-03	0.00E+00	1.26E-09	1.67E-03	8.63E-03	1.01E-03
Project-Base	Manganese	Mallard	2.62E+00	4.74E-07	6.24E-03	1.02E-01	3.74E+01	3.74E-02	3.34E+01	2.62E+00	6.24E-03	4.74E-07	7.09E+01	7.35E+01	2.02E-01
Project-Base	Mercury	Mallard	5.12E-06	9.25E-13	0.00E+00	1.25E-05	0.00E+00	5.71E-04	0.00E+00	5.12E-06	0.00E+00	9.25E-13	5.84E-04	5.89E-04	2.48E-04
Project-Base	Molybdenum	Mallard	1.50E-02	2.70E-09	1.48E-04	9.66E-04	8.85E-01	2.16E-03	7.91E-01	1.50E-02	1.48E-04	2.70E-09	1.68E+00	1.69E+00	1.40E-01
Project-Base	Selenium	Mallard	9.38E-04	1.69E-10	3.59E-05	7.76E-05	9.04E-02	1.87E-04	8.04E-02	9.38E-04	3.59E-05	1.69E-10	1.71E-01	1.72E-01	1.84E+00
Closure-Base	Arsenic	Mallard	3.16E-03	5.72E-10	1.09E-05	2.30E-04	1.59E-03	1.99E-04	3.89E-03	3.16E-03	1.09E-05	5.72E-10	5.92E-03	9.09E-03	5.40E-02
Closure-Base	Barium	Mallard	1.82E-01	3.29E-08	0.00E+00	9.18E-03	0.00E+00	3.64E-02	0.00E+00	1.82E-01	0.00E+00	3.29E-08	4.56E-02	2.28E-01	3.42E-05
Closure-Base	Beryllium	Mallard	6.66E-04	1.20E-10	1.92E-06	1.63E-04	1.72E-04	1.33E-04	3.29E-04	6.66E-04	1.92E-06	1.20E-10	7.97E-04	1.46E-03	1.46E-06
Closure-Base	Chromium	Mallard	4.51E-02	8.14E-09	8.62E-06	1.48E-03	5.16E-02	3.39E-02	4.62E-02	4.51E-02	8.62E-06	8.14E-09	1.33E-01	1.78E-01	9.67E-03
Closure-Base	Cobalt	Mallard	6.97E-03	1.26E-09	6.49E-05	1.94E-04	3.63E-03	1.29E-04	2.60E-03	6.97E-03	6.49E-05	1.26E-09	6.55E-03	1.36E-02	2.16E-02
Closure-Base	Iron	Mallard	6.72E+01	1.21E-05	2.65E-03	1.84E+00	1.59E+01	3.66E-01	1.42E+01	6.72E+01	2.65E-03	1.21E-05	3.22E+01	9.94E+01	3.50E+01
Closure-Base	Lead	Mallard	6.96E-03	1.26E-09	0.00E+00	6.29E-04	0.00E+00	1.04E-03	0.00E+00	6.96E-03	0.00E+00	1.26E-09	1.67E-03	8.63E-03	1.01E-03
Closure-Base	Manganese	Mallard	2.62E+00	4.74E-07	0.00E+00	1.02E-01	0.00E+00	3.74E-02	0.00E+00	2.62E+00	0.00E+00	4.74E-07	1.39E-01	2.76E+00	7.58E-03
Closure-Base	Mercury	Mallard	5.12E-06	9.25E-13	0.00E+00	1.25E-05	0.00E+00	5.71E-04	0.00E+00	5.12E-06	0.00E+00	9.25E-13	5.84E-04	5.89E-04	2.48E-04
Closure-Base	Molybdenum	Mallard	1.50E-02	2.70E-09	7.56E-05	9.66E-04	4.52E-01	2.16E-03	4.04E-01	1.50E-02	7.56E-05	2.70E-09	8.60E-01	8.75E-01	7.25E-02
Closure-Base	Selenium	Mallard	9.38E-04	1.69E-10	2.67E-05	7.76E-05	6.73E-02	1.87E-04	5.99E-02	9.38E-04	2.67E-05	1.69E-10	1.27E-01	1.28E-01	1.38E+00
Post Closure-Base	Arsenic	Mallard	3.16E-03	5.72E-10	2.42E-05	2.30E-04	3.53E-03	1.99E-04	8.63E-03	3.16E-03	2.42E-05	5.72E-10	1.26E-02	1.58E-02	9.37E-02
Post Closure-Base	Barium	Mallard	1.82E-01	3.29E-08	1.94E-04	9.18E-03	7.76E-02	3.64E-02	6.14E-02	1.82E-01	1.94E-04	3.29E-08	1.85E-01	3.67E-01	5.51E-05
Post Closure-Base	Beryllium	Mallard	6.66E-04	1.20E-10	1.45E-06	1.63E-04	1.30E-04	1.33E-04	2.48E-04	6.66E-04	1.45E-06	1.20E-10	6.73E-04	1.34E-03	1.34E-06
Post Closure-Base	Chromium	Mallard	4.51E-02	8.14E-09	1.16E-06	1.48E-03	6.94E-03	3.39E-02	6.21E-03	4.51E-02	1.16E-06	8.14E-09	4.86E-02	9.36E-02	5.08E-03
Post Closure-Base	Cobalt	Mallard	6.97E-03	1.26E-09	3.16E-05	1.94E-04	1.77E-03	1.29E-04	1.27E-03	6.97E-03	3.16E-05	1.26E-09	3.36E-03	1.04E-02	1.65E-02
Post Closure-Base	Iron	Mallard	6.72E+01	1.21E-05	5.55E-03	1.84E+00	3.32E+01	3.66E-01	2.97E+01	6.72E+01	5.55E-03	1.21E-05	6.51E+01	1.32E+02	4.65E+01
Post Closure-Base	Lead	Mallard	6.96E-03	1.26E-09	0.00E+00	6.29E-04	0.00E+00	1.04E-03	0.00E+00	6.96E-03	0.00E+00	1.26E-09	1.67E-03	8.63E-03	1.01E-03
Post Closure-Base	Manganese	Mallard	2.62E+00	4.74E-07	3.87E-03	1.02E-01	2.32E+01	3.74E-02	2.07E+01	2.62E+00	3.87E-03	4.74E-07	4.40E+01	4.67E+01	1.28E-01

Table 2-2: Calculated Wildlife Exposure Estimates

Case	Chemical	Receptor	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Browse Soil [mg/day]	A_inverts Surface Water [mg/day]	T_inverts Soil [mg/day]	Aq_plants Surface Water [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total AIR [mg/day]	Total Diet [mg/day]	Total [mg/day]	Game Meat Concentration Projected [mg/kg-WW]
Post Closure-Base	Mercury	Mallard	5.12E-06	9.25E-13	0.00E+00	1.25E-05	0.00E+00	5.71E-04	0.00E+00	5.12E-06	0.00E+00	9.25E-13	5.84E-04	5.89E-04	2.48E-04
Post Closure-Base	Molybdenum	Mallard	1.50E-02	2.70E-09	1.71E-04	9.66E-04	1.02E+00	2.16E-03	9.13E-01	1.50E-02	1.71E-04	2.70E-09	1.94E+00	1.95E+00	1.62E-01
Post Closure-Base	Selenium	Mallard	9.38E-04	1.69E-10	9.13E-05	7.76E-05	2.30E-01	1.87E-04	2.05E-01	9.38E-04	9.13E-05	1.69E-10	4.35E-01	4.36E-01	4.67E+00
Project	Arsenic	Moose	0.600	1.88E-07	9.11E-03	1.58E+00	0.00E+00	0.00E+00	6.23E-01	6.00E-01	9.11E-03	1.88E-07	2.20E+00	2.81E+00	4.28E-03
Project	Barium	Moose	3.43E+01	1.07E-05	2.68E-01	1.41E+02	0.00E+00	0.00E+00	1.62E+01	3.43E+01	2.68E-01	1.07E-05	1.58E+02	1.92E+02	2.88E-02
Project	Beryllium	Moose	1.00E-01	3.14E-08	2.76E-03	1.67E+00	0.00E+00	0.00E+00	9.08E-02	1.00E-01	2.76E-03	3.14E-08	1.76E+00	1.87E+00	1.87E-03
Project	Chromium	Moose	1.49E+01	4.67E-06	2.73E-02	2.17E+01	0.00E+00	0.00E+00	2.80E+01	1.49E+01	2.73E-02	4.67E-06	4.97E+01	6.46E+01	8.50E-02
Project	Cobalt	Moose	2.48E+00	7.77E-07	3.25E-02	9.87E-01	0.00E+00	0.00E+00	2.50E-01	2.48E+00	3.25E-02	7.77E-07	1.24E+00	3.75E+00	1.61E-02
Project	Iron	Moose	1.83E+04	5.73E-03	3.74E+00	6.11E+03	0.00E+00	0.00E+00	3.84E+03	1.83E+04	3.74E+00	5.73E-03	9.95E+03	2.83E+04	5.63E+01
Project	Lead	Moose	1.80E+00	5.64E-07	3.68E-03	5.88E+00	0.00E+00	0.00E+00	1.46E+00	1.80E+00	3.68E-03	5.64E-07	7.35E+00	9.15E+00	2.19E-02
Project	Manganese	Moose	4.52E+02	1.41E-04	1.95E+00	9.77E+02	0.00E+00	0.00E+00	2.01E+03	4.52E+02	1.95E+00	1.41E-04	2.98E+03	3.44E+03	1.30E-01
Project	Mercury	Moose	8.41E-03	2.63E-09	7.00E-04	4.65E-01	0.00E+00	0.00E+00	4.04E+00	8.41E-03	7.00E-04	2.63E-09	4.51E+00	4.52E+00	9.93E-03
Project	Molybdenum	Moose	1.36E+00	4.25E-07	4.88E-02	3.57E+00	0.00E+00	0.00E+00	5.02E+01	1.36E+00	4.88E-02	4.25E-07	5.38E+01	5.52E+01	3.29E-02
Project	Selenium	Moose	1.56E-01	4.88E-08	1.94E-02	1.72E+00	0.00E+00	0.00E+00	8.34E+00	1.56E-01	1.94E-02	4.88E-08	1.01E+01	1.02E+01	3.29E-01
Closure	Arsenic	Moose	6.00E-01	1.88E-07	7.10E-03	1.58E+00	0.00E+00	0.00E+00	4.85E-01	6.00E-01	7.10E-03	1.88E-07	2.07E+00	2.67E+00	4.07E-03
Closure	Barium	Moose	3.43E+01	1.07E-05	2.66E-01	1.41E+02	0.00E+00	0.00E+00	1.61E+01	3.43E+01	2.66E-01	1.07E-05	1.58E+02	1.92E+02	2.88E-02
Closure	Beryllium	Moose	1.00E-01	3.14E-08	2.38E-03	1.67E+00	0.00E+00	0.00E+00	7.84E-02	1.00E-01	2.38E-03	3.14E-08	1.75E+00	1.85E+00	1.85E-03
Closure	Chromium	Moose	1.49E+01	4.67E-06	2.52E-02	2.17E+01	0.00E+00	0.00E+00	2.59E+01	1.49E+01	2.52E-02	4.67E-06	4.76E+01	6.25E+01	8.22E-02
Closure	Cobalt	Moose	2.48E+00	7.77E-07	2.08E-02	9.87E-01	0.00E+00	0.00E+00	1.60E-01	2.48E+00	2.08E-02	7.77E-07	1.15E+00	3.65E+00	1.57E-02
Closure	Iron	Moose	1.83E+04	5.73E-03	3.06E+00	6.11E+03	0.00E+00	0.00E+00	3.14E+03	1.83E+04	3.06E+00	5.73E-03	9.25E+03	2.76E+04	5.49E+01
Closure	Lead	Moose	1.80E+00	5.64E-07	3.46E-03	5.88E+00	0.00E+00	0.00E+00	1.38E+00	1.80E+00	3.46E-03	5.64E-07	7.26E+00	9.06E+00	2.17E-02
Closure	Manganese	Moose	4.52E+02	1.41E-04	1.48E+00	9.77E+02	0.00E+00	0.00E+00	1.52E+03	4.52E+02	1.48E+00	1.41E-04	2.50E+03	2.95E+03	1.11E-01
Closure	Mercury	Moose	8.41E-03	2.63E-09	7.01E-04	4.65E-01	0.00E+00	0.00E+00	4.05E+00	8.41E-03	7.01E-04	2.63E-09	4.51E+00	4.52E+00	9.94E-03
Closure	Molybdenum	Moose	1.36E+00	4.25E-07	3.56E-02	3.57E+00	0.00E+00	0.00E+00	3.66E+01	1.36E+00	3.56E-02	4.25E-07	4.02E+01	4.16E+01	2.48E-02
Closure	Selenium	Moose	1.56E-01	4.88E-08	1.46E-02	1.72E+00	0.00E+00	0.00E+00	6.27E+00	1.56E-01	1.46E-02	4.88E-08	7.99E+00	8.16E+00	2.62E-01
Post Closure	Arsenic	Moose	6.00E-01	1.88E-07	1.08E-02	1.58E+00	0.00E+00	0.00E+00	7.38E-01	6.00E-01	1.08E-02	1.88E-07	2.32E+00	2.93E+00	4.46E-03
Post Closure	Barium	Moose	3.43E+01	1.07E-05	2.62E-01	1.41E+02	0.00E+00	0.00E+00	1.59E+01	3.43E+01	2.62E-01	1.07E-05	1.57E+02	1.92E+02	2.88E-02
Post Closure	Beryllium	Moose	1.00E-01	3.14E-08	2.25E-03	1.67E+00	0.00E+00	0.00E+00	7.40E-02	1.00E-01	2.25E-03	3.14E-08	1.75E+00	1.85E+00	1.85E-03
Post Closure	Chromium	Moose	1.49E+01	4.67E-06	2.31E-02	2.17E+01	0.00E+00	0.00E+00	2.38E+01	1.49E+01	2.31E-02	4.67E-06	4.54E+01	6.04E+01	7.94E-02
Post Closure	Cobalt	Moose	2.48E+00	7.77E-07	1.16E-02	9.87E-01	0.00E+00	0.00E+00	8.90E-02	2.48E+00	1.16E-02	7.77E-07	1.08E+00	3.57E+00	1.53E-02
Post Closure	Iron	Moose	1.83E+04	5.73E-03	3.58E+00	6.11E+03	0.00E+00	0.00E+00	3.68E+03	1.83E+04	3.58E+00	5.73E-03	9.79E+03	2.81E+04	5.60E+01
Post Closure	Lead	Moose	1.80E+00	5.64E-07	3.12E-03	5.88E+00	0.00E+00	0.00E+00	1.24E+00	1.80E+00	3.12E-03	5.64E-07	7.13E+00	8.93E+00	2.14E-02
Post Closure	Manganese	Moose	4.52E+02	1.41E-04	1.37E+00	9.77E+02	0.00E+00	0.00E+00	1.41E+03	4.52E+02	1.37E+00	1.41E-04	2.39E+03	2.84E+03	1.07E-01
Post Closure	Mercury	Moose	8.41E-03	2.63E-09	6.93E-04	4.65E-01	0.00E+00	0.00E+00	4.00E+00	8.41E-03	6.93E-04	2.63E-09	4.47E+00	4.48E+00	9.84E-03
Post Closure	Molybdenum	Moose	1.36E+00	4.25E-07	5.78E-02	3.57E+00	0.00E+00	0.00E+00	5.94E+01	1.36E+00	5.78E-02	4.25E-07	6.30E+01	6.44E+01	3.85E-02
Post Closure	Selenium	Moose	1.56E-01	4.88E-08	3.25E-02	1.72E+00	0.00E+00	0.00E+00	1.40E+01	1.56E-01	3.25E-02	4.88E-08	1.57E+01	1.59E+01	5.10E-01
Base	Arsenic	Moose	3.44E-01	1.08E-07	4.06E-03	1.34E+00	0.00E+00	0.00E+00	2.77E-01	3.44E-01	4.06E-03	1.08E-07	1.62E+00	1.97E+00	3.00E-03
Base	Barium	Moose	1.95E+01	6.11E-06	3.42E-01	1.22E+02	0.00E+00	0.00E+00	2.07E+01	1.95E+01	3.42E-01	6.11E-06	1.43E+02	1.62E+02	2.44E-02
Base	Beryllium	Moose	4.64E-02	1.45E-08	1.85E-03	1.51E+00	0.00E+00	0.00E+00	6.08E-02	4.64E-02	1.85E-03	1.45E-08	1.57E+00	1.62E+00	1.62E-03
Base	Chromium	Moose	1.13E+01	3.53E-06	2.28E-02	1.85E+01	0.00E+00	0.00E+00	2.34E+01	1.13E+01	2.28E-02	3.53E-06	4.19E+01	5.32E+01	7.00E-02
Base	Cobalt	Moose	1.92E+00	6.01E-07	2.78E-03	5.72E-01	0.00E+00	0.00E+00	2.14E-02	1.92E+00	2.78E-03	6.01E-07	5.94E-01	2.52E+00	1.08E-02
Base	Iron	Moose	1.29E+04	4.03E-03	2.32E+00	2.19E+03	0.00E+00	0.00E+00	2.38E+03	1.29E+04	2.32E+00	4.03E-03	4.57E+03	1.75E+04	3.48E+01
Base	Lead	Moose	1.24E+00	3.88E-07	1.49E-02	5.35E+00	0.00E+00	0.00E+00	5.93E+00	1.24E+00	1.49E-02	3.88E-07	1.13E+01	1.25E+01	3.00E-02
Base	Manganese	Moose	2.40E+02	7.51E-05	1.01E+01	7.60E+02	0.00E+00	0.00E+00	1.04E+04	2.40E+02	1.01E+01	7.51E-05	1.11E+04	1.14E+04	4.30E-01
Base	Mercury	Moose	8.00E-03	2.50E-09	7.06E-04	4.63E-01	0.00E+00	0.00E+00	4.08E+00	8.00E-03	7.06E-04	2.50E-09	4.54E+00	4.55E+00	1.00E-02
Base	Molybdenum	Moose	1.51E-01	4.73E-08	1.47E-02	1.51E+00	0.00E+00	0.00E+00	1.51E+01	1.51E-01	1.47E-02	4.73E-08	1.66E+01	1.67E+01	1.00E-02
Base	Selenium	Moose	8.00E-02	2.50E-08	7.14E-03	1.51E+00	0.00E+00	0.00E+00	3.07E+00	8.00E-02	7.14E-03	2.50E-08	4.58E+00	4.67E+00	1.50E-01
Project-Base	Arsenic	Moose	2.56E-01	8.00E-08	4.03E-03	4.91E-01	0.00E+00	0.00E+00	2.76E-01	2.56E-01	4.03E-03	8.00E-08	7.66E-01	1.03E+00	1.56E-03
Project-Base	Barium	Moose	1.47E+01	4.61E-06	5.98E-02	1.96E+01	0.00E+00	0.00E+00	3.63E+00	1.47E+01	5.98E-02	4.61E-06	2.32E+01	3.80E+01	5.70E-03
Project-Base	Beryllium	Moose	5.38E-02	1.68E-08	6.61E-04	3.48E-01	0.00E+00	0.00E+00	2.17E-02	5.38E-02	6.61E-04	1.68E-08	3.70E-01	4.24E-01	4.24E-04
Project-Base	Chromium	Moose	3.64E+00	1.14E-06	2.96E-03	3.17E+00	0.00E+00	0.00E+00	3.04E+00	3.64E+00	2.96E-03	1.14E-06	6.21E+00	9.85E+00	1.30E-02
Project-Base	Cobalt	Moose	5.64E-01	1.76E-07	2.94E-02	4.14E-01	0.00E+00	0.00E+00	2.26E-01	5.64E-01	2.94E-02	1.76E-07	6.41E-01	1.23E+00	5.29E-03
Project-Base	Iron	Moose	5.43E+03	1.70E-03	2.95E+00	3.92E+03	0.00E+00	0.00E+00	3.03E+03	5.43E+03	2.95E+00	1.70E-03	6.95E+03	1.24E+04	2.47E+01
Project-Base	Lead	Moose	5.63E-01	1.76E-07	0.00E+00	1.34E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-01	0.00E+00	1.76E-07	1.34E+00	1.90E+00	4.56E-03
Project-Base	Manganese	Moose	2.12E+02	6.64E-05	1.73E+00	2.17E+02	0.00E+00	0.00E+00	1.78E+03	2.12E+02	1.73E+00	6.64E-05	2.00E+03	2.21E+03	8.35E-02
Project-Base	Mercury	Moose	4.14E-04	1.29E-10	0.00E+00	2.67E-02	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	1.29E-10	2.67E-02	2.71E-02	5.97E-05
Project-Base	Molybdenum	Moose	1.21E+00	3.78E-07	4.10E-02	2.06E+00	0.00E+00	0.00E+00	4.22E+01	1.21E+00	4.10E-02	3.78E-07	4.42E+01	4.55E+01	2.72E-02

Table 2-2: Calculated Wildlife Exposure Estimates

Case	Chemical	Receptor	Soil SIR [mg/day]	Dust AIR [mg/day]	Surface_water WIR [mg/day]	Browse Soil [mg/day]	A_inverts Surface Water [mg/day]	T_inverts Soil [mg/day]	Aq_plants Surface Water [mg/day]	Total Soil [mg/day]	Total Water [mg/day]	Total AIR [mg/day]	Total Diet [mg/day]	Total [mg/day]	Game Meat Concentration Projected [mg/kg-WW]
Project-Base	Selenium	Moose	7.58E-02	2.37E-08	9.97E-03	1.66E-01	0.00E+00	0.00E+00	4.29E+00	7.58E-02	9.97E-03	2.37E-08	4.45E+00	4.54E+00	1.46E-01
Closure-Base	Arsenic	Moose	2.56E-01	8.00E-08	3.04E-03	4.91E-01	0.00E+00	0.00E+00	2.08E-01	2.56E-01	3.04E-03	8.00E-08	6.99E-01	9.57E-01	1.46E-03
Closure-Base	Barium	Moose	1.47E+01	4.61E-06	0.00E+00	1.96E+01	0.00E+00	0.00E+00	0.00E+00	1.47E+01	0.00E+00	4.61E-06	1.96E+01	3.43E+01	5.15E-03
Closure-Base	Beryllium	Moose	5.38E-02	1.68E-08	5.33E-04	3.48E-01	0.00E+00	0.00E+00	1.75E-02	5.38E-02	5.33E-04	1.68E-08	3.65E-01	4.20E-01	4.20E-04
Closure-Base	Chromium	Moose	3.64E+00	1.14E-06	2.40E-03	3.17E+00	0.00E+00	0.00E+00	2.46E+00	3.64E+00	2.40E-03	1.14E-06	5.63E+00	9.27E+00	1.22E-02
Closure-Base	Cobalt	Moose	5.64E-01	1.76E-07	1.80E-02	4.14E-01	0.00E+00	0.00E+00	1.39E-01	5.64E-01	1.80E-02	1.76E-07	5.53E-01	1.13E+00	4.87E-03
Closure-Base	Iron	Moose	5.43E+03	1.70E-03	7.36E-01	3.92E+03	0.00E+00	0.00E+00	7.56E+02	5.43E+03	7.36E-01	1.70E-03	4.68E+03	1.01E+04	2.01E+01
Closure-Base	Lead	Moose	5.63E-01	1.76E-07	0.00E+00	1.34E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-01	0.00E+00	1.76E-07	1.34E+00	1.90E+00	4.56E-03
Closure-Base	Manganese	Moose	2.12E+02	6.64E-05	0.00E+00	2.17E+02	0.00E+00	0.00E+00	0.00E+00	2.12E+02	0.00E+00	6.64E-05	2.17E+02	4.29E+02	1.62E-02
Closure-Base	Mercury	Moose	4.14E-04	1.29E-10	0.00E+00	2.67E-02	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	1.29E-10	2.67E-02	2.71E-02	5.97E-05
Closure-Base	Molybdenum	Moose	1.21E+00	3.78E-07	2.10E-02	2.06E+00	0.00E+00	0.00E+00	2.16E+01	1.21E+00	2.10E-02	3.78E-07	2.36E+01	2.49E+01	1.48E-02
Closure-Base	Selenium	Moose	7.58E-02	2.37E-08	7.42E-03	1.66E-01	0.00E+00	0.00E+00	3.19E+00	7.58E-02	7.42E-03	2.37E-08	3.36E+00	3.44E+00	1.11E-01
Post Closure-Base	Arsenic	Moose	2.56E-01	8.00E-08	6.73E-03	4.91E-01	0.00E+00	0.00E+00	4.60E-01	2.56E-01	6.73E-03	8.00E-08	9.51E-01	1.21E+00	1.85E-03
Post Closure-Base	Barium	Moose	1.47E+01	4.61E-06	5.40E-02	1.96E+01	0.00E+00	0.00E+00	3.27E+00	1.47E+01	5.40E-02	4.61E-06	2.29E+01	3.77E+01	5.65E-03
Post Closure-Base	Beryllium	Moose	5.38E-02	1.68E-08	4.01E-04	3.48E-01	0.00E+00	0.00E+00	1.32E-02	5.38E-02	4.01E-04	1.68E-08	3.61E-01	4.15E-01	4.15E-04
Post Closure-Base	Chromium	Moose	3.64E+00	1.14E-06	3.22E-04	3.17E+00	0.00E+00	0.00E+00	3.31E-01	3.64E+00	3.22E-04	1.14E-06	3.50E+00	7.14E+00	9.39E-03
Post Closure-Base	Cobalt	Moose	5.64E-01	1.76E-07	8.79E-03	4.14E-01	0.00E+00	0.00E+00	6.76E-02	5.64E-01	8.79E-03	1.76E-07	4.82E-01	1.05E+00	4.53E-03
Post Closure-Base	Iron	Moose	5.43E+03	1.70E-03	1.54E+00	3.92E+03	0.00E+00	0.00E+00	1.58E+03	5.43E+03	1.54E+00	1.70E-03	5.51E+03	1.09E+04	2.18E+01
Post Closure-Base	Lead	Moose	5.63E-01	1.76E-07	0.00E+00	1.34E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-01	0.00E+00	1.76E-07	1.34E+00	1.90E+00	4.56E-03
Post Closure-Base	Manganese	Moose	2.12E+02	6.64E-05	1.08E+00	2.17E+02	0.00E+00	0.00E+00	1.11E+03	2.12E+02	1.08E+00	6.64E-05	1.32E+03	1.54E+03	5.80E-02
Post Closure-Base	Mercury	Moose	4.14E-04	1.29E-10	0.00E+00	2.67E-02	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	1.29E-10	2.67E-02	2.71E-02	5.97E-05
Post Closure-Base	Molybdenum	Moose	1.21E+00	3.78E-07	4.74E-02	2.06E+00	0.00E+00	0.00E+00	4.87E+01	1.21E+00	4.74E-02	3.78E-07	5.07E+01	5.20E+01	3.11E-02
Post Closure-Base	Selenium	Moose	7.58E-02	2.37E-08	2.54E-02	1.66E-01	0.00E+00	0.00E+00	1.09E+01	7.58E-02	2.54E-02	2.37E-08	1.11E+01	1.12E+01	3.59E-01

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Base	Arsenic	Moose	14.6%	0.0000050%	0.2%	35.7%	0.0%	0.0%	0.0%	100.0%
Base	Barium	Moose	4.2%	0.0000014%	0.1%	16.4%	0.0%	0.0%	0.0%	100.0%
Base	Beryllium	Moose	3.3%	0.0000011%	0.1%	67.8%	0.0%	0.0%	0.0%	100.0%
Base	Chromium	Moose	41.1%	0.0000141%	0.1%	42.1%	0.0%	0.0%	0.0%	100.0%
Base	Cobalt	Moose	38.1%	0.0000131%	0.1%	7.1%	0.0%	0.0%	0.0%	100.0%
Base	Iron	Moose	63.6%	0.0000218%	0.0%	6.8%	0.0%	0.0%	0.0%	100.0%
Base	Lead	Moose	13.7%	0.0000047%	0.2%	37.1%	0.0%	0.0%	0.0%	100.0%
Base	Manganese	Moose	10.0%	0.0000034%	0.5%	19.8%	0.0%	0.0%	0.0%	100.0%
Base	Mercury	Moose	2.3%	0.0000008%	0.2%	81.7%	0.0%	0.0%	0.0%	100.0%
Base	Molybdenum	Moose	2.0%	0.0000007%	0.2%	12.3%	0.0%	0.0%	0.0%	100.0%
Base	Selenium	Moose	5.6%	0.0000019%	0.5%	66.3%	0.0%	0.0%	0.0%	100.0%
Project	Arsenic	Moose	16.5%	0.0000057%	0.3%	27.2%	0.0%	0.0%	0.0%	100.0%
Project	Barium	Moose	4.4%	0.0000015%	0.0%	11.5%	0.0%	0.0%	0.0%	100.0%
Project	Beryllium	Moose	5.0%	0.0000017%	0.1%	51.9%	0.0%	0.0%	0.0%	100.0%
Project	Chromium	Moose	43.1%	0.0000148%	0.1%	39.2%	0.0%	0.0%	0.0%	100.0%
Project	Cobalt	Moose	37.1%	0.0000127%	0.5%	9.2%	0.0%	0.0%	0.0%	100.0%
Project	Iron	Moose	59.7%	0.0000205%	0.0%	12.5%	0.0%	0.0%	0.0%	100.0%
Project	Lead	Moose	15.1%	0.0000052%	0.0%	30.9%	0.0%	0.0%	0.0%	100.0%
Project	Manganese	Moose	10.7%	0.0000037%	0.1%	14.5%	0.0%	0.0%	0.0%	100.0%
Project	Mercury	Moose	2.3%	0.0000008%	0.2%	81.0%	0.0%	0.0%	0.0%	100.0%
Project	Molybdenum	Moose	2.2%	0.0000007%	0.1%	3.6%	0.0%	0.0%	0.0%	100.0%
Project	Selenium	Moose	7.7%	0.0000026%	1.0%	53.4%	0.0%	0.0%	0.0%	100.0%
Closure	Arsenic	Moose	16.5%	0.0000057%	0.2%	27.2%	0.0%	0.0%	0.0%	100.0%
Closure	Barium	Moose	4.4%	0.0000015%	0.0%	11.5%	0.0%	0.0%	0.0%	100.0%
Closure	Beryllium	Moose	5.0%	0.0000017%	0.1%	52.0%	0.0%	0.0%	0.0%	100.0%
Closure	Chromium	Moose	43.2%	0.0000148%	0.1%	39.2%	0.0%	0.0%	0.0%	100.0%
Closure	Cobalt	Moose	37.1%	0.0000127%	0.3%	9.2%	0.0%	0.0%	0.0%	100.0%
Closure	Iron	Moose	59.7%	0.0000205%	0.0%	12.5%	0.0%	0.0%	0.0%	100.0%
Closure	Lead	Moose	15.1%	0.0000052%	0.0%	30.9%	0.0%	0.0%	0.0%	100.0%
Closure	Manganese	Moose	10.7%	0.0000037%	0.0%	14.5%	0.0%	0.0%	0.0%	100.0%
Closure	Mercury	Moose	2.3%	0.0000008%	0.2%	81.0%	0.0%	0.0%	0.0%	100.0%
Closure	Molybdenum	Moose	2.2%	0.0000007%	0.1%	3.6%	0.0%	0.0%	0.0%	100.0%
Closure	Selenium	Moose	7.7%	0.0000027%	0.8%	53.5%	0.0%	0.0%	0.0%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Post Closure	Arsenic	Moose	16.5%	0.0000057%	0.3%	27.2%	0.0%	0.0%	0.0%	100.0%
Post Closure	Barium	Moose	4.4%	0.0000015%	0.0%	11.5%	0.0%	0.0%	0.0%	100.0%
Post Closure	Beryllium	Moose	5.0%	0.0000017%	0.1%	52.0%	0.0%	0.0%	0.0%	100.0%
Post Closure	Chromium	Moose	43.2%	0.0000148%	0.1%	39.2%	0.0%	0.0%	0.0%	100.0%
Post Closure	Cobalt	Moose	37.2%	0.0000127%	0.2%	9.2%	0.0%	0.0%	0.0%	100.0%
Post Closure	Iron	Moose	59.7%	0.0000205%	0.0%	12.5%	0.0%	0.0%	0.0%	100.0%
Post Closure	Lead	Moose	15.1%	0.0000052%	0.0%	30.9%	0.0%	0.0%	0.0%	100.0%
Post Closure	Manganese	Moose	10.7%	0.0000037%	0.0%	14.5%	0.0%	0.0%	0.0%	100.0%
Post Closure	Mercury	Moose	2.3%	0.0000008%	0.2%	81.0%	0.0%	0.0%	0.0%	100.0%
Post Closure	Molybdenum	Moose	2.2%	0.0000007%	0.1%	3.6%	0.0%	0.0%	0.0%	100.0%
Post Closure	Selenium	Moose	7.7%	0.0000026%	1.7%	53.0%	0.0%	0.0%	0.0%	100.0%
Base	Arsenic	Hare	29.8%	0.0000088%	0.2%	60.8%	0.0%	9.3%	0.0%	100.0%
Base	Barium	Hare	29.4%	0.0000087%	0.0%	41.5%	0.0%	29.1%	0.0%	100.0%
Base	Beryllium	Hare	11.3%	0.0000034%	0.1%	77.5%	0.0%	11.1%	0.0%	100.0%
Base	Chromium	Hare	17.7%	0.0000053%	0.0%	16.3%	0.0%	66.0%	0.0%	100.0%
Base	Cobalt	Hare	53.0%	0.0000157%	0.8%	41.4%	0.0%	4.8%	0.0%	100.0%
Base	Iron	Hare	55.7%	0.0000165%	0.0%	42.8%	0.0%	1.5%	0.0%	100.0%
Base	Lead	Hare	23.4%	0.0000070%	0.0%	59.3%	0.0%	17.3%	0.0%	100.0%
Base	Manganese	Hare	46.4%	0.0000138%	0.0%	50.4%	0.0%	3.3%	0.0%	100.0%
Base	Mercury	Hare	0.2%	0.0000000%	0.0%	11.0%	0.0%	88.8%	0.0%	100.0%
Base	Molybdenum	Hare	28.3%	0.0000084%	0.2%	51.3%	0.0%	20.2%	0.0%	100.0%
Base	Selenium	Hare	23.0%	0.0000068%	1.0%	53.3%	0.0%	22.7%	0.0%	100.0%
Project	Arsenic	Hare	29.7%	0.0000088%	0.4%	60.7%	0.0%	9.2%	0.0%	100.0%
Project	Barium	Hare	29.4%	0.0000087%	0.1%	41.5%	0.0%	29.0%	0.0%	100.0%
Project	Beryllium	Hare	11.3%	0.0000034%	0.0%	77.5%	0.0%	11.2%	0.0%	100.0%
Project	Chromium	Hare	17.7%	0.0000053%	0.0%	16.3%	0.0%	66.0%	0.0%	100.0%
Project	Cobalt	Hare	53.2%	0.0000158%	0.4%	41.6%	0.0%	4.9%	0.0%	100.0%
Project	Iron	Hare	55.7%	0.0000165%	0.0%	42.8%	0.0%	1.5%	0.0%	100.0%
Project	Lead	Hare	23.4%	0.0000070%	0.0%	59.3%	0.0%	17.3%	0.0%	100.0%
Project	Manganese	Hare	46.3%	0.0000137%	0.1%	50.3%	0.0%	3.3%	0.0%	100.0%
Project	Mercury	Hare	0.2%	0.0000000%	0.0%	11.0%	0.0%	88.8%	0.0%	100.0%
Project	Molybdenum	Hare	28.2%	0.0000084%	0.5%	51.1%	0.0%	20.2%	0.0%	100.0%
Project	Selenium	Hare	22.4%	0.0000066%	3.5%	52.0%	0.0%	22.1%	0.0%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Closure	Arsenic	Hare	39.2%	0.0000041%	0.1%	60.7%	0.0%	0.0%	0.0%	100.0%
Closure	Barium	Hare	28.7%	0.0000030%	0.1%	71.2%	0.0%	0.0%	0.0%	100.0%
Closure	Beryllium	Hare	7.2%	0.0000007%	0.1%	92.7%	0.0%	0.0%	0.0%	100.0%
Closure	Chromium	Hare	60.6%	0.0000063%	0.0%	39.4%	0.0%	0.0%	0.0%	100.0%
Closure	Cobalt	Hare	89.4%	0.0000093%	0.0%	10.6%	0.0%	0.0%	0.0%	100.0%
Closure	Iron	Hare	93.7%	0.0000098%	0.0%	6.3%	0.0%	0.0%	0.0%	100.0%
Closure	Lead	Hare	36.8%	0.0000038%	0.1%	63.1%	0.0%	0.0%	0.0%	100.0%
Closure	Manganese	Hare	44.1%	0.0000046%	0.4%	55.5%	0.0%	0.0%	0.0%	100.0%
Closure	Mercury	Hare	4.2%	0.0000004%	0.1%	95.8%	0.0%	0.0%	0.0%	100.0%
Closure	Molybdenum	Hare	20.0%	0.0000021%	0.4%	79.5%	0.0%	0.0%	0.0%	100.0%
Closure	Selenium	Hare	11.7%	0.0000012%	0.2%	88.0%	0.0%	0.0%	0.0%	100.0%
Post Closure	Arsenic	Hare	48.8%	0.0000051%	0.2%	51.0%	0.0%	0.0%	0.0%	100.0%
Post Closure	Barium	Hare	37.9%	0.0000039%	0.1%	62.1%	0.0%	0.0%	0.0%	100.0%
Post Closure	Beryllium	Hare	13.1%	0.0000014%	0.1%	86.8%	0.0%	0.0%	0.0%	100.0%
Post Closure	Chromium	Hare	63.4%	0.0000066%	0.0%	36.5%	0.0%	0.0%	0.0%	100.0%
Post Closure	Cobalt	Hare	86.2%	0.0000090%	0.2%	13.6%	0.0%	0.0%	0.0%	100.0%
Post Closure	Iron	Hare	88.3%	0.0000092%	0.0%	11.7%	0.0%	0.0%	0.0%	100.0%
Post Closure	Lead	Hare	43.6%	0.0000045%	0.0%	56.4%	0.0%	0.0%	0.0%	100.0%
Post Closure	Manganese	Hare	53.8%	0.0000056%	0.0%	46.1%	0.0%	0.0%	0.0%	100.0%
Post Closure	Mercury	Hare	4.4%	0.0000005%	0.1%	95.6%	0.0%	0.0%	0.0%	100.0%
Post Closure	Molybdenum	Hare	48.8%	0.0000051%	0.4%	50.9%	0.0%	0.0%	0.0%	100.0%
Post Closure	Selenium	Hare	18.5%	0.0000019%	0.5%	81.1%	0.0%	0.0%	0.0%	100.0%
Base	Arsenic	Grouse	48.8%	0.0000051%	0.1%	51.1%	0.0%	0.0%	0.0%	100.0%
Base	Barium	Grouse	37.9%	0.0000039%	0.1%	62.1%	0.0%	0.0%	0.0%	100.0%
Base	Beryllium	Grouse	13.1%	0.0000014%	0.1%	86.8%	0.0%	0.0%	0.0%	100.0%
Base	Chromium	Grouse	63.4%	0.0000066%	0.0%	36.5%	0.0%	0.0%	0.0%	100.0%
Base	Cobalt	Grouse	86.3%	0.0000090%	0.2%	13.6%	0.0%	0.0%	0.0%	100.0%
Base	Iron	Grouse	88.3%	0.0000092%	0.0%	11.7%	0.0%	0.0%	0.0%	100.0%
Base	Lead	Grouse	43.6%	0.0000045%	0.0%	56.4%	0.0%	0.0%	0.0%	100.0%
Base	Manganese	Grouse	53.8%	0.0000056%	0.0%	46.2%	0.0%	0.0%	0.0%	100.0%
Base	Mercury	Grouse	4.4%	0.0000005%	0.1%	95.6%	0.0%	0.0%	0.0%	100.0%
Base	Molybdenum	Grouse	48.8%	0.0000051%	0.3%	50.9%	0.0%	0.0%	0.0%	100.0%
Base	Selenium	Grouse	18.5%	0.0000019%	0.4%	81.1%	0.0%	0.0%	0.0%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Project	Arsenic	Grouse	48.8%	0.0000051%	0.2%	51.0%	0.0%	0.0%	0.0%	100.0%
Project	Barium	Grouse	37.9%	0.0000039%	0.1%	62.1%	0.0%	0.0%	0.0%	100.0%
Project	Beryllium	Grouse	13.1%	0.0000014%	0.1%	86.8%	0.0%	0.0%	0.0%	100.0%
Project	Chromium	Grouse	63.4%	0.0000066%	0.0%	36.5%	0.0%	0.0%	0.0%	100.0%
Project	Cobalt	Grouse	86.3%	0.0000090%	0.1%	13.6%	0.0%	0.0%	0.0%	100.0%
Project	Iron	Grouse	88.3%	0.0000092%	0.0%	11.7%	0.0%	0.0%	0.0%	100.0%
Project	Lead	Grouse	43.6%	0.0000045%	0.0%	56.4%	0.0%	0.0%	0.0%	100.0%
Project	Manganese	Grouse	53.8%	0.0000056%	0.0%	46.2%	0.0%	0.0%	0.0%	100.0%
Project	Mercury	Grouse	4.4%	0.0000005%	0.1%	95.6%	0.0%	0.0%	0.0%	100.0%
Project	Molybdenum	Grouse	48.7%	0.0000051%	0.4%	50.8%	0.0%	0.0%	0.0%	100.0%
Project	Selenium	Grouse	18.4%	0.0000019%	0.8%	80.8%	0.0%	0.0%	0.0%	100.0%
Closure	Arsenic	Grouse	56.7%	0.0000059%	0.2%	43.2%	0.0%	0.0%	0.0%	100.0%
Closure	Barium	Grouse	65.4%	0.0000068%	0.1%	34.5%	0.0%	0.0%	0.0%	100.0%
Closure	Beryllium	Grouse	28.0%	0.0000029%	0.1%	71.9%	0.0%	0.0%	0.0%	100.0%
Closure	Chromium	Grouse	74.3%	0.0000077%	0.0%	25.7%	0.0%	0.0%	0.0%	100.0%
Closure	Cobalt	Grouse	76.8%	0.0000080%	0.8%	22.4%	0.0%	0.0%	0.0%	100.0%
Closure	Iron	Grouse	77.7%	0.0000081%	0.0%	22.3%	0.0%	0.0%	0.0%	100.0%
Closure	Lead	Grouse	51.4%	0.0000054%	0.0%	48.6%	0.0%	0.0%	0.0%	100.0%
Closure	Manganese	Grouse	71.1%	0.0000074%	0.1%	28.8%	0.0%	0.0%	0.0%	100.0%
Closure	Mercury	Grouse	3.8%	0.0000004%	0.0%	96.2%	0.0%	0.0%	0.0%	100.0%
Closure	Molybdenum	Grouse	59.4%	0.0000062%	0.4%	40.2%	0.0%	0.0%	0.0%	100.0%
Closure	Selenium	Grouse	52.8%	0.0000055%	1.5%	45.8%	0.0%	0.0%	0.0%	100.0%
Post Closure	Arsenic	Grouse	56.7%	0.0000059%	0.1%	43.2%	0.0%	0.0%	0.0%	100.0%
Post Closure	Barium	Grouse	65.5%	0.0000068%	0.0%	34.5%	0.0%	0.0%	0.0%	100.0%
Post Closure	Beryllium	Grouse	28.0%	0.0000029%	0.1%	71.9%	0.0%	0.0%	0.0%	100.0%
Post Closure	Chromium	Grouse	74.3%	0.0000077%	0.0%	25.7%	0.0%	0.0%	0.0%	100.0%
Post Closure	Cobalt	Grouse	77.0%	0.0000080%	0.5%	22.5%	0.0%	0.0%	0.0%	100.0%
Post Closure	Iron	Grouse	77.7%	0.0000081%	0.0%	22.3%	0.0%	0.0%	0.0%	100.0%
Post Closure	Lead	Grouse	51.4%	0.0000054%	0.0%	48.6%	0.0%	0.0%	0.0%	100.0%
Post Closure	Manganese	Grouse	71.1%	0.0000074%	0.0%	28.9%	0.0%	0.0%	0.0%	100.0%
Post Closure	Mercury	Grouse	3.8%	0.0000004%	0.0%	96.2%	0.0%	0.0%	0.0%	100.0%
Post Closure	Molybdenum	Grouse	59.5%	0.0000062%	0.2%	40.3%	0.0%	0.0%	0.0%	100.0%
Post Closure	Selenium	Grouse	53.0%	0.0000055%	1.1%	45.9%	0.0%	0.0%	0.0%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Base	Arsenic	Mallard	56.6%	0.0000059%	0.3%	43.1%	0.0%	0.0%	0.0%	100.0%
Base	Barium	Mallard	65.4%	0.0000068%	0.1%	34.5%	0.0%	0.0%	0.0%	100.0%
Base	Beryllium	Mallard	28.0%	0.0000029%	0.0%	71.9%	0.0%	0.0%	0.0%	100.0%
Base	Chromium	Mallard	74.3%	0.0000077%	0.0%	25.7%	0.0%	0.0%	0.0%	100.0%
Base	Cobalt	Mallard	77.2%	0.0000080%	0.3%	22.5%	0.0%	0.0%	0.0%	100.0%
Base	Iron	Mallard	77.7%	0.0000081%	0.0%	22.3%	0.0%	0.0%	0.0%	100.0%
Base	Lead	Mallard	51.4%	0.0000054%	0.0%	48.6%	0.0%	0.0%	0.0%	100.0%
Base	Manganese	Mallard	71.1%	0.0000074%	0.1%	28.8%	0.0%	0.0%	0.0%	100.0%
Base	Mercury	Mallard	3.8%	0.0000004%	0.0%	96.2%	0.0%	0.0%	0.0%	100.0%
Base	Molybdenum	Mallard	59.3%	0.0000062%	0.5%	40.2%	0.0%	0.0%	0.0%	100.0%
Base	Selenium	Mallard	51.6%	0.0000054%	3.7%	44.7%	0.0%	0.0%	0.0%	100.0%
Project	Arsenic	Mallard	31.6%	0.0000057%	0.1%	4.7%	15.8%	9.2%	38.6%	100.0%
Project	Barium	Mallard	14.5%	0.0000026%	0.1%	3.4%	29.6%	29.0%	23.4%	100.0%
Project	Beryllium	Mallard	13.8%	0.0000025%	0.2%	16.9%	14.3%	27.5%	27.3%	100.0%
Project	Chromium	Mallard	12.6%	0.0000023%	0.0%	0.8%	44.4%	2.4%	39.7%	100.0%
Project	Cobalt	Mallard	80.8%	0.0000146%	0.0%	0.9%	1.9%	14.9%	1.4%	100.0%
Project	Iron	Mallard	60.4%	0.0000109%	0.0%	0.4%	19.0%	3.3%	16.9%	100.0%
Project	Lead	Mallard	2.2%	0.0000004%	0.0%	0.4%	79.3%	1.8%	16.3%	100.0%
Project	Manganese	Mallard	0.7%	0.0000001%	0.0%	0.1%	52.4%	0.0%	46.8%	100.0%
Project	Mercury	Mallard	0.0%	0.0000000%	0.0%	0.1%	78.2%	0.3%	21.4%	100.0%
Project	Molybdenum	Mallard	0.3%	0.0000001%	0.0%	0.1%	52.3%	0.4%	46.8%	100.0%
Project	Selenium	Mallard	0.8%	0.0000001%	0.0%	0.6%	51.4%	1.6%	45.7%	100.0%
Closure	Arsenic	Mallard	28.6%	0.0000052%	0.1%	2.9%	18.4%	5.0%	45.0%	100.0%
Closure	Barium	Mallard	24.9%	0.0000045%	0.1%	3.9%	22.7%	30.5%	17.9%	100.0%
Closure	Beryllium	Mallard	21.0%	0.0000038%	0.2%	13.3%	15.1%	21.6%	28.8%	100.0%
Closure	Chromium	Mallard	13.8%	0.0000025%	0.0%	0.8%	44.0%	2.0%	39.4%	100.0%
Closure	Cobalt	Mallard	65.3%	0.0000118%	0.2%	1.0%	13.9%	9.6%	10.0%	100.0%
Closure	Iron	Mallard	57.9%	0.0000105%	0.0%	0.7%	20.6%	2.3%	18.4%	100.0%
Closure	Lead	Mallard	11.2%	0.0000020%	0.0%	1.4%	67.1%	6.5%	13.8%	100.0%
Closure	Manganese	Mallard	6.5%	0.0000012%	0.0%	0.5%	49.0%	0.2%	43.8%	100.0%
Closure	Mercury	Mallard	0.0%	0.0000000%	0.0%	0.1%	78.2%	0.3%	21.4%	100.0%
Closure	Molybdenum	Mallard	0.8%	0.0000002%	0.0%	0.1%	52.2%	0.2%	46.6%	100.0%
Closure	Selenium	Mallard	0.6%	0.0000001%	0.0%	0.2%	52.1%	0.6%	46.4%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Post Closure	Arsenic	Mallard	33.3%	0.0000060%	0.1%	3.3%	16.7%	5.9%	40.8%	100.0%
Post Closure	Barium	Mallard	25.0%	0.0000045%	0.1%	3.9%	22.6%	30.6%	17.9%	100.0%
Post Closure	Beryllium	Mallard	22.3%	0.0000040%	0.2%	14.1%	13.9%	23.0%	26.5%	100.0%
Post Closure	Chromium	Mallard	14.8%	0.0000027%	0.0%	0.8%	43.4%	2.2%	38.8%	100.0%
Post Closure	Cobalt	Mallard	71.5%	0.0000129%	0.2%	1.1%	9.7%	10.5%	7.0%	100.0%
Post Closure	Iron	Mallard	62.4%	0.0000113%	0.0%	0.8%	18.1%	2.5%	16.2%	100.0%
Post Closure	Lead	Mallard	11.8%	0.0000021%	0.0%	1.5%	66.3%	6.9%	13.6%	100.0%
Post Closure	Manganese	Mallard	8.4%	0.0000015%	0.0%	0.7%	47.8%	0.3%	42.8%	100.0%
Post Closure	Mercury	Mallard	0.0%	0.0000000%	0.0%	0.1%	78.2%	0.3%	21.4%	100.0%
Post Closure	Molybdenum	Mallard	1.1%	0.0000002%	0.0%	0.1%	52.0%	0.3%	46.4%	100.0%
Post Closure	Selenium	Mallard	0.8%	0.0000001%	0.0%	0.3%	51.9%	0.9%	46.2%	100.0%
Project-Base	Arsenic	Moose	21.3%	0.0000067%	0.3%	56.2%	0.0%	0.0%	22.1%	100.0%
Project-Base	Barium	Moose	17.8%	0.0000056%	0.1%	73.6%	0.0%	0.0%	8.5%	100.0%
Project-Base	Beryllium	Moose	5.4%	0.0000017%	0.1%	89.6%	0.0%	0.0%	4.9%	100.0%
Project-Base	Chromium	Moose	23.1%	0.0000072%	0.0%	33.5%	0.0%	0.0%	43.3%	100.0%
Project-Base	Cobalt	Moose	66.2%	0.0000207%	0.9%	26.3%	0.0%	0.0%	6.7%	100.0%
Project-Base	Iron	Moose	64.8%	0.0000203%	0.0%	21.6%	0.0%	0.0%	13.6%	100.0%
Project-Base	Lead	Moose	19.7%	0.0000062%	0.0%	64.3%	0.0%	0.0%	16.0%	100.0%
Project-Base	Manganese	Moose	13.2%	0.0000041%	0.1%	28.4%	0.0%	0.0%	58.4%	100.0%
Project-Base	Mercury	Moose	0.2%	0.0000001%	0.0%	10.3%	0.0%	0.0%	89.5%	100.0%
Project-Base	Molybdenum	Moose	2.5%	0.0000008%	0.1%	6.5%	0.0%	0.0%	91.0%	100.0%
Project-Base	Selenium	Moose	1.5%	0.0000005%	0.2%	16.8%	0.0%	0.0%	81.5%	100.0%
Project-Base	Arsenic	Mallard	17.5%	0.0000055%	0.2%	68.2%	0.0%	0.0%	14.1%	100.0%
Project-Base	Barium	Mallard	12.0%	0.0000038%	0.2%	75.0%	0.0%	0.0%	12.8%	100.0%
Project-Base	Beryllium	Mallard	2.9%	0.0000009%	0.1%	93.3%	0.0%	0.0%	3.8%	100.0%
Project-Base	Chromium	Mallard	21.2%	0.0000066%	0.0%	34.8%	0.0%	0.0%	44.0%	100.0%
Project-Base	Cobalt	Mallard	76.3%	0.0000239%	0.1%	22.7%	0.0%	0.0%	0.9%	100.0%
Project-Base	Iron	Mallard	73.8%	0.0000231%	0.0%	12.5%	0.0%	0.0%	13.7%	100.0%
Project-Base	Lead	Mallard	9.9%	0.0000031%	0.1%	42.7%	0.0%	0.0%	47.3%	100.0%
Project-Base	Manganese	Mallard	2.1%	0.0000007%	0.1%	6.7%	0.0%	0.0%	91.1%	100.0%
Project-Base	Mercury	Mallard	0.2%	0.0000001%	0.0%	10.2%	0.0%	0.0%	89.6%	100.0%
Project-Base	Molybdenum	Mallard	0.9%	0.0000003%	0.1%	9.0%	0.0%	0.0%	90.0%	100.0%
Project-Base	Selenium	Mallard	1.7%	0.0000005%	0.2%	32.4%	0.0%	0.0%	65.8%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Project-Base	Arsenic	Grouse	24.9%	0.0000078%	0.4%	47.8%	0.0%	0.0%	26.9%	100.0%
Project-Base	Barium	Grouse	38.8%	0.0000121%	0.2%	51.5%	0.0%	0.0%	9.5%	100.0%
Project-Base	Beryllium	Grouse	12.7%	0.0000040%	0.2%	82.0%	0.0%	0.0%	5.1%	100.0%
Project-Base	Chromium	Grouse	37.0%	0.0000116%	0.0%	32.1%	0.0%	0.0%	30.9%	100.0%
Project-Base	Cobalt	Grouse	45.7%	0.0000143%	2.4%	33.6%	0.0%	0.0%	18.3%	100.0%
Project-Base	Iron	Grouse	43.8%	0.0000137%	0.0%	31.7%	0.0%	0.0%	24.5%	100.0%
Project-Base	Lead	Grouse	29.6%	0.0000092%	0.0%	70.4%	0.0%	0.0%	0.0%	100.0%
Project-Base	Manganese	Grouse	9.6%	0.0000030%	0.1%	9.8%	0.0%	0.0%	80.5%	100.0%
Project-Base	Mercury	Grouse	1.5%	0.0000005%	0.0%	98.5%	0.0%	0.0%	0.0%	100.0%
Project-Base	Molybdenum	Grouse	2.7%	0.0000008%	0.1%	4.5%	0.0%	0.0%	92.7%	100.0%
Project-Base	Selenium	Grouse	1.7%	0.0000005%	0.2%	3.6%	0.0%	0.0%	94.5%	100.0%
Project-Base	Arsenic	Hare	26.7%	0.0000084%	0.3%	51.3%	0.0%	0.0%	21.7%	100.0%
Project-Base	Barium	Hare	42.9%	0.0000134%	0.0%	57.1%	0.0%	0.0%	0.0%	100.0%
Project-Base	Beryllium	Hare	12.8%	0.0000040%	0.1%	82.9%	0.0%	0.0%	4.2%	100.0%
Project-Base	Chromium	Hare	39.3%	0.0000123%	0.0%	34.2%	0.0%	0.0%	26.5%	100.0%
Project-Base	Cobalt	Hare	49.7%	0.0000155%	1.6%	36.5%	0.0%	0.0%	12.2%	100.0%
Project-Base	Iron	Hare	53.7%	0.0000168%	0.0%	38.8%	0.0%	0.0%	7.5%	100.0%
Project-Base	Lead	Hare	29.6%	0.0000092%	0.0%	70.4%	0.0%	0.0%	0.0%	100.0%
Project-Base	Manganese	Hare	49.4%	0.0000155%	0.0%	50.6%	0.0%	0.0%	0.0%	100.0%
Project-Base	Mercury	Hare	1.5%	0.0000005%	0.0%	98.5%	0.0%	0.0%	0.0%	100.0%
Project-Base	Molybdenum	Hare	4.9%	0.0000015%	0.1%	8.3%	0.0%	0.0%	86.8%	100.0%
Project-Base	Selenium	Hare	2.2%	0.0000007%	0.2%	4.8%	0.0%	0.0%	92.8%	100.0%
Closure-Base	Arsenic	Moose	21.3%	0.0000067%	0.3%	56.2%	0.0%	0.0%	22.1%	100.0%
Closure-Base	Barium	Moose	17.8%	0.0000056%	0.1%	73.6%	0.0%	0.0%	8.5%	100.0%
Closure-Base	Beryllium	Moose	5.4%	0.0000017%	0.1%	89.6%	0.0%	0.0%	4.9%	100.0%
Closure-Base	Chromium	Moose	23.1%	0.0000072%	0.0%	33.5%	0.0%	0.0%	43.3%	100.0%
Closure-Base	Cobalt	Moose	66.2%	0.0000207%	0.9%	26.3%	0.0%	0.0%	6.7%	100.0%
Closure-Base	Iron	Moose	64.8%	0.0000203%	0.0%	21.6%	0.0%	0.0%	13.6%	100.0%
Closure-Base	Lead	Moose	19.7%	0.0000062%	0.0%	64.3%	0.0%	0.0%	16.0%	100.0%
Closure-Base	Manganese	Moose	13.2%	0.0000041%	0.1%	28.4%	0.0%	0.0%	58.4%	100.0%
Closure-Base	Mercury	Moose	0.2%	0.0000001%	0.0%	10.3%	0.0%	0.0%	89.5%	100.0%
Closure-Base	Molybdenum	Moose	2.5%	0.0000008%	0.1%	6.5%	0.0%	0.0%	91.0%	100.0%
Closure-Base	Selenium	Moose	1.5%	0.0000005%	0.2%	16.8%	0.0%	0.0%	81.5%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Closure-Base	Arsenic	Mallard	17.5%	0.0000055%	0.2%	68.2%	0.0%	0.0%	14.1%	100.0%
Closure-Base	Barium	Mallard	12.0%	0.0000038%	0.2%	75.0%	0.0%	0.0%	12.8%	100.0%
Closure-Base	Beryllium	Mallard	2.9%	0.0000009%	0.1%	93.3%	0.0%	0.0%	3.8%	100.0%
Closure-Base	Chromium	Mallard	21.2%	0.0000066%	0.0%	34.8%	0.0%	0.0%	44.0%	100.0%
Closure-Base	Cobalt	Mallard	76.3%	0.0000239%	0.1%	22.7%	0.0%	0.0%	0.9%	100.0%
Closure-Base	Iron	Mallard	73.8%	0.0000231%	0.0%	12.5%	0.0%	0.0%	13.7%	100.0%
Closure-Base	Lead	Mallard	9.9%	0.0000031%	0.1%	42.7%	0.0%	0.0%	47.3%	100.0%
Closure-Base	Manganese	Mallard	2.1%	0.0000007%	0.1%	6.7%	0.0%	0.0%	91.1%	100.0%
Closure-Base	Mercury	Mallard	0.2%	0.0000001%	0.0%	10.2%	0.0%	0.0%	89.6%	100.0%
Closure-Base	Molybdenum	Mallard	0.9%	0.0000003%	0.1%	9.0%	0.0%	0.0%	90.0%	100.0%
Closure-Base	Selenium	Mallard	1.7%	0.0000005%	0.2%	32.4%	0.0%	0.0%	65.8%	100.0%
Closure-Base	Arsenic	Grouse	24.9%	0.0000078%	0.4%	47.8%	0.0%	0.0%	26.9%	100.0%
Closure-Base	Barium	Grouse	38.8%	0.0000121%	0.2%	51.5%	0.0%	0.0%	9.5%	100.0%
Closure-Base	Beryllium	Grouse	12.7%	0.0000040%	0.2%	82.0%	0.0%	0.0%	5.1%	100.0%
Closure-Base	Chromium	Grouse	37.0%	0.0000116%	0.0%	32.1%	0.0%	0.0%	30.9%	100.0%
Closure-Base	Cobalt	Grouse	45.7%	0.0000143%	2.4%	33.6%	0.0%	0.0%	18.3%	100.0%
Closure-Base	Iron	Grouse	43.8%	0.0000137%	0.0%	31.7%	0.0%	0.0%	24.5%	100.0%
Closure-Base	Lead	Grouse	29.6%	0.0000092%	0.0%	70.4%	0.0%	0.0%	0.0%	100.0%
Closure-Base	Manganese	Grouse	9.6%	0.0000030%	0.1%	9.8%	0.0%	0.0%	80.5%	100.0%
Closure-Base	Mercury	Grouse	1.5%	0.0000005%	0.0%	98.5%	0.0%	0.0%	0.0%	100.0%
Closure-Base	Molybdenum	Grouse	2.7%	0.0000008%	0.1%	4.5%	0.0%	0.0%	92.7%	100.0%
Closure-Base	Selenium	Grouse	1.7%	0.0000005%	0.2%	3.6%	0.0%	0.0%	94.5%	100.0%
Closure-Base	Arsenic	Hare	26.7%	0.0000084%	0.3%	51.3%	0.0%	0.0%	21.7%	100.0%
Closure-Base	Barium	Hare	42.9%	0.0000134%	0.0%	57.1%	0.0%	0.0%	0.0%	100.0%
Closure-Base	Beryllium	Hare	12.8%	0.0000040%	0.1%	82.9%	0.0%	0.0%	4.2%	100.0%
Closure-Base	Chromium	Hare	39.3%	0.0000123%	0.0%	34.2%	0.0%	0.0%	26.5%	100.0%
Closure-Base	Cobalt	Hare	49.7%	0.0000155%	1.6%	36.5%	0.0%	0.0%	12.2%	100.0%
Closure-Base	Iron	Hare	53.7%	0.0000168%	0.0%	38.8%	0.0%	0.0%	7.5%	100.0%
Closure-Base	Lead	Hare	29.6%	0.0000092%	0.0%	70.4%	0.0%	0.0%	0.0%	100.0%
Closure-Base	Manganese	Hare	49.4%	0.0000155%	0.0%	50.6%	0.0%	0.0%	0.0%	100.0%
Closure-Base	Mercury	Hare	1.5%	0.0000005%	0.0%	98.5%	0.0%	0.0%	0.0%	100.0%
Closure-Base	Molybdenum	Hare	4.9%	0.0000015%	0.1%	8.3%	0.0%	0.0%	86.8%	100.0%
Closure-Base	Selenium	Hare	2.2%	0.0000007%	0.2%	4.8%	0.0%	0.0%	92.8%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Post Closure-Base	Arsenic	Moose	21.3%	0.0000067%	0.3%	56.2%	0.0%	0.0%	22.1%	100.0%
Post Closure-Base	Barium	Moose	17.8%	0.0000056%	0.1%	73.6%	0.0%	0.0%	8.5%	100.0%
Post Closure-Base	Beryllium	Moose	5.4%	0.0000017%	0.1%	89.6%	0.0%	0.0%	4.9%	100.0%
Post Closure-Base	Chromium	Moose	23.1%	0.0000072%	0.0%	33.5%	0.0%	0.0%	43.3%	100.0%
Post Closure-Base	Cobalt	Moose	66.2%	0.0000207%	0.9%	26.3%	0.0%	0.0%	6.7%	100.0%
Post Closure-Base	Iron	Moose	64.8%	0.0000203%	0.0%	21.6%	0.0%	0.0%	13.6%	100.0%
Post Closure-Base	Lead	Moose	19.7%	0.0000062%	0.0%	64.3%	0.0%	0.0%	16.0%	100.0%
Post Closure-Base	Manganese	Moose	13.2%	0.0000041%	0.1%	28.4%	0.0%	0.0%	58.4%	100.0%
Post Closure-Base	Mercury	Moose	0.2%	0.0000001%	0.0%	10.3%	0.0%	0.0%	89.5%	100.0%
Post Closure-Base	Molybdenum	Moose	2.5%	0.0000008%	0.1%	6.5%	0.0%	0.0%	91.0%	100.0%
Post Closure-Base	Selenium	Moose	1.5%	0.0000005%	0.2%	16.8%	0.0%	0.0%	81.5%	100.0%
Post Closure-Base	Arsenic	Mallard	17.5%	0.0000055%	0.2%	68.2%	0.0%	0.0%	14.1%	100.0%
Post Closure-Base	Barium	Mallard	12.0%	0.0000038%	0.2%	75.0%	0.0%	0.0%	12.8%	100.0%
Post Closure-Base	Beryllium	Mallard	2.9%	0.0000009%	0.1%	93.3%	0.0%	0.0%	3.8%	100.0%
Post Closure-Base	Chromium	Mallard	21.2%	0.0000066%	0.0%	34.8%	0.0%	0.0%	44.0%	100.0%
Post Closure-Base	Cobalt	Mallard	76.3%	0.0000239%	0.1%	22.7%	0.0%	0.0%	0.9%	100.0%
Post Closure-Base	Iron	Mallard	73.8%	0.0000231%	0.0%	12.5%	0.0%	0.0%	13.7%	100.0%
Post Closure-Base	Lead	Mallard	9.9%	0.0000031%	0.1%	42.7%	0.0%	0.0%	47.3%	100.0%
Post Closure-Base	Manganese	Mallard	2.1%	0.0000007%	0.1%	6.7%	0.0%	0.0%	91.1%	100.0%
Post Closure-Base	Mercury	Mallard	0.2%	0.0000001%	0.0%	10.2%	0.0%	0.0%	89.6%	100.0%
Post Closure-Base	Molybdenum	Mallard	0.9%	0.0000003%	0.1%	9.0%	0.0%	0.0%	90.0%	100.0%
Post Closure-Base	Selenium	Mallard	1.7%	0.0000005%	0.2%	32.4%	0.0%	0.0%	65.8%	100.0%
Post Closure-Base	Arsenic	Grouse	24.9%	0.0000078%	0.4%	47.8%	0.0%	0.0%	26.9%	100.0%
Post Closure-Base	Barium	Grouse	38.8%	0.0000121%	0.2%	51.5%	0.0%	0.0%	9.5%	100.0%
Post Closure-Base	Beryllium	Grouse	12.7%	0.0000040%	0.2%	82.0%	0.0%	0.0%	5.1%	100.0%
Post Closure-Base	Chromium	Grouse	37.0%	0.0000116%	0.0%	32.1%	0.0%	0.0%	30.9%	100.0%
Post Closure-Base	Cobalt	Grouse	45.7%	0.0000143%	2.4%	33.6%	0.0%	0.0%	18.3%	100.0%
Post Closure-Base	Iron	Grouse	43.8%	0.0000137%	0.0%	31.7%	0.0%	0.0%	24.5%	100.0%
Post Closure-Base	Lead	Grouse	29.6%	0.0000092%	0.0%	70.4%	0.0%	0.0%	0.0%	100.0%
Post Closure-Base	Manganese	Grouse	9.6%	0.0000030%	0.1%	9.8%	0.0%	0.0%	80.5%	100.0%
Post Closure-Base	Mercury	Grouse	1.5%	0.0000005%	0.0%	98.5%	0.0%	0.0%	0.0%	100.0%
Post Closure-Base	Molybdenum	Grouse	2.7%	0.0000008%	0.1%	4.5%	0.0%	0.0%	92.7%	100.0%
Post Closure-Base	Selenium	Grouse	1.7%	0.0000005%	0.2%	3.6%	0.0%	0.0%	94.5%	100.0%

Table 2-3: Wildlife Estimated Daily Intakes as a Percentage of Total Exposure

			Soil	Dust	Surface_water	Browse	A_inverts	T_inverts	Aq_plants	Total
			SIR	AIR	WIR	Soil	Surface Water	Soil	Surface Water	Total
Case	Chemical	Receptor	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]	[mg/day]
Post Closure-Base	Arsenic	Hare	26.7%	0.0000084%	0.3%	51.3%	0.0%	0.0%	21.7%	100.0%
Post Closure-Base	Barium	Hare	42.9%	0.0000134%	0.0%	57.1%	0.0%	0.0%	0.0%	100.0%
Post Closure-Base	Beryllium	Hare	12.8%	0.0000040%	0.1%	82.9%	0.0%	0.0%	4.2%	100.0%
Post Closure-Base	Chromium	Hare	39.3%	0.0000123%	0.0%	34.2%	0.0%	0.0%	26.5%	100.0%
Post Closure-Base	Cobalt	Hare	49.7%	0.0000155%	1.6%	36.5%	0.0%	0.0%	12.2%	100.0%
Post Closure-Base	Iron	Hare	53.7%	0.0000168%	0.0%	38.8%	0.0%	0.0%	7.5%	100.0%
Post Closure-Base	Lead	Hare	29.6%	0.0000092%	0.0%	70.4%	0.0%	0.0%	0.0%	100.0%
Post Closure-Base	Manganese	Hare	49.4%	0.0000155%	0.0%	50.6%	0.0%	0.0%	0.0%	100.0%
Post Closure-Base	Mercury	Hare	1.5%	0.0000005%	0.0%	98.5%	0.0%	0.0%	0.0%	100.0%
Post Closure-Base	Molybdenum	Hare	4.9%	0.0000015%	0.1%	8.3%	0.0%	0.0%	86.8%	100.0%
Post Closure-Base	Selenium	Hare	2.2%	0.0000007%	0.2%	4.8%	0.0%	0.0%	92.8%	100.0%

Table 2-4: Summary of Game Meat Tissue Concentrations by Assessment Case [mg/kg-WW]

Receptor	Chemical	Base	Project	Closure	Post Closure	Project-Base	Closure-Base	Post Closure-Base
Moose	Arsenic	3.00E-03	4.28E-03	4.07E-03	4.46E-03	1.56E-03	1.46E-03	1.85E-03
Moose	Barium	2.44E-02	2.88E-02	2.88E-02	2.88E-02	5.70E-03	5.15E-03	5.65E-03
Moose	Beryllium	1.62E-03	1.87E-03	1.85E-03	1.85E-03	4.24E-04	4.20E-04	4.15E-04
Moose	Chromium	7.00E-02	8.50E-02	8.22E-02	7.94E-02	1.30E-02	1.22E-02	9.39E-03
Moose	Cobalt	1.08E-02	1.61E-02	1.57E-02	1.53E-02	5.29E-03	4.87E-03	4.53E-03
Moose	Iron	3.48E+01	5.63E+01	5.49E+01	5.60E+01	2.47E+01	2.01E+01	2.18E+01
Moose	Lead	3.00E-02	2.19E-02	2.17E-02	2.14E-02	4.56E-03	4.56E-03	4.56E-03
Moose	Manganese	4.30E-01	1.30E-01	1.11E-01	1.07E-01	8.35E-02	1.62E-02	5.80E-02
Moose	Mercury	1.00E-02	9.93E-03	9.94E-03	9.84E-03	5.97E-05	5.97E-05	5.97E-05
Moose	Molybdenum	1.00E-02	3.29E-02	2.48E-02	3.85E-02	2.72E-02	1.48E-02	3.11E-02
Moose	Selenium	1.50E-01	3.29E-01	2.62E-01	5.10E-01	1.46E-01	1.11E-01	3.59E-01
Hare	Arsenic	4.00E-03	5.60E-03	5.59E-03	5.60E-03	2.06E-03	2.05E-03	2.06E-03
Hare	Barium	3.13E-04	4.17E-04	4.17E-04	4.17E-04	1.04E-04	1.04E-04	1.04E-04
Hare	Beryllium	1.98E-05	2.35E-05	2.35E-05	2.35E-05	5.90E-06	5.90E-06	5.89E-06
Hare	Chromium	1.30E-01	1.64E-01	1.64E-01	1.64E-01	3.42E-02	3.42E-02	3.42E-02
Hare	Cobalt	1.28E-02	1.71E-02	1.71E-02	1.71E-02	4.37E-03	4.35E-03	4.34E-03
Hare	Iron	4.17E+01	6.29E+01	6.29E+01	6.29E+01	2.12E+01	2.12E+01	2.12E+01
Hare	Lead	2.00E-02	2.46E-02	2.46E-02	2.46E-02	6.51E-03	6.51E-03	6.51E-03
Hare	Manganese	2.84E+00	4.39E+00	4.39E+00	4.39E+00	1.56E+00	1.56E+00	1.56E+00
Hare	Mercury	1.00E-02	1.01E-02	1.01E-02	1.01E-02	5.74E-04	5.74E-04	5.74E-04
Hare	Molybdenum	2.00E-02	7.39E-02	7.38E-02	7.40E-02	5.40E-02	5.38E-02	5.40E-02
Hare	Selenium	2.30E-01	2.85E-01	2.85E-01	2.86E-01	4.85E-02	4.83E-02	4.96E-02
Grouse	Arsenic	4.00E-03	4.94E-03	4.94E-03	4.94E-03	1.51E-03	1.51E-03	1.51E-03
Grouse	Barium	2.12E-04	2.43E-04	2.43E-04	2.43E-04	3.11E-05	3.11E-05	3.11E-05
Grouse	Beryllium	8.73E-06	9.90E-06	9.90E-06	9.90E-06	1.97E-06	1.97E-06	1.97E-06
Grouse	Chromium	1.10E-01	1.28E-01	1.28E-01	1.28E-01	5.43E-02	5.43E-02	5.43E-02
Grouse	Cobalt	3.18E-03	3.97E-03	3.97E-03	3.97E-03	7.93E-04	7.89E-04	7.86E-04
Grouse	Iron	4.37E+01	6.65E+01	6.65E+01	6.65E+01	2.28E+01	2.28E+01	2.28E+01
Grouse	Lead	1.49E-05	1.65E-05	1.65E-05	1.65E-05	2.98E-06	2.98E-06	2.98E-06
Grouse	Manganese	1.50E+00	2.09E+00	2.09E+00	2.09E+00	6.08E-01	6.07E-01	6.07E-01
Grouse	Mercury	2.00E-03	2.01E-03	2.01E-03	2.01E-03	5.56E-04	5.56E-04	5.56E-04
Grouse	Molybdenum	2.00E-02	5.01E-02	5.00E-02	5.01E-02	3.01E-02	3.00E-02	3.01E-02
Grouse	Selenium	2.50E-01	2.89E-01	2.88E-01	2.89E-01	3.34E-02	3.33E-02	3.41E-02

Table 2-4: Summary of Game Meat Tissue Concentrations by Assessment Case [mg/kg-WW]

Receptor	Chemical	Base	Project	Closure	Post Closure	Project-Base	Closure-Base	Post Closure-Base
Mallard	Arsenic	8.00E-02	1.54E-01	1.32E-01	1.72E-01	6.46E-02	5.40E-02	9.37E-02
Mallard	Barium	2.49E-04	2.55E-04	2.54E-04	2.53E-04	5.73E-05	3.42E-05	5.51E-05
Mallard	Beryllium	4.17E-06	5.91E-06	5.55E-06	5.43E-06	1.59E-06	1.46E-06	1.34E-06
Mallard	Chromium	6.00E-02	7.24E-02	6.78E-02	6.32E-02	1.09E-02	9.67E-03	5.08E-03
Mallard	Cobalt	4.67E-02	7.47E-02	6.82E-02	6.31E-02	2.79E-02	2.16E-02	1.65E-02
Mallard	Iron	9.28E+01	1.38E+02	1.28E+02	1.35E+02	6.67E+01	3.50E+01	4.65E+01
Mallard	Lead	8.00E-02	2.33E-02	2.22E-02	2.05E-02	1.01E-03	1.01E-03	1.01E-03
Mallard	Manganese	1.14E+00	2.36E-01	1.83E-01	1.71E-01	2.02E-01	7.58E-03	1.28E-01
Mallard	Mercury	1.50E-01	1.49E-01	1.49E-01	1.47E-01	2.48E-04	2.48E-04	2.48E-04
Mallard	Molybdenum	5.00E-02	1.67E-01	1.22E-01	1.97E-01	1.40E-01	7.25E-02	1.62E-01
Mallard	Selenium	1.35E+00	3.61E+00	2.73E+00	6.02E+00	1.84E+00	1.38E+00	4.67E+00

Table 2-5 Input Parameters Used for Predicting Soil Concetrations from Deposition Based on Project and Site Characteristics		
Variable	Value	Reference / Comment
Time	26	t; Assumed equal to duration of project operations (26)
Surface Soil Mixing Depth [metres] = Depth1	0.02	Z1; US EPA 2005
Soil Mixing Depth for Plants and Invertebrates[metres] = Depth2	0.2	Z2; US EPA 2005
Soil Bulk Density [kg/m3]	1500	BD; US EPA 2005

Table 2-6: Summary of Soil Lost Constants - Kp [year-1]

Chemical	Value	Half-life [days]	Reference / Comment
Arsenic	0.026659507	9490	Assumed life of project
Barium	0.026659507	9490	Assumed life of project
Beryllium	0.026659507	9490	Assumed life of project
Chromium	0.026659507	9490	Assumed life of project
Cobalt	0.026659507	9490	Assumed life of project
Iron	0.026659507	9490	Assumed life of project
Lead	0.026659507	9490	Assumed life of project
Manganese	0.026659507	9490	Assumed life of project
Mercury	0.026659507	9490	Assumed life of project
Molybdenum	0.026659507	9490	Assumed life of project
Selenium	0.026659507	9490	Assumed life of project

Table 2-7: Bioaccumulation Models Used to Predict Tisse Concentrations

Media	Chemical	Slope	Intercept	BAF DW	Model	Media	Units	Comment	Reference
Browse	Arsenic	0.564	-1.992	-	LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
Browse	Barium	-	-	0.156	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
Browse	Beryllium	0.7345	-0.5361	-	LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		US EPA 2003
Browse	Chromium	-	-	0.041	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
Browse	Cobalt	-	-	0.00745	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
Browse	Iron	-	-	0.00425	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
Browse	Lead	0.561	-1.328	-	LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
Browse	Manganese	-	-	0.0792	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
Browse	Mercury	0.544	-0.996	-	LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
Browse	Molybdenum	-	-	0.25	BAF	Soil	dry weight vegetation / dry weight soil		Baes et al 1984
Browse	Selenium	1.104	-0.678		LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		BJC 1998
A_inverts	Arsenic	-	-	4.37E+02	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)		US EPA 1999
A_inverts	Barium	-	-	1.20E+03	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 83.3% moisture	US EPA 1999
A_inverts	Beryllium	-	-	2.69E+02	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 83.3% moisture	US EPA 1999
A_inverts	Chromium	-	-	1.80E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 83.3% moisture	US EPA 1999
A_inverts	Cobalt	-	-	1.68E+02	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available used nickel as surrogate. Converted to dry weight using 83.3% moisture.	US EPA 1999
A_inverts	Iron	-	-	1.80E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available; used chromium as surrogate. Converted to dry weight using 83.3% moisture.	US EPA 1999
A_inverts	Lead	-	-	3.03E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 83.3% moisture	US EPA 1999
A_inverts	Manganese	-	-	1.80E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available; used chromium as surrogate. Converted to dry weight using 83.3% moisture.	US EPA 1999
A_inverts	Mercury	-	-	3.29E+05	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available. Assumed all mercury is methyl mercury; conv	US EPA 1999
A_inverts	Molybdenum	-	-	1.80E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available; used chromium as surrogate. Converted to dry weight using 83.3% moisture.	US EPA 1999
A_inverts	Selenium	-	-	7556.89	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 83.3% moisture	US EPA 1999
Aq_plants	Arsenic	-	-	854.23	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Barium	-	-	7.58E+02	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Beryllium	-	-	4.11E+02	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Chromium	-	-	1.28E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Cobalt	-	-	9.62E+01	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available; used nickel as surrogate. Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Iron	-	-	1.28E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available; used chromium as surrogate. Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Lead	-	-	4.97E+03	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Manganese	-	-	1.28E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available; used chromium as surrogate. Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Mercury	-	-	7.22E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Molybdenum	-	-	1.28E+04	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Data not available; used chromium as surrogate. Converted to dry weight using 65.7% moisture.	US EPA 1999
Aq_plants	Selenium	-	-	5.38E+03	BAF	Surface Water	(mg COPC / kg dry tissue) / (mg dissolved COPC / L water)	Converted to dry weight using 65.7% moisture.	US EPA 1999
T_inverts	Arsenic	0.71	-1.42	1.10E-01	LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		Sample et al. 1998
T_inverts	Barium	-	-	1.32E+00	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)	Data not available. Used arithmetic mean of inorganics with data, as done in the reference. Converted to dry weight using 83.3% moisture as stated in source	US EPA 1999
T_inverts	Beryllium	-	-	1.32E+00	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)	Data not available. Used arithmetic mean of inorganics with data, as done in the reference. Converted to dry weight using 83.3% moisture as stated in source	US EPA 1999
T_inverts	Chromium	-6.70E-02	2.48E+00	1.00E-02	LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		Sample et al. 1998
T_inverts	Cobalt	-	-	1.22E-01	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		Sample et al. 1998
T_inverts	Iron	-	-	3.60E-02	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		Sample et al. 1998
T_inverts	Lead	8.07E-01	-2.18E-01	3.00E-02	LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		Sample et al. 1998
T_inverts	Manganese	6.82E-01	-8.09E-01		LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		Sample et al. 1998
T_inverts	Mercury	1.18E-01	-6.84E-01		LN	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)	Linear relationship did not have a significant correlation with available data.	Sample et al. 1998

Table 2-7: Bioaccumulation Models Used to Predict Tisse Concentrations

Media	Chemical	Slope	Intercept	BAF DW	Model	Media	Units	Comment	Reference
T_inverts	Molybdenum	-	-	9.53E-01	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)		Sample et al. 1998
T_inverts	Selenium	-	-	1.32E+00	BAF	Soil	(mg COPC/kg dry tissue) / (mg/kg dry soil)	Data not available. Used arithmetic mean of inorganics with data, as done in the reference. Converted to dry weight using 83.3% moisture as stated in source	US EPA 1999

Table 2-8: Wildlife Exposure Variables

Receptor	Parameter	Value	Units	Reference / Comment	Description
Moose	SIR	0.16	kg soil/day	Calculated as FIR x P_SIR	Soil Ingestion Rate
Moose	P_SIR	2%	%	FCSAP 2012	percent SIR
Moose	BW	400.00	kg	FCSAP 2012	Body Weight
Moose	WIR	20.00	L/day	FCSAP 2012	Water Ingestion Rate
Moose	FIR	8.00	kg dry food/day	FCSAP 2012	Food Ingestion Rate
Moose	AIR	65.87	m3/day	US EPA (1993); Calculated based on allometric equation 3-20 for mammals	Air inhalation rate / ingestion of dust
Hare	SIR	4.91E-03	kg soil/day	Calculated as FIR x P_SIR	Soil Ingestion Rate
Hare	P_SIR	6%	%	FCSAP 2012	percent SIR
Hare	BW	1.30	kg	FCSAP 2012	Body Weight
Hare	WIR	0.13	L/day	FCSAP 2012	Water Ingestion Rate
Hare	FIR	7.80E-02	kg dry food/day	FCSAP 2012	Food Ingestion Rate
Hare	AIR	0.67	m3/day	US EPA (1993); Calculated based on allometric equation 3-20 for mammals	Air inhalation rate / ingestion of dust
Grouse	SIR	6.62E-04	kg soil/day	FCSAP 2012	Soil Ingestion Rate
Grouse	P_SIR	2%	%	FCSAP 2012	percent SIR
Grouse	BW	0.55	kg	FCSAP 2012	Body Weight
Grouse	WIR	0.04	L/day	FCSAP 2012	Water Ingestion Rate
Grouse	FIR	3.31E-02	kg dry food/day	FCSAP 2012	Food Ingestion Rate
Grouse	AIR	0.26	m3/day	US EPA (1993); Calculated based on allometric equation 3-20 for birds	Air inhalation rate / ingestion of dust
Mallard	SIR	0.0020	kg soil/day	Calculated as FIR x P_SIR	Soil Ingestion Rate
Mallard	P_SIR	3%	%	FCSAP 2012	percent SIR
Mallard	BW	1.20	kg	FCSAP 2012	Body Weight
Mallard	WIR	0.07	L/day	FCSAP 2012	Water Ingestion Rate
Mallard	FIR	0.06	kg dry food//day	FCSAP 2012	Food Ingestion Rate
Mallard	AIR	0.47	m3/day	US EPA (1993); Calculated based on allometric equation 3-20 for birds	Air inhalation rate / ingestion of dust

Table 2-9: Receptor Dietary Composition (Media % of Diet)

Receptor	Media	Value	Reference
Moose	Browse	80%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Moose	Aq_plants	20%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Moose	A_Inverts	0%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Moose	T_inverts	0%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Hare	Browse	100%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Hare	Aq_plants	0%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Hare	A_Inverts	0%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Hare	T_inverts	0%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Grouse	Browse	85%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Grouse	Aq_plants	0%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Grouse	A_Inverts	0%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Grouse	T_inverts	15%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Mallard	Browse	5%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Mallard	Aq_plants	50%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Mallard	A_Inverts	40%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf
Mallard	T_inverts	5%	ERA Guidance 2012 Module 3 Wildlife Receptor Characteristics.pdf

Table 2-10: Measured Baseline Game Meat Concentrations from Chan et al (2021)

Receptor	Chemical	Value	Unit	Reference / Comment
Mallard	Arsenic	8.00E-02	µg/g wet weight	
Mallard	Barium	NV	µg/g wet weight	
Mallard	Beryllium	NV	µg/g wet weight	
Mallard	Chromium	6.00E-02	µg/g wet weight	
Mallard	Cobalt	4.67E-02	µg/g wet weight	
Mallard	Iron	9.28E+01	µg/g wet weight	
Mallard	Lead	8.00E-02	µg/g wet weight	
Mallard	Manganese	1.14E+00	µg/g wet weight	
Mallard	Mercury	1.50E-01	µg/g wet weight	
Mallard	Moisture	5.69E+01	%	
Mallard	Molybdenum	5.00E-02	µg/g wet weight	
Mallard	Selenium	1.35E+00	µg/g wet weight	
Moose	Arsenic	3.00E-03	µg/g wet weight	
Moose	Barium	NV	µg/g wet weight	
Moose	Beryllium	NV	µg/g wet weight	
Moose	Chromium	7.00E-02	µg/g wet weight	
Moose	Cobalt	1.08E-02	µg/g wet weight	
Moose	Iron	3.48E+01	µg/g wet weight	
Moose	Lead	3.00E-02	µg/g wet weight	
Moose	Manganese	4.30E-01	µg/g wet weight	
Moose	Mercury	1.00E-02	µg/g wet weight	
Moose	Moisture	7.21E+01	%	
Moose	Molybdenum	1.00E-02	µg/g wet weight	
Moose	Selenium	1.50E-01	µg/g wet weight	
Grouse	Arsenic	4.00E-03	µg/g wet weight	
Grouse	Barium	NV	µg/g wet weight	
Grouse	Beryllium	NV	µg/g wet weight	
Grouse	Chromium	1.10E-01	µg/g wet weight	
Grouse	Cobalt	3.18E-03	µg/g wet weight	
Grouse	Iron	4.37E+01	µg/g wet weight	

Table 2-10: Measured Baseline Game Meat Concentrations from Chan et al (2021)

Receptor	Chemical	Value	Unit	Reference / Comment
Grouse	Lead	1.30E+00	µg/g wet weight	Chan et al. 2019; Likely impacted with lead ammunition
Grouse	Manganese	1.50E+00	µg/g wet weight	
Grouse	Mercury	2.00E-03	µg/g wet weight	
Grouse	Moisture	7.01E+01	%	
Grouse	Molybdenum	2.00E-02	µg/g wet weight	
Grouse	Selenium	2.50E-01	µg/g wet weight	
Hare	Arsenic	4.00E-03	µg/g wet weight	
Hare	Barium	NV	µg/g wet weight	
Hare	Beryllium	NV	µg/g wet weight	
Hare	Chromium	1.30E-01	µg/g wet weight	
Hare	Cobalt	1.28E-02	µg/g wet weight	
Hare	Iron	4.17E+01	µg/g wet weight	
Hare	Lead	2.00E-02	µg/g wet weight	
Hare	Manganese	2.84E+00	µg/g wet weight	
Hare	Mercury	1.00E-02	µg/g wet weight	
Hare	Moisture	7.17E+01	%	
Hare	Molybdenum	2.00E-02	µg/g wet weight	
Hare	Selenium	2.30E-01	µg/g wet weight	

NV = no value

Table 2-11: Biotransfer Factors Used to Predict Game Meat Concentrations (day/ kg WW)

Receptor	Chemical	Site Specific Value	Literature Value	Literature BTF Type	Literature Reference / Comment
Grouse	Arsenic	4.25E-01	0.002	BaBEEF	USEPA ChemData2005.XLS
Grouse	Barium	1.50E-04	0.00015	BaBEEF	USEPA ChemData2005.XLS
Grouse	Beryllium	1.00E-03	0.001	BaBEEF	USEPA ChemData2005.XLS
Grouse	Chromium	6.37E-01	0.0055	BaBEEF	USEPA ChemData2005.XLS
Grouse	Cobalt	1.79E-01	0.02	BaBEEF	BAES et al 1984.pdf
Grouse	Iron	5.65E-01	0.02	BaBEEF	BAES et al 1984.pdf
Grouse	Lead	3.00E-04	0.0003	BaBEEF	Assumed literature-based value as grouse likely impacted by lead shot (Chan et al 2019); USEPA ChemData2005.XLS
Grouse	Manganese	3.20E-01	0.0004	BaBEEF	BAES et al 1984.pdf
Grouse	Mercury	5.22E-01	0.25	BaBEEF	BAES et al 1984.pdf
Grouse	Molybdenum	1.70E+00	0.006	BaBEEF	BAES et al 1984.pdf
Grouse	Selenium	2.44E+01	1.12625	Bapoult	USEPA ChemData2005.XLS
Hare	Arsenic	1.48E-01	0.002	BaBEEF	USEPA ChemData2005.XLS
Hare	Barium	1.50E-04	0.00015	BaBEEF	USEPA ChemData2005.XLS
Hare	Beryllium	1.00E-03	0.001	BaBEEF	USEPA ChemData2005.XLS
Hare	Chromium	2.27E-01	0.0055	BaBEEF	USEPA ChemData2005.XLS
Hare	Cobalt	1.94E-01	0.02	BaBEEF	BAES et al 1984.pdf
Hare	Iron	9.88E-02	0.02	BaBEEF	BAES et al 1984.pdf
Hare	Lead	1.93E-01	0.0003	BaBEEF	USEPA ChemData2005.XLS
Hare	Manganese	1.70E-01	0.0004	BaBEEF	BAES et al 1984.pdf
Hare	Mercury	1.70E+00	0.25	BaBEEF	BAES et al 1984.pdf
Hare	Molybdenum	8.63E-01	0.006	BaBEEF	BAES et al 1984.pdf
Hare	Selenium	1.10E+01	0.002265	BaBEEF	USEPA ChemData2005.XLS
Mallard	Arsenic	5.94E+00	0.002	BaBEEF	USEPA ChemData2005.XLS
Mallard	Barium	1.50E-04	0.00015	BaBEEF	USEPA ChemData2005.XLS
Mallard	Beryllium	1.00E-03	0.001	BaBEEF	USEPA ChemData2005.XLS
Mallard	Chromium	5.42E-02	0.0055	BaBEEF	USEPA ChemData2005.XLS
Mallard	Cobalt	1.59E+00	0.02	BaBEEF	BAES et al 1984.pdf
Mallard	Iron	3.52E-01	0.02	BaBEEF	BAES et al 1984.pdf
Mallard	Lead	1.17E-01	0.0003	BaBEEF	USEPA ChemData2005.XLS
Mallard	Manganese	2.74E-03	0.0004	BaBEEF	BAES et al 1984.pdf
Mallard	Mercury	4.20E-01	0.25	BaBEEF	BAES et al 1984.pdf
Mallard	Molybdenum	8.28E-02	0.006	BaBEEF	BAES et al 1984.pdf
Mallard	Selenium	1.07E+01	1.12625	Bapoult	USEPA ChemData2005.XLS
Moose	Arsenic	1.52E-03	0.002	BaBEEF	USEPA ChemData2005.XLS

Table 2-11: Biotransfer Factors Used to Predict Game Meat Concentrations (day/ kg WW)

Receptor	Chemical	Site Specific Value	Literature Value	Literature BTF Type	Literature Reference / Comment
Moose	Barium	1.50E-04	0.00015	BaBEEF	USEPA ChemData2005.XLS
Moose	Beryllium	1.00E-03	0.001	BaBEEF	USEPA ChemData2005.XLS
Moose	Chromium	1.31E-03	0.0055	BaBEEF	USEPA ChemData2005.XLS
Moose	Cobalt	4.29E-03	0.02	BaBEEF	BAES et al 1984.pdf
Moose	Iron	1.99E-03	0.02	BaBEEF	BAES et al 1984.pdf
Moose	Lead	2.39E-03	0.0003	BaBEEF	USEPA ChemData2005.XLS
Moose	Manganese	3.78E-05	0.0004	BaBEEF	BAES et al 1984.pdf
Moose	Mercury	2.20E-03	0.25	BaBEEF	BAES et al 1984.pdf
Moose	Molybdenum	5.97E-04	0.006	BaBEEF	BAES et al 1984.pdf
Moose	Selenium	3.21E-02	0.002265	BaBEEF	USEPA ChemData2005.XLS

BTF set to literature value

Table 2-12: Input Parameters for Predicting Plant Concentrations from Deposition

Parameter	Variable	Browse / Forgage
Intercept Fraction [Unitless]	Rp	0.053
Plant Surface Loss Coefficient [yr-1]	Kp	18
Length of Plant Exposure [year]	Tp	0.16
Yield or Productivity [kg-DW/m2]	Yp	0.252

APPENDIX G

Baseline Soil and Country Foods Sampling Program

TECHNICAL MEMORANDUM

DATE May 2025 **Project No.** CA0003092.5894

TO Michel Groleau
Champion Iron Mines (CIM)

CC Sharelene Baird (CIM), Christina Condarcuri (WSP), Jean-Marc Crew (WSP)

FROM Chelsea Brecher, Sharon Guin, Kelly Johnson **EMAIL chelsea.brecher@wsp.com; sharon.guin@wsp.com; kelly.johnson1@wsp.com**

KAMI PROJECT: BASELINE SOIL AND COUNTRY FOODS SAMPLING PROGRAM

1.0 INTRODUCTION AND BACKGROUND

WSP Canada Inc. (WSP) has been retained by Champion Iron Ltd. (CIL) to prepare an Environmental Impact Statement (EIS) for the Kamistiatusset Iron Ore Project (i.e., "Kami Project") located southwest of the towns of Wabush and Labrador City in Newfoundland and Labrador and east of Fermont, Quebec.

An EIS was previously prepared for the Kami Project by Alderon in 2012. As part of an Information Request (IR) for this EIS, Health Canada recommended that baseline samples of edible vegetation and small mammals be collected from the area most impacted by the project dust. Health Canada also recommended that edible fish species in Long Lake be collected and analysed for metals. It was anticipated that baseline concentrations could be compared to samples collected during project operations and could assist the proponent in the event of public complaint or concern about changes in the quality and taste of these country foods. As part of the Canadian Environmental Assessment Agency's Comprehensive Study Report, which summarized the outcomes of the EIS, mitigation and monitoring requirements for Alderon, the following monitoring requirement became a commitment of Alderon's EA approval:

Conduct a country food sampling program to evaluate any changes in the environment that may occur as a result of the project.

As part of the human health risk assessment (HHRA) being prepared for the current EIS, WSP conducted a baseline country food sampling program to address the Health Canada IR from the 2012 EIS (Alderon 2012) recommending collection of baseline country foods samples. It is anticipated that paired soil and vegetation and paired surface water and fish tissue data will also be used to develop site-specific bioaccumulation factors (BAFs) to predict future exposure concentrations in the HHRA.

Note that while collection of small mammal samples was recommended by Health Canada, small mammal sample collection was not included in this program due to logistical constraints.

This memorandum summarizes the field sampling methodology, laboratory analysis, and analytical results for baseline soil, vegetation, and fish tissue samples.

2.0 METHODOLOGY

WSP conducted the country food sampling program between September 5 and 26, 2024. The program included the collection of soil, edible vegetation and fish samples with submission to Bureau Veritas (BV) for analysis of metals, moisture, pH, and/or total organic carbon (TOC). Samples of interest from these media were selected based on information provided by local people about what they consumed and Alderon (2012).

2.1 Vegetation

The sampling program included the collection of vegetation samples of interest (i.e., blueberries [*Vaccinium angustifolium* and/or *V. boreale*], cranberries [*V. vitis-idaea*], and Labrador tea [*Rhododendron groenlandicum*]), co-located with soil samples, while taking spatial distribution into account. Vegetation samples of interest were identified based on their importance as food for human consumption (e.g., berries and Labrador tea) based on local knowledge and Alderon (2012). Vegetation samples were collected at 13 locations within the HHRA Local Study Area but outside the Site Assessment Area at the Mine Site (Figure 1). In addition, vegetation samples were collected from a reference location (REF 1), located approximately 16 kilometres (km) northeast of the Tailings Management Facility, for each of Labrador tea and berries (i.e., blueberries and cranberries). Sample collection took place from September 5 to September 7, 2024.

At each suitable sampling site, Universal Transverse Mercator (UTM) coordinates were marked with a Garmin GPSMAP62s Global Positioning System (GPS) device and photographs were taken in the four cardinal directions. The sample identification (ID) was recorded, the species of plant was identified, and general notes regarding the local plant community were recorded. To reduce the potential for cross contamination, plant material (i.e., leaves, berries) that was dropped during collection was not included in the sample.

Berries and leaves were hand-picked; care was taken to avoid removing any accumulated dust from their surface. Disposable nitrile gloves were worn throughout sample collection activities with gloves changed between each sample to reduce the potential for cross contamination. Each sample was comprised of plant tissue (berries/leaves) collected from several plants of the corresponding species from each sampling site. For slow-growing evergreen species (i.e., Labrador tea), care was taken to avoid collecting more than 5% of the leaves of any one plant. The sampling effort focused on picking plant material that was considered edible and exposed to aerial deposition (i.e., leaves of Labrador tea, fruit portion of blueberries and cranberries).

Each sample was comprised of 90-150 grams (g) of each vegetation type, with collected plant material placed in a clean, pre-labelled (location, date, and sample identification) clear plastic sealable bag. At locations where there was a sufficient quantity of blueberries and cranberries, individual samples of each were collected. If there were too few berries from one species, blueberries and cranberries were composited to meet the 90-150 g requirement, creating a mixed berry sample. Once the sample was collected, the air was squeezed out of the bag and the bag was sealed. Plant tissue and co-located soil samples (See Section 2.2 for sampling details) were stored in coolers packed with ice to maintain a cool temperature until they were delivered to the laboratory for analysis. Collected samples were recorded on a chain-of-custody form, which was also placed in the coolers prior to delivery to the analytical laboratory.

Laboratory analyses of vegetation samples were performed by BV Laboratories in Mississauga,

Ontario. Vegetation samples were analyzed for the following parameters:

- moisture content; and,
- total metals: antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, phosphorus, potassium, selenium, silver, sodium, strontium, thallium, tin, titanium, uranium, vanadium, and zinc.

Mercury in vegetation was analyzed using cold vapour atomic absorption (CVAA) spectroscopy, total metals in vegetation were analyzed using inductively coupled plasma mass spectrometry (ICPMS), and moisture content was analyzed using the Association of Official Agricultural Chemists (AOAC) method (AOAC 1999). The laboratory certificates of analyses are provided in Appendix A.

2.2 Soil

Soil samples were collected at the vegetation sampling locations, including at the previously identified reference location (REF 1) (Figure 1). A field duplicate soil sample was collected at sampling location V10 for quality assurance/quality control (QA/QC) purposes. The soil sample from V17 was not analysed because the jar was cracked during transportation to the laboratory. Soil sample collection took place in tandem with vegetation sampling from September 5 to September 7, 2024.

Upon arriving at a suitable soil sampling site, UTM coordinates were marked with a Garmin GPSMAP62s GPS device and photographs were taken in the four cardinal directions. Before collecting the samples, leaves and debris were cleared from the ground surface. Disposable nitrile gloves were worn to collect samples with gloves changed between each sample to reduce the potential for cross contamination. A clean stainless-steel round-point shovel was used to collect a 60 g sample within the top 15 centimetres (cm) of soil. The shovel was cleaned using a 70% isopropyl alcohol spray, followed by a rinse with deionized water between samples. Soil samples were placed into clean, pre-labelled (location, date and sample identification) glass jars that had been prepared by the laboratory. All jars of soil were then sealed and placed in coolers packed with ice until they were delivered to the laboratory for analysis. All samples were recorded on a chain-of-custody form, which was also placed in the coolers prior to delivery to the analytical laboratory.

Qualitative observations were made on the soil texture and quality in the field. Quantitative analyses of soil samples were performed by BV Laboratories in Mississauga, Ontario. Soil samples were analyzed for the following parameters:

- pH;
- Total organic carbon (TOC); and,
- total metals: aluminum, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, phosphorus, potassium, selenium, silver, sodium, strontium, thallium, tin, uranium, vanadium, and zinc.

Total metals in soil were analyzed using ICPMS. Soil pH was analysed using a calcium chloride extraction, and TOC in soil was analyzed according to the analytical method outlined by BC MOE (2014). The laboratory certificates of analyses are provided in Appendix A.

2.3 Fish

The fish tissue sampling program included the collection of fish samples from Long Lake where the Kami Project has the potential to have effects on water quality. The species of fish desired for sampling were identified based on their importance as food for human consumption and availability in Duley Lake (i.e., brook trout [*Salvelinus fontinalis*], ouananiche [i.e., landlocked Atlantic salmon [*Salmo salar*]], lake trout [*Salvelinus namaycush*], northern pike [*Esox Lucius*]) based on local knowledge and WSP(2023).

Fish were caught via angling on the northeast side of Long Lake on August 16 and August 26, 2024 (Figure 1). A total of 12 lake trout and one northern pike were collected.

After they were caught, fish were sampled for moisture, total metals, and methylmercury analysis. A boneless, skinless fillet was collected and placed into a clean, pre-labelled (location, date, and sample identification) plastic sealable bag. All samples were frozen as early as possible and held until the sampling trip was complete. The samples were recorded on a chain-of-custody form, which was also placed in the coolers prior to delivery to the analytical laboratory. Samples were then sent to BV Laboratories in Mississauga, Ontario, for analysis of the following parameters:

- moisture content;
- methylmercury; and
- total metals: antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, calcium, cesium, chromium (total), cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, phosphorus, potassium, selenium, silver, sodium, strontium, thallium, tin, titanium, uranium, vanadium, and zinc.

Mercury in fish tissue was analyzed using CVAA spectroscopy, methyl mercury in fish tissue was analysed using cold vapour atomic fluorescence spectrometry (CVAFS), total metals in fish tissue were analyzed using ICPMS, and moisture content was analyzed using the AOAC method (AOAC 1999). The laboratory certificates of analyses are provided in Appendix A.

2.4 Summary

A summary of soil, vegetation, and fish samples collected during the 2024 field program is presented in Table 1.

Table 1: Summary of Samples Collected for Soil, Vegetation, and Fish Tissue

Media	Total Number of Samples Collected[a]	Analysis
Vegetation Tissue	25 (2 ref)	-
Blueberries	2	metals, moisture content
Cranberries	5	metals, moisture content
Mixed Berries (blueberries and cranberries)	6 (1 ref)	metals, moisture content
Labrador Tea	12 (1 ref)	metals, moisture content
Soil	14 (1 dup, 1 ref)[b]	metals, total organic carbon, pH
Fish Tissue (muscle)	13	metals, methyl mercury, moisture content

Notes: dup = duplicate sample; ref = reference sample.
[a]Totals include field duplicate and reference samples. Duplicate and reference samples are indicated in brackets.
[b]Soil was collected at location V17, but the sample was not analyzed as the jar was cracked when it was received by the lab.

2.5 Quality Assurance and Quality Control

Field duplicates were collected for soil for QA/QC purposes. Duplicates provide an indication of natural sample variation and the precision of the field sampling process. Duplicate samples were collected with 10% frequency.

To obtain duplicate soil samples, two samples were collected from the sample location following the methods described above and placed into separate glass jars. Each duplicate sample was submitted to the laboratory for analyses via the methods and for the parameters identified above.

The results of the duplicate pair were expressed as a Relative Percent Difference (RPD). The RPD is an indicator of precision in the acquisition, handling, and preparation of samples and sample heterogeneity. Lower RPD numbers indicate better precision in the acquisition, handling, and preparation of samples analysis and sample homogeneity. The formula for computing the RPD is given in the equation below (CCME 2016):

$$RPD = \frac{|Sample - Duplicate|}{Mean} \times 100$$

Where (for metals):

RPD = relative percent difference (percent [%]);

Sample = concentration in original sample (micrograms per gram [µg/g]);

Duplicate = concentration in duplicate sample (µg/g); and

Mean = average of the original sample and the duplicate sample (µg/g).

RPDs were not calculated if concentrations were not detected in one or both of the duplicate samples.

3.0 RESULTS

3.1 Vegetation

In berry samples, moisture content ranged from 83% to 86%. Concentrations of the following metals were less than detection limits in all samples submitted for analysis: antimony, arsenic, beryllium, bismuth, cadmium, magnesium, mercury, molybdenum, selenium, silver, sodium, thallium, tin, uranium, and vanadium. Of the samples with detected metals concentrations, the minimum and maximum concentrations were within an order of magnitude of each other, indicating that there was little variability overall in metal concentrations between berry samples. Maximum detectable concentrations of metals were within one order of magnitude of the reported detection limit (RDL) except for manganese (RDL = 2.0 µg/g, maximum concentration = 123 µg/g). For both moisture and total metals, the reference sample concentrations were comparable to the site sample concentrations and fall within or marginally outside the range of minimum and maximum site concentrations.

In Labrador tea samples, moisture content ranged from 48% to 54%. Concentrations of the following metals were less than detection limits in all samples submitted for analysis: antimony, arsenic, beryllium, bismuth, cadmium, mercury, selenium, silver, sodium, and tin. The minimum and maximum detectable concentrations for all metals in all samples were within an order of magnitude of each other, indicating that there was little variability overall in metal concentrations between Labrador tea samples. Maximum detectable concentrations of metals were all

within one order of magnitude of the RDL except for barium (RDL = 0.3 µg/g, maximum concentration = 45 µg/g), calcium (RDL = 50 µg/g, maximum concentration = 3,110 µg/g), iron (RDL = 3.0 µg/g, maximum concentration = 346 µg/g), manganese (RDL = 2.0 µg/g, maximum concentration = 708 µg/g), and strontium (RDL = 0.5 µg/g, maximum concentration = 17 µg/g). For both moisture and metals, the reference sample concentrations are comparable to the site sample concentrations and fall within or marginally outside the range of minimum and maximum site concentrations.

The results of the vegetation sampling program are presented in Table 1, Appendix B.

3.2 Soil

Soil collected around vegetation had concentrations of antimony, boron, cadmium, mercury, selenium, silver and tin less than detection limits in all samples submitted for analysis. Of the samples with detectable metals concentrations, the minimum and maximum concentrations were within an order of magnitude of each other, with the exceptions of calcium (79 to 2,000 µg/g), magnesium (140 to 13,000 µg/g), and manganese (32 to 1,600 µg/g), demonstrating there was little variability overall in metal concentrations between soil samples. Soil pH ranged from 3.03 to 5.30. TOC in soil ranged from 4,800 to 25,000 milligrams per kilogram (mg/kg). The reference sample concentrations were comparable to the site sample concentrations and fall within the range of minimum and maximum site concentrations.

Soil concentrations were compared to Canadian Council of the Ministers of the Environment (CCME) Soil Quality Guidelines for the Protection of Human Health for Agricultural Land Use (CCME 1999 and subsequent updates) and the Atlantic PIRI Human Health Tier I Environmental Quality Standards (EQS) for Soil (Atlantic PIRI, 2021, updated 2022), agricultural land use. The concentrations were below guidelines, except for the following: aluminum (one out of 12 samples exceeded Atlantic PIRI EQS), iron (11 out of 12 samples exceeded Atlantic PIRI EQS), manganese (four out of 12 samples exceeded Atlantic PIRI EQS) and vanadium (one out of 12 samples exceeded Atlantic PIRI EQS). The soil pH ranged from 3.03 to 5.30 and was lower than the CCME guideline range of 6 to 8.

The results of the soil sampling program are presented in Table 2, Appendix B.

3.3 Fish

The results of the fish sampling program are presented in Table 3, Appendix B. Total metal concentrations and moisture content were similar between lake trout and northern pike samples, so the results were grouped for discussion.

Moisture content ranged from 73% to 77%. Concentrations of the following metals were less than detection limits in all samples submitted for analysis: antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, chromium, cobalt, lead, molybdenum, nickel, silver, and tin. Of the samples with detectable metals concentrations, the minimum and maximum concentrations were within an order of magnitude of each other, except calcium (54 to 1,500 µg/g). All samples had detectable concentrations of methyl mercury, and the minimum and maximum concentrations were within one order of magnitude of each other. This indicates that there was little variability overall in metal and methylmercury concentrations between fish tissue samples.

3.4 Quality Assurance and Quality Control

The RPDs for duplicates for metal concentrations in soil are presented in Appendix B, Table 4. The RPDs for the soil duplicate at V10 were less than 30% for all metals. These results suggest that there was a high degree of precision in the acquisition, handling and preparation of the field duplicate samples. The results could also suggest that the soils in the vicinity of the vegetation have a low degree of heterogeneity (CCME 2016).

4.0 CONCLUSIONS

The country foods sampling program included collection of edible vegetation and paired soil samples from within the local study area around the mine site, taking into account spatial distribution. In addition, fish tissue samples from species commonly consumed by local people were collected from Long Lake, where effects to water quality from the Kami Project have the potential to occur. Overall, the vegetation tissue, soil and fish tissue concentrations showed relatively little variation between samples. Soil concentrations were below guidelines protective of human health, except for aluminum, iron, manganese, and vanadium. These baseline country foods and soil concentrations will be used in the HHRA to provide context to the predicted changes to environmental quality as a result of the Kami Project and to calculate site-specific BAFs.

5.0 REFERENCES

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Atlantic PIRI. 2021, updated 2022. Human Health-Based Tier I Environmental Quality Standards (EQS) for Soil - All Land Uses; Potable Groundwater Condition (mg/kg). Agricultural, Coarse soil.

Association of Official Agricultural Chemists (AOAC). 1999. Analytical Methods: Moisture Content. Available at: https://www.scribd.com/document/185078534/282441-app. Accessed November 4, 2024.

British Colombia Ministry of the Environment (BC MOE). 2014. Total Organic Carbon (TOC / FOC) in Soil/Sediment by Combustion (PBM). Available at: https://www2.gov.bc.ca/assets/gov/environment/research-monitoring-and-reporting/monitoring/emre/bc-lab-manual-toc-soils-pbm.pdf. Accessed November 4, 2024.

Canadian Council of Ministers of the Environment (CCME). 1999 and subsequent updates. Canadian Soil Quality Guidelines for the Protection of Human Health (SQGHH). Agricultural land use. Parameter-specific guidelines: Antimony (1991); Arsenic (1997); Barium (2013); Beryllium (2015); Cadmium (1999); Chromium: total chromium (1997); Cobalt (1991); Copper (1999); Lead (1999); Mercury (1999); Molybdenum (1991); Nickel (2015); Selenium (2009); Silver (1991); Thallium (1999); Tin (1991); Uranium (2007); Vanadium (1997); Zinc (2018).

CCME. 2016. Guidance Manual for Environmental Site Characterization in Support of Environmental and Human Health Risk Assessment. Volume 1: Guidance Manual.

WSP. 2023. Fish and Fish Habitat Baseline Report. Kami Iron Ore Mining Project.

6.0 SIGNATURES

Chelsea Brecher, MES, EPt.
Environmental Risk Assessor

Sharon Guin, M.Sc.
Senior Environmental Risk Assessor

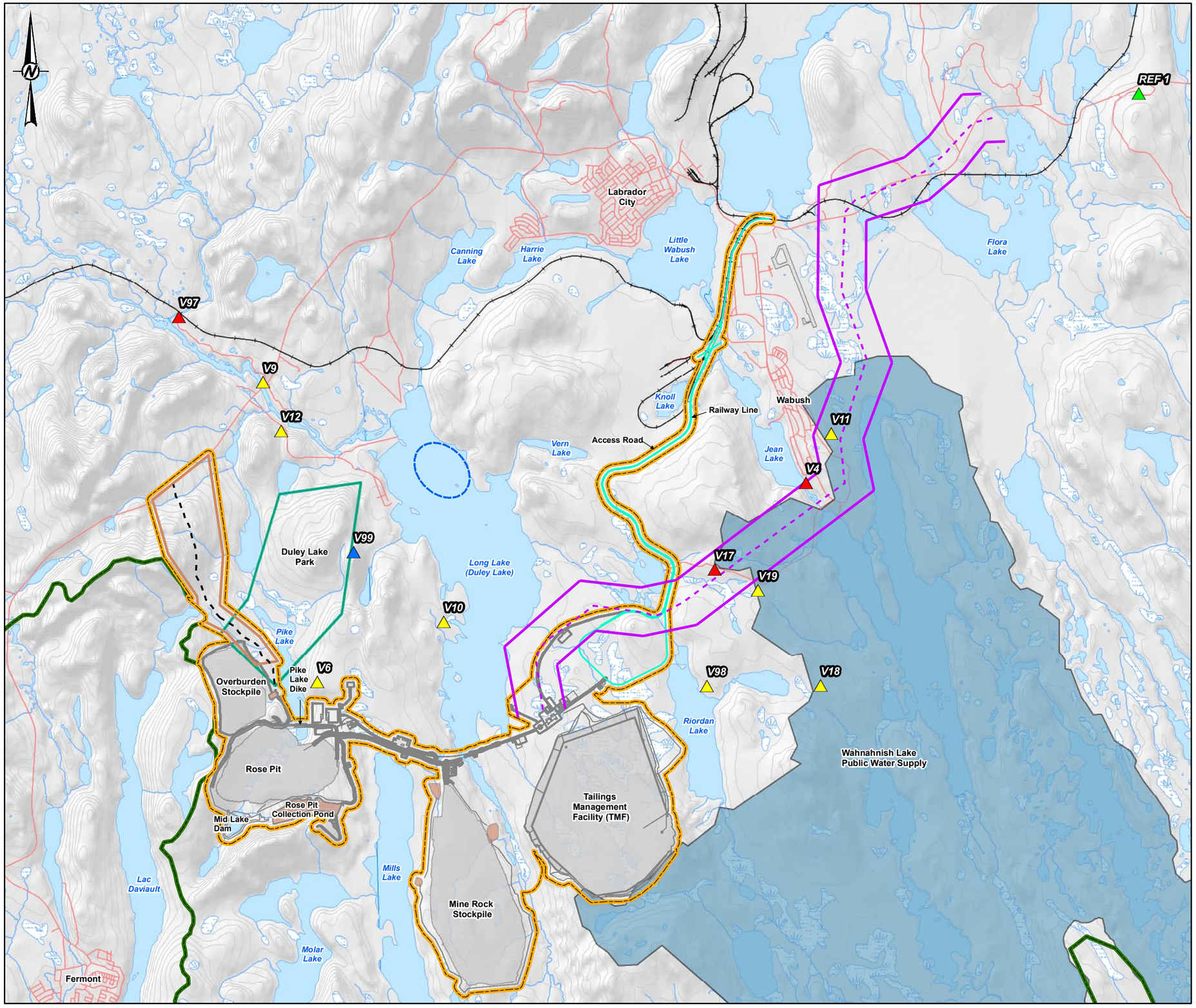
Kelly Johnson, Ph.D.
Senior Principal, Environmental Risk Assessor

CB/SG/KJ

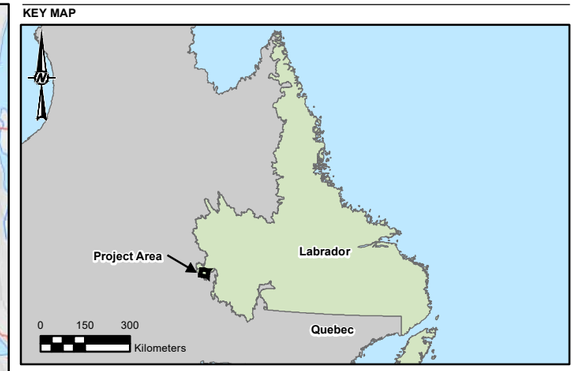
Attachments: Figure 1 – Country Foods – Soil, Vegetation, and Fish Tissue Sample Locations
Appendix A – Laboratory Certificates of Analysis
Appendix B – Analytical Tables

https://wsponlinecan.sharepoint.com/sites/ca-kamieaca00030925894/technical disciplines/01_environmental assessment/03_eis/x_baseline reports and technical support documents/tsd xi_human health risk assessment modelling report/g - baseline soil and country food sampling memo/ca00038713_rev0__tm_kami_country foods sampling_01112024.docx

Figure



KEY MAP



SCALE 1:20,000,000

LEGEND

PROJECT DATA

- Proposed Infrastructure
- Proposed Infrastructure
- Proposed Sedimentation Pond
- Site Assessment Area
- Proposed Access Road
- Potential Access Road
- Proposed Access Road and Railway Corridor
- Potential Transmission Line Route (Option 1)
- Potential Transmission Line Corridor (Option 1)
- Fish Tissue Sampling Area
- Co-located soil and Labrador tea sample
- Co-located soil and berry sample
- Co-located soil, berry and Labrador tea sample
- Co-located soil, berry and Labrador tea Reference sample

BASEMAP INFORMATION

- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 800 1,600 3,200
1:80,000 METRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE
COUNTRY FOODS – SOIL, VEGETATION AND FISH TISSUE SAMPLE LOCATIONS

YYYY-MM-DD	2024-10-21
DESIGNED	----
PREPARED	JMA
REVIEWED	AF
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	B	Figure 1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: E:\Kami\Project_Figures\MXD\Vegetation\TE23930010_VG_CountryFoodsSamples_October2024.mxd PRINTED ON: 2024-10-21 AT: 1:27:24 PM

APPENDIX A

Laboratory Certificates of Analysis

Your Project #: CA0003092.5894
Your C.O.C. #: C#1009862-01-01

Attention: Sharon Guin

WSP Canada Inc.
100 Scotia Crt
Whitby, ON
CANADA L1N 8Y6

Report Date: 2024/10/01
Report #: R8343496
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4S7284
Received: 2024/09/13, 09:47

Sample Matrix: Soil
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acid Extractable Metals by ICPMS	13	2024/09/27	2024/09/27	CAM SOP-00447	EPA 6020B m
pH CaCl2 EXTRACT	13	2024/09/26	2024/09/26	CAM SOP-00413	EPA 9045 D m
Total Organic Carbon in Soil	13	N/A	2024/10/01	CAM SOP-00468	BCMOE TOC Aug 2014

Sample Matrix: Tissue
Samples Received: 25

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Mercury in Vegetation by CVAA	25	2024/09/19	2024/09/23	CAM SOP-00453	Health Canada Method
Metals in Vegetation by ICPMS	25	N/A	2024/09/19	CAM SOP-00447	EPA 6020/200.3 m
Moisture	25	N/A	2024/09/19	CAM SOP-00715	AOAC\ADPI methods

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: CA0003092.5894
Your C.O.C. #: C#1009862-01-01

Attention: Sharon Guin

WSP Canada Inc.
100 Scotia Crt
Whitby, ON
CANADA L1N 8Y6

Report Date: 2024/10/01
Report #: R8343496
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4S7284
Received: 2024/09/13, 09:47

Encryption Key



Ankita Bhalla
Project Manager
01 Oct 2024 17:25:48

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

==========

This report has been generated and distributed using a secure automated process.
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Bureau Veritas Job #: C4S7284
Report Date: 2024/10/01

WSP Canada Inc.
Client Project #: CA0003092.5894
Sampler Initials: GG

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ACUP36	ACUP39	ACUP43	ACUP46	ACUP51		
Sampling Date		2024/09/07 10:30	2024/09/07 08:45	2024/09/07 08:05	2024/09/07 07:15	2024/09/06 15:30		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	V4	V12	V97	V9	REF 1	RDL	QC Batch
Inorganics								
Total Organic Carbon	mg/kg	7000	4800	14000	9500	11000	500	9666791
Available (CaCl2) pH	pH	3.57	4.21	3.45	4.01	3.89		9665014

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP51		ACUP59	ACUP63	ACUP65		
Sampling Date		2024/09/06 15:30		2024/09/06 12:45	2024/09/05 09:30	2024/09/06 11:20		
COC Number		C#1009862-01-01		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	REF 1 Lab-Dup	QC Batch	V98	V99	V18	RDL	QC Batch
Inorganics								
Total Organic Carbon	mg/kg			9900	19000	22000	500	9666791
Available (CaCl2) pH	pH	3.89	9665014	3.28	4.67	4.64		9665014

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ACUP70	ACUP75	ACUP76	ACUP77	ACUP82		
Sampling Date		2024/09/06 09:30	2024/09/05 11:30	2024/09/05 11:30	2024/09/06 08:00	2024/09/05 13:00		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	V19	V10 -1	V10 -2	V11	V6	RDL	QC Batch
Inorganics								
Total Organic Carbon	mg/kg	8900	13000	10000	5700	25000	500	9666791
Available (CaCl2) pH	pH	5.30	4.16	3.43	4.42	3.03		9665014

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ACUP36	ACUP39	ACUP39	ACUP43		
Sampling Date		2024/09/07 10:30	2024/09/07 08:45	2024/09/07 08:45	2024/09/07 08:05		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	V4	V12	V12 Lab-Dup	V97	RDL	QC Batch
Metals							
Acid Extractable Aluminum (Al)	ug/g	990	4300	3900	1700	50	9667295
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	9667295
Acid Extractable Arsenic (As)	ug/g	1.4	<1.0	<1.0	<1.0	1.0	9667295
Acid Extractable Barium (Ba)	ug/g	9.0	7.9	7.2	15	0.50	9667295
Acid Extractable Beryllium (Be)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	9667295
Acid Extractable Bismuth (Bi)	ug/g	<1.0	<1.0	<1.0	<1.0	1.0	9667295
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	<5.0	5.0	9667295
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	<0.10	0.10	9667295
Acid Extractable Calcium (Ca)	ug/g	79	380	370	250	50	9667295
Acid Extractable Chromium (Cr)	ug/g	4.0	14	15	6.6	1.0	9667295
Acid Extractable Cobalt (Co)	ug/g	2.2	1.9	2.0	1.6	0.10	9667295
Acid Extractable Copper (Cu)	ug/g	1.9	1.9	1.9	2.4	0.50	9667295
Acid Extractable Iron (Fe)	ug/g	53000	23000	25000	27000	50	9667295
Acid Extractable Lead (Pb)	ug/g	1.4	4.5	4.4	2.4	1.0	9667295
Acid Extractable Magnesium (Mg)	ug/g	150	810	760	260	50	9667295
Acid Extractable Manganese (Mn)	ug/g	300	76	78	66	1.0	9667295
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.72	<0.50	1.1	0.50	9667295
Acid Extractable Nickel (Ni)	ug/g	2.0	3.3	3.3	1.9	0.50	9667295
Acid Extractable Phosphorus (P)	ug/g	170	390	390	110	50	9667295
Acid Extractable Potassium (K)	ug/g	<200	<200	<200	<200	200	9667295
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	9667295
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	9667295
Acid Extractable Sodium (Na)	ug/g	<50	<50	<50	<50	50	9667295
Acid Extractable Strontium (Sr)	ug/g	1.2	6.9	6.8	5.0	1.0	9667295
Acid Extractable Thallium (Tl)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	9667295
Acid Extractable Tin (Sn)	ug/g	<1.0	<1.0	<1.0	<1.0	1.0	9667295
Acid Extractable Uranium (U)	ug/g	0.15	0.22	0.26	0.39	0.050	9667295
Acid Extractable Vanadium (V)	ug/g	16	30	30	15	5.0	9667295
Acid Extractable Zinc (Zn)	ug/g	5.5	6.1	5.9	<5.0	5.0	9667295
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	9667295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ACUP46	ACUP51	ACUP59	ACUP63		
Sampling Date		2024/09/07 07:15	2024/09/06 15:30	2024/09/06 12:45	2024/09/05 09:30		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	V9	REF 1	V98	V99	RDL	QC Batch
Metals							
Acid Extractable Aluminum (Al)	ug/g	17000	5100	1500	11000	50	9667295
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	9667295
Acid Extractable Arsenic (As)	ug/g	<1.0	1.8	<1.0	1.3	1.0	9667295
Acid Extractable Barium (Ba)	ug/g	200	24	6.4	39	0.50	9667295
Acid Extractable Beryllium (Be)	ug/g	<0.20	<0.20	<0.20	0.20	0.20	9667295
Acid Extractable Bismuth (Bi)	ug/g	<1.0	<1.0	<1.0	<1.0	1.0	9667295
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	<5.0	5.0	9667295
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	<0.10	0.10	9667295
Acid Extractable Calcium (Ca)	ug/g	1600	250	290	1300	50	9667295
Acid Extractable Chromium (Cr)	ug/g	97	25	2.4	38	1.0	9667295
Acid Extractable Cobalt (Co)	ug/g	14	3.4	0.92	3.9	0.10	9667295
Acid Extractable Copper (Cu)	ug/g	7.0	3.4	<0.50	4.5	0.50	9667295
Acid Extractable Iron (Fe)	ug/g	37000	62000	25000	27000	50	9667295
Acid Extractable Lead (Pb)	ug/g	2.0	5.3	2.3	9.4	1.0	9667295
Acid Extractable Magnesium (Mg)	ug/g	13000	1400	140	3200	50	9667295
Acid Extractable Manganese (Mn)	ug/g	150	610	88	300	1.0	9667295
Acid Extractable Molybdenum (Mo)	ug/g	0.73	0.53	<0.50	<0.50	0.50	9667295
Acid Extractable Nickel (Ni)	ug/g	48	6.5	0.56	10	0.50	9667295
Acid Extractable Phosphorus (P)	ug/g	1700	360	110	750	50	9667295
Acid Extractable Potassium (K)	ug/g	2700	700	<200	900	200	9667295
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	9667295
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	9667295
Acid Extractable Sodium (Na)	ug/g	170	<50	<50	<50	50	9667295
Acid Extractable Strontium (Sr)	ug/g	7.1	4.1	4.5	16	1.0	9667295
Acid Extractable Thallium (Tl)	ug/g	0.12	0.066	<0.050	0.082	0.050	9667295
Acid Extractable Tin (Sn)	ug/g	<1.0	<1.0	<1.0	<1.0	1.0	9667295
Acid Extractable Uranium (U)	ug/g	0.17	0.25	0.20	0.39	0.050	9667295
Acid Extractable Vanadium (V)	ug/g	41	36	5.7	35	5.0	9667295
Acid Extractable Zinc (Zn)	ug/g	43	12	<5.0	20	5.0	9667295
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	9667295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ACUP65		ACUP70		ACUP75		
Sampling Date		2024/09/06 11:20		2024/09/06 09:30		2024/09/05 11:30		
COC Number		C#1009862-01-01		C#1009862-01-01		C#1009862-01-01		
	UNITS	V18	QC Batch	V19	QC Batch	V10 -1	RDL	QC Batch
Metals								
Acid Extractable Aluminum (Al)	ug/g	4600	9667295	10000	9667935	7400	50	9667295
Acid Extractable Antimony (Sb)	ug/g	<0.20	9667295	<0.20	9667935	<0.20	0.20	9667295
Acid Extractable Arsenic (As)	ug/g	<1.0	9667295	1.9	9667935	<1.0	1.0	9667295
Acid Extractable Barium (Ba)	ug/g	30	9667295	44	9667935	8.9	0.50	9667295
Acid Extractable Beryllium (Be)	ug/g	<0.20	9667295	0.29	9667935	<0.20	0.20	9667295
Acid Extractable Bismuth (Bi)	ug/g	<1.0	9667295	<1.0	9667935	<1.0	1.0	9667295
Acid Extractable Boron (B)	ug/g	<5.0	9667295	<5.0	9667935	<5.0	5.0	9667295
Acid Extractable Cadmium (Cd)	ug/g	<0.10	9667295	<0.10	9667935	<0.10	0.10	9667295
Acid Extractable Calcium (Ca)	ug/g	1400	9667295	2000	9667935	390	50	9667295
Acid Extractable Chromium (Cr)	ug/g	17	9667295	44	9667935	19	1.0	9667295
Acid Extractable Cobalt (Co)	ug/g	3.0	9667295	10	9667935	2.2	0.10	9667295
Acid Extractable Copper (Cu)	ug/g	4.0	9667295	9.4	9667935	3.9	0.50	9667295
Acid Extractable Iron (Fe)	ug/g	29000	9667295	72000	9667935	27000	50	9667295
Acid Extractable Lead (Pb)	ug/g	4.6	9667295	6.1	9667935	4.8	1.0	9667295
Acid Extractable Magnesium (Mg)	ug/g	2100	9667295	4700	9667935	1500	50	9667295
Acid Extractable Manganese (Mn)	ug/g	560	9667295	1400	9667935	140	1.0	9667295
Acid Extractable Molybdenum (Mo)	ug/g	0.71	9667295	0.79	9667935	<0.50	0.50	9667295
Acid Extractable Nickel (Ni)	ug/g	6.2	9667295	18	9667935	5.1	0.50	9667295
Acid Extractable Phosphorus (P)	ug/g	330	9667295	670	9667935	480	50	9667295
Acid Extractable Potassium (K)	ug/g	450	9667295	530	9667935	220	200	9667295
Acid Extractable Selenium (Se)	ug/g	<0.50	9667295	<0.50	9667935	<0.50	0.50	9667295
Acid Extractable Silver (Ag)	ug/g	<0.20	9667295	<0.20	9667935	<0.20	0.20	9667295
Acid Extractable Sodium (Na)	ug/g	<50	9667295	<50	9667935	<50	50	9667295
Acid Extractable Strontium (Sr)	ug/g	8.0	9667295	10	9667935	5.2	1.0	9667295
Acid Extractable Thallium (Tl)	ug/g	0.062	9667295	0.063	9667935	<0.050	0.050	9667295
Acid Extractable Tin (Sn)	ug/g	<1.0	9667295	<1.0	9667935	<1.0	1.0	9667295
Acid Extractable Uranium (U)	ug/g	0.22	9667295	0.35	9667935	0.21	0.050	9667295
Acid Extractable Vanadium (V)	ug/g	22	9667295	35	9667935	25	5.0	9667295
Acid Extractable Zinc (Zn)	ug/g	16	9667295	30	9667935	12	5.0	9667295
Acid Extractable Mercury (Hg)	ug/g	<0.050	9667295	<0.050	9667935	<0.050	0.050	9667295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ACUP76	ACUP77	ACUP82		
Sampling Date		2024/09/05 11:30	2024/09/06 08:00	2024/09/05 13:00		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	V10 -2	V11	V6	RDL	QC Batch
Metals						
Acid Extractable Aluminum (Al)	ug/g	5500	3900	3500	50	9667295
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.20	9667295
Acid Extractable Arsenic (As)	ug/g	<1.0	2.4	<1.0	1.0	9667295
Acid Extractable Barium (Ba)	ug/g	6.9	18	18	0.50	9667295
Acid Extractable Beryllium (Be)	ug/g	<0.20	<0.20	<0.20	0.20	9667295
Acid Extractable Bismuth (Bi)	ug/g	<1.0	<1.0	<1.0	1.0	9667295
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	5.0	9667295
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	0.10	9667295
Acid Extractable Calcium (Ca)	ug/g	350	350	390	50	9667295
Acid Extractable Chromium (Cr)	ug/g	17	15	19	1.0	9667295
Acid Extractable Cobalt (Co)	ug/g	2.0	6.2	1.3	0.10	9667295
Acid Extractable Copper (Cu)	ug/g	3.9	4.5	0.58	0.50	9667295
Acid Extractable Iron (Fe)	ug/g	30000	89000	11000	50	9667295
Acid Extractable Lead (Pb)	ug/g	4.5	2.8	5.4	1.0	9667295
Acid Extractable Magnesium (Mg)	ug/g	1300	1200	1100	50	9667295
Acid Extractable Manganese (Mn)	ug/g	120	1600	32	1.0	9667295
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	<0.50	0.50	9667295
Acid Extractable Nickel (Ni)	ug/g	4.5	5.9	4.4	0.50	9667295
Acid Extractable Phosphorus (P)	ug/g	420	760	120	50	9667295
Acid Extractable Potassium (K)	ug/g	<200	<200	590	200	9667295
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	0.50	9667295
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	0.20	9667295
Acid Extractable Sodium (Na)	ug/g	<50	<50	<50	50	9667295
Acid Extractable Strontium (Sr)	ug/g	4.3	2.3	8.6	1.0	9667295
Acid Extractable Thallium (Tl)	ug/g	<0.050	<0.050	<0.050	0.050	9667295
Acid Extractable Tin (Sn)	ug/g	<1.0	<1.0	<1.0	1.0	9667295
Acid Extractable Uranium (U)	ug/g	0.22	0.24	0.25	0.050	9667295
Acid Extractable Vanadium (V)	ug/g	27	16	32	5.0	9667295
Acid Extractable Zinc (Zn)	ug/g	10	12	5.7	5.0	9667295
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	0.050	9667295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF TISSUE

Bureau Veritas ID		ACUP37	ACUP37		ACUP40		
Sampling Date		2024/09/07 10:30	2024/09/07 10:30		2024/09/07 08:45		
COC Number		C#1009862-01-01	C#1009862-01-01		C#1009862-01-01		
	UNITS	V4A + V4B LABRADOR TEA	V4A + V4B LABRADOR TEA Lab-Dup	QC Batch	V12 -MIXED BERRIES	RDL	QC Batch
Nutritional Parameters							
Moisture	g/100g	50.85	51.11	9648534	84.14	0.10	9648297

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ACUP40		ACUP41	ACUP44		
Sampling Date		2024/09/07 08:45		2024/09/07 08:45	2024/09/07 08:05		
COC Number		C#1009862-01-01		C#1009862-01-01	C#1009862-01-01		
	UNITS	V12 -MIXED BERRIES Lab-Dup	QC Batch	V12A + V12B LABRADOR TEA	V97A + V97B LABRADOR TEA	RDL	QC Batch
Nutritional Parameters							
Moisture	g/100g	84.27	9648297	48.00	50.76	0.10	9648534

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ACUP47		ACUP50		ACUP52		
Sampling Date		2024/09/07 07:15		2024/09/07 07:15		2024/09/06 15:30		
COC Number		C#1009862-01-01		C#1009862-01-01		C#1009862-01-01		
	UNITS	V9A + V9B LABRADOR TEA	QC Batch	V9 MIXED BERRY	QC Batch	REF1A+REF1B LABRADOR TEA	RDL	QC Batch
Nutritional Parameters								
Moisture	g/100g	51.51	9648534	83.10	9648297	50.27	0.10	9648534

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4S7284
Report Date: 2024/10/01

WSP Canada Inc.
Client Project #: CA0003092.5894
Sampler Initials: GG

RESULTS OF ANALYSES OF TISSUE

Bureau Veritas ID		ACUP55		ACUP57		ACUP60		
Sampling Date		2024/09/06 15:30		2024/09/06 14:30		2024/09/06 12:45		
COC Number		C#1009862-01-01		C#1009862-01-01		C#1009862-01-01		
	UNITS	REF 1 - MIXED BERRY	QC Batch	V17A + V17B LABRADOR TEA	QC Batch	V98 CRANBERRY	RDL	QC Batch
Nutritional Parameters								
Moisture	g/100g	85.88	9648297	54.31	9648534	84.77	0.10	9648297

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP61		ACUP64		ACUP66		
Sampling Date		2024/09/06 12:45		2024/09/05 09:30		2024/09/06 11:20		
COC Number		C#1009862-01-01		C#1009862-01-01		C#1009862-01-01		
	UNITS	V98A + V98B LABRADOR TEA	QC Batch	V99 CRANBERRY	QC Batch	V18A + V18B LABRADOR TEA	RDL	QC Batch
Nutritional Parameters								
Moisture	g/100g	49.16	9648534	84.15	9648297	48.27	0.10	9648534

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP68	ACUP69		ACUP71		
Sampling Date		2024/09/06 11:20	2024/09/06 11:20		2024/09/06 09:30		
COC Number		C#1009862-01-01	C#1009862-01-01		C#1009862-01-01		
	UNITS	V18 - MIXED BERRY	V18- BLUE BERRY	QC Batch	V19A + V19B LABRADOR TEA	RDL	QC Batch
Nutritional Parameters							
Moisture	g/100g	83.91	82.81	9648297	49.01	0.10	9648534

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF TISSUE

Bureau Veritas ID		ACUP73	ACUP74		ACUP78		
Sampling Date		2024/09/06 09:30	2024/09/06 09:30		2024/09/06 08:00		
COC Number		C#1009862-01-01	C#1009862-01-01		C#1009862-01-01		
	UNITS	V19 - BLUEBERRY	V19 - CRANBERRY	QC Batch	V11A + V11B LABRADOR TEA	RDL	QC Batch
Nutritional Parameters							
Moisture	g/100g	83.18	85.28	9648297	49.33	0.10	9648534

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP80	ACUP81		ACUP83		
Sampling Date		2024/09/06 08:00	2024/09/06 08:00		2024/09/05 13:00		
COC Number		C#1009862-01-01	C#1009862-01-01		C#1009862-01-01		
	UNITS	V11 - MIXED BERRY	V11 - CRANBERRY	QC Batch	V6A + V6B LABRADOR TEA	RDL	QC Batch
Nutritional Parameters							
Moisture	g/100g	83.83	86.04	9648297	50.42	0.10	9648534

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP85		ACUP86		ACUP88		
Sampling Date		2024/09/05 13:00		2024/09/05 11:30		2024/09/05 11:30		
COC Number		C#1009862-01-01		C#1009862-01-01		C#1009862-01-01		
	UNITS	V6 - MIXED BERRY	QC Batch	V10A + V10B LABRADOR TEA	QC Batch	V10 CRANBERRY	RDL	QC Batch
Nutritional Parameters								
Moisture	g/100g	85.67	9648297	49.91	9648534	85.58	0.10	9648297

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP37			ACUP40	ACUP40		
Sampling Date		2024/09/07 10:30			2024/09/07 08:45	2024/09/07 08:45		
COC Number		C#1009862-01-01			C#1009862-01-01	C#1009862-01-01		
	UNITS	V4A + V4B LABRADOR TEA	RDL	QC Batch	V12 -MIXED BERRIES	V12 -MIXED BERRIES Lab-Dup	RDL	QC Batch
Metals								
Antimony (Sb)	ug/g	<0.05	0.05	9648370	<0.05	<0.05	0.05	9648175
Arsenic (As)	ug/g	<0.1	0.1	9648370	<0.1	<0.1	0.1	9648175
Barium (Ba)	ug/g	43.5	0.3	9648370	1.7	1.7	0.3	9648175
Beryllium (Be)	ug/g	<0.05	0.05	9648370	<0.05	<0.05	0.05	9648175
Bismuth (Bi)	ug/g	<0.05	0.05	9648370	<0.05	<0.05	0.05	9648175
Boron (B)	ug/g	3.5	0.5	9648370	<0.5	0.5	0.5	9648175
Cadmium (Cd)	ug/g	<0.01	0.01	9648370	<0.01	<0.01	0.01	9648175
Calcium (Ca)	ug/g	2650	50	9648370	136	143	50	9648175
Chromium (Cr)	ug/g	<0.3	0.3	9648370	<0.3	<0.3	0.3	9648175
Cobalt (Co)	ug/g	0.035	0.005	9648370	<0.005	<0.005	0.005	9648175
Copper (Cu)	ug/g	1.6	0.5	9648370	0.5	0.6	0.5	9648175
Iron (Fe)	ug/g	329	3	9648370	6	6	3	9648175
Lead (Pb)	ug/g	<0.03	0.03	9648370	<0.03	<0.03	0.03	9648175
Magnesium (Mg)	ug/g	635	100	9648370	<100	<100	100	9648175
Manganese (Mn)	ug/g	708	2	9648370	92.2	88.1	0.3	9648175
Molybdenum (Mo)	ug/g	<0.05	0.05	9648370	<0.05	<0.05	0.05	9648175
Nickel (Ni)	ug/g	0.36	0.05	9648370	<0.05	0.06	0.05	9648175
Phosphorus (P)	ug/g	687	50	9648370	147	155	50	9648175
Potassium (K)	ug/g	2400	100	9648370	816	817	100	9648175
Selenium (Se)	ug/g	<0.04	0.04	9648370	<0.04	<0.04	0.04	9648175
Silver (Ag)	ug/g	<0.05	0.05	9648370	<0.05	<0.05	0.05	9648175
Sodium (Na)	ug/g	<50	50	9648370	<50	<50	50	9648175
Strontium (Sr)	ug/g	7.3	0.5	9648370	<0.5	<0.5	0.5	9648175
Thallium (Tl)	ug/g	<0.003	0.003	9648370	<0.003	<0.003	0.003	9648175
Tin (Sn)	ug/g	<0.3	0.3	9648370	<0.3	<0.3	0.3	9648175
Titanium (Ti)	ug/g	1.6	0.5	9648370	<0.5	<0.5	0.5	9648175
Uranium (U)	ug/g	0.006	0.005	9648370	<0.005	<0.005	0.005	9648175
Vanadium (V)	ug/g	0.07	0.05	9648370	<0.05	<0.05	0.05	9648175
Zinc (Zn)	ug/g	10	2	9648370	<2	<2	2	9648175

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP41			ACUP44		
Sampling Date		2024/09/07 08:45			2024/09/07 08:05		
COC Number		C#1009862-01-01			C#1009862-01-01		
	UNITS	V12A + V12B LABRADOR TEA	RDL	QC Batch	V97A + V97B LABRADOR TEA	RDL	QC Batch
Metals							
Antimony (Sb)	ug/g	<0.05	0.05	9648370	<0.05	0.05	9648175
Arsenic (As)	ug/g	<0.1	0.1	9648370	<0.1	0.1	9648175
Barium (Ba)	ug/g	35.3	0.3	9648370	34.8	0.3	9648175
Beryllium (Be)	ug/g	<0.05	0.05	9648370	<0.05	0.05	9648175
Bismuth (Bi)	ug/g	<0.05	0.05	9648370	<0.05	0.05	9648175
Boron (B)	ug/g	4.2	0.5	9648370	5.2	0.5	9648175
Cadmium (Cd)	ug/g	<0.01	0.01	9648370	<0.01	0.01	9648175
Calcium (Ca)	ug/g	3110	50	9648370	2510	50	9648175
Chromium (Cr)	ug/g	<0.3	0.3	9648370	0.4	0.3	9648175
Cobalt (Co)	ug/g	0.025	0.005	9648370	0.030	0.005	9648175
Copper (Cu)	ug/g	1.6	0.5	9648370	1.5	0.5	9648175
Iron (Fe)	ug/g	204	3	9648370	115	3	9648175
Lead (Pb)	ug/g	0.08	0.03	9648370	<0.03	0.03	9648175
Magnesium (Mg)	ug/g	627	100	9648370	612	100	9648175
Manganese (Mn)	ug/g	476	2	9648370	434	0.3	9648175
Molybdenum (Mo)	ug/g	<0.05	0.05	9648370	0.07	0.05	9648175
Nickel (Ni)	ug/g	0.36	0.05	9648370	0.67	0.05	9648175
Phosphorus (P)	ug/g	648	50	9648370	711	50	9648175
Potassium (K)	ug/g	2030	100	9648370	2360	100	9648175
Selenium (Se)	ug/g	<0.04	0.04	9648370	<0.04	0.04	9648175
Silver (Ag)	ug/g	<0.05	0.05	9648370	<0.05	0.05	9648175
Sodium (Na)	ug/g	<50	50	9648370	<50	50	9648175
Strontium (Sr)	ug/g	12.4	0.5	9648370	9.0	0.5	9648175
Thallium (Tl)	ug/g	0.004	0.003	9648370	0.048	0.003	9648175
Tin (Sn)	ug/g	<0.3	0.3	9648370	<0.3	0.3	9648175
Titanium (Ti)	ug/g	1.8	0.5	9648370	2.2	0.5	9648175
Uranium (U)	ug/g	<0.005	0.005	9648370	<0.005	0.005	9648175
Vanadium (V)	ug/g	0.07	0.05	9648370	0.06	0.05	9648175
Zinc (Zn)	ug/g	10	2	9648370	9	2	9648175

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP47			ACUP50	ACUP52		
Sampling Date		2024/09/07 07:15			2024/09/07 07:15	2024/09/06 15:30		
COC Number		C#1009862-01-01			C#1009862-01-01	C#1009862-01-01		
	UNITS	V9A + V9B LABRADOR TEA	RDL	QC Batch	V9 MIXED BERRY	REF1A+REF1B LABRADOR TEA	RDL	QC Batch
Metals								
Antimony (Sb)	ug/g	<0.05	0.05	9648175	<0.05	<0.05	0.05	9648370
Arsenic (As)	ug/g	<0.1	0.1	9648175	<0.1	<0.1	0.1	9648370
Barium (Ba)	ug/g	44.9	0.3	9648175	1.5	46.3	0.3	9648370
Beryllium (Be)	ug/g	<0.05	0.05	9648175	<0.05	<0.05	0.05	9648370
Bismuth (Bi)	ug/g	<0.05	0.05	9648175	<0.05	<0.05	0.05	9648370
Boron (B)	ug/g	6.0	0.5	9648175	0.9	1.6	0.5	9648370
Cadmium (Cd)	ug/g	<0.01	0.01	9648175	<0.01	<0.01	0.01	9648370
Calcium (Ca)	ug/g	2910	50	9648175	174	2540	50	9648370
Chromium (Cr)	ug/g	<0.3	0.3	9648175	<0.3	0.4	0.3	9648370
Cobalt (Co)	ug/g	0.026	0.005	9648175	<0.005	0.041	0.005	9648370
Copper (Cu)	ug/g	1.4	0.5	9648175	0.8	1.9	0.5	9648370
Iron (Fe)	ug/g	149	3	9648175	10	407	3	9648370
Lead (Pb)	ug/g	<0.03	0.03	9648175	<0.03	<0.03	0.03	9648370
Magnesium (Mg)	ug/g	507	100	9648175	<100	730	100	9648370
Manganese (Mn)	ug/g	678	2	9648175	47.9	493	0.3	9648370
Molybdenum (Mo)	ug/g	<0.05	0.05	9648175	<0.05	<0.05	0.05	9648370
Nickel (Ni)	ug/g	0.28	0.05	9648175	0.06	0.56	0.05	9648370
Phosphorus (P)	ug/g	560	50	9648175	109	714	50	9648370
Potassium (K)	ug/g	1830	100	9648175	851	2560	100	9648370
Selenium (Se)	ug/g	<0.04	0.04	9648175	<0.04	<0.04	0.04	9648370
Silver (Ag)	ug/g	<0.05	0.05	9648175	<0.05	<0.05	0.05	9648370
Sodium (Na)	ug/g	<50	50	9648175	<50	<50	50	9648370
Strontium (Sr)	ug/g	3.5	0.5	9648175	<0.5	5.7	0.5	9648370
Thallium (Tl)	ug/g	0.005	0.003	9648175	<0.003	0.020	0.003	9648370
Tin (Sn)	ug/g	<0.3	0.3	9648175	<0.3	<0.3	0.3	9648370
Titanium (Ti)	ug/g	2.0	0.5	9648175	<0.5	1.3	0.5	9648370
Uranium (U)	ug/g	<0.005	0.005	9648175	<0.005	<0.005	0.005	9648370
Vanadium (V)	ug/g	0.06	0.05	9648175	<0.05	0.06	0.05	9648370
Zinc (Zn)	ug/g	9	2	9648175	<2	9	2	9648370

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP55		ACUP57		ACUP60		
Sampling Date		2024/09/06 15:30		2024/09/06 14:30		2024/09/06 12:45		
COC Number		C#1009862-01-01		C#1009862-01-01		C#1009862-01-01		
	UNITS	REF 1 - MIXED BERRY	RDL	V17A + V17B LABRADOR TEA	RDL	V98 CRANBERRY	RDL	QC Batch
Metals								
Antimony (Sb)	ug/g	<0.05	0.05	<0.05	0.05	<0.05	0.05	9648175
Arsenic (As)	ug/g	<0.1	0.1	<0.1	0.1	<0.1	0.1	9648175
Barium (Ba)	ug/g	2.2	0.3	41.4	0.3	1.3	0.3	9648175
Beryllium (Be)	ug/g	<0.05	0.05	<0.05	0.05	<0.05	0.05	9648175
Bismuth (Bi)	ug/g	<0.05	0.05	<0.05	0.05	<0.05	0.05	9648175
Boron (B)	ug/g	<0.5	0.5	2.7	0.5	0.6	0.5	9648175
Cadmium (Cd)	ug/g	<0.01	0.01	<0.01	0.01	<0.01	0.01	9648175
Calcium (Ca)	ug/g	191	50	2510	50	188	50	9648175
Chromium (Cr)	ug/g	<0.3	0.3	<0.3	0.3	<0.3	0.3	9648175
Cobalt (Co)	ug/g	<0.005	0.005	0.025	0.005	<0.005	0.005	9648175
Copper (Cu)	ug/g	0.6	0.5	1.5	0.5	1.1	0.5	9648175
Iron (Fe)	ug/g	19	3	191	3	11	3	9648175
Lead (Pb)	ug/g	<0.03	0.03	<0.03	0.03	<0.03	0.03	9648175
Magnesium (Mg)	ug/g	<100	100	595	100	<100	100	9648175
Manganese (Mn)	ug/g	46.7	0.3	658	2	23.8	0.3	9648175
Molybdenum (Mo)	ug/g	<0.05	0.05	<0.05	0.05	<0.05	0.05	9648175
Nickel (Ni)	ug/g	0.07	0.05	0.35	0.05	<0.05	0.05	9648175
Phosphorus (P)	ug/g	115	50	578	50	118	50	9648175
Potassium (K)	ug/g	753	100	1920	100	627	100	9648175
Selenium (Se)	ug/g	<0.04	0.04	<0.04	0.04	<0.04	0.04	9648175
Silver (Ag)	ug/g	<0.05	0.05	<0.05	0.05	<0.05	0.05	9648175
Sodium (Na)	ug/g	<50	50	<50	50	<50	50	9648175
Strontium (Sr)	ug/g	0.5	0.5	4.0	0.5	<0.5	0.5	9648175
Thallium (Tl)	ug/g	<0.003	0.003	0.058	0.003	<0.003	0.003	9648175
Tin (Sn)	ug/g	<0.3	0.3	<0.3	0.3	<0.3	0.3	9648175
Titanium (Ti)	ug/g	<0.5	0.5	1.4	0.5	<0.5	0.5	9648175
Uranium (U)	ug/g	<0.005	0.005	<0.005	0.005	<0.005	0.005	9648175
Vanadium (V)	ug/g	<0.05	0.05	<0.05	0.05	<0.05	0.05	9648175
Zinc (Zn)	ug/g	<2	2	10	2	<2	2	9648175

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP61		ACUP64		ACUP66		
Sampling Date		2024/09/06 12:45		2024/09/05 09:30		2024/09/06 11:20		
COC Number		C#1009862-01-01		C#1009862-01-01		C#1009862-01-01		
	UNITS	V98A + V98B LABRADOR TEA	QC Batch	V99 CRANBERRY	RDL	V18A + V18B LABRADOR TEA	RDL	QC Batch
Metals								
Antimony (Sb)	ug/g	<0.05	9648175	<0.05	0.05	<0.05	0.05	9648370
Arsenic (As)	ug/g	<0.1	9648175	<0.1	0.1	<0.1	0.1	9648370
Barium (Ba)	ug/g	43.9	9648175	1.7	0.3	36.6	0.3	9648370
Beryllium (Be)	ug/g	<0.05	9648175	<0.05	0.05	<0.05	0.05	9648370
Bismuth (Bi)	ug/g	<0.05	9648175	<0.05	0.05	<0.05	0.05	9648370
Boron (B)	ug/g	4.9	9648175	0.5	0.5	5.6	0.5	9648370
Cadmium (Cd)	ug/g	<0.01	9648175	<0.01	0.01	<0.01	0.01	9648370
Calcium (Ca)	ug/g	2760	9648175	164	50	2570	50	9648370
Chromium (Cr)	ug/g	<0.3	9648175	<0.3	0.3	<0.3	0.3	9648370
Cobalt (Co)	ug/g	0.021	9648175	<0.005	0.005	0.017	0.005	9648370
Copper (Cu)	ug/g	1.7	9648175	<0.5	0.5	1.8	0.5	9648370
Iron (Fe)	ug/g	147	9648175	5	3	112	3	9648370
Lead (Pb)	ug/g	<0.03	9648175	<0.03	0.03	<0.03	0.03	9648370
Magnesium (Mg)	ug/g	655	9648175	<100	100	638	100	9648370
Manganese (Mn)	ug/g	505	9648175	39.8	0.3	564	2	9648370
Molybdenum (Mo)	ug/g	<0.05	9648175	<0.05	0.05	<0.05	0.05	9648370
Nickel (Ni)	ug/g	0.23	9648175	0.07	0.05	0.25	0.05	9648370
Phosphorus (P)	ug/g	726	9648175	98	50	664	50	9648370
Potassium (K)	ug/g	2210	9648175	858	100	2110	100	9648370
Selenium (Se)	ug/g	<0.04	9648175	<0.04	0.04	<0.04	0.04	9648370
Silver (Ag)	ug/g	<0.05	9648175	<0.05	0.05	<0.05	0.05	9648370
Sodium (Na)	ug/g	<50	9648175	<50	50	<50	50	9648370
Strontium (Sr)	ug/g	4.4	9648175	0.5	0.5	2.3	0.5	9648370
Thallium (Tl)	ug/g	0.024	9648175	<0.003	0.003	<0.003	0.003	9648370
Tin (Sn)	ug/g	<0.3	9648175	<0.3	0.3	<0.3	0.3	9648370
Titanium (Ti)	ug/g	1.9	9648175	<0.5	0.5	1.7	0.5	9648370
Uranium (U)	ug/g	<0.005	9648175	<0.005	0.005	<0.005	0.005	9648370
Vanadium (V)	ug/g	0.06	9648175	<0.05	0.05	0.05	0.05	9648370
Zinc (Zn)	ug/g	9	9648175	<2	2	10	2	9648370

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP68		ACUP69			ACUP71		
Sampling Date		2024/09/06 11:20		2024/09/06 11:20			2024/09/06 09:30		
COC Number		C#1009862-01-01		C#1009862-01-01			C#1009862-01-01		
	UNITS	V18 - MIXED BERRY	QC Batch	V18- BLUE BERRY	RDL	QC Batch	V19A + V19B LABRADOR TEA	RDL	QC Batch
Metals									
Antimony (Sb)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Arsenic (As)	ug/g	<0.1	9648370	<0.1	0.1	9648175	<0.1	0.1	9648370
Barium (Ba)	ug/g	1.6	9648370	2.7	0.3	9648175	37.0	0.3	9648370
Beryllium (Be)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Bismuth (Bi)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Boron (B)	ug/g	0.6	9648370	0.6	0.5	9648175	6.5	0.5	9648370
Cadmium (Cd)	ug/g	<0.01	9648370	<0.01	0.01	9648175	<0.01	0.01	9648370
Calcium (Ca)	ug/g	153	9648370	191	50	9648175	2490	50	9648370
Chromium (Cr)	ug/g	<0.3	9648370	0.4	0.3	9648175	<0.3	0.3	9648370
Cobalt (Co)	ug/g	<0.005	9648370	0.011	0.005	9648175	0.020	0.005	9648370
Copper (Cu)	ug/g	0.7	9648370	7.6	0.5	9648175	1.6	0.5	9648370
Iron (Fe)	ug/g	15	9648370	29	3	9648175	148	3	9648370
Lead (Pb)	ug/g	<0.03	9648370	0.13	0.03	9648175	<0.03	0.03	9648370
Magnesium (Mg)	ug/g	<100	9648370	<100	100	9648175	648	100	9648370
Manganese (Mn)	ug/g	56.4	9648370	105	0.3	9648175	633	2	9648370
Molybdenum (Mo)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Nickel (Ni)	ug/g	0.06	9648370	0.30	0.05	9648175	0.28	0.05	9648370
Phosphorus (P)	ug/g	132	9648370	153	50	9648175	650	50	9648370
Potassium (K)	ug/g	709	9648370	911	100	9648175	2160	100	9648370
Selenium (Se)	ug/g	<0.04	9648370	<0.04	0.04	9648175	<0.04	0.04	9648370
Silver (Ag)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Sodium (Na)	ug/g	<50	9648370	<50	50	9648175	<50	50	9648370
Strontium (Sr)	ug/g	<0.5	9648370	<0.5	0.5	9648175	4.2	0.5	9648370
Thallium (Tl)	ug/g	<0.003	9648370	<0.003	0.003	9648175	<0.003	0.003	9648370
Tin (Sn)	ug/g	<0.3	9648370	<0.3	0.3	9648175	<0.3	0.3	9648370
Titanium (Ti)	ug/g	<0.5	9648370	<0.5	0.5	9648175	1.5	0.5	9648370
Uranium (U)	ug/g	<0.005	9648370	<0.005	0.005	9648175	<0.005	0.005	9648370
Vanadium (V)	ug/g	<0.05	9648370	<0.05	0.05	9648175	0.05	0.05	9648370
Zinc (Zn)	ug/g	<2	9648370	3	2	9648175	9	2	9648370

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP73		ACUP74			ACUP78		
Sampling Date		2024/09/06 09:30		2024/09/06 09:30			2024/09/06 08:00		
COC Number		C#1009862-01-01		C#1009862-01-01			C#1009862-01-01		
	UNITS	V19 - BLUEBERRY	QC Batch	V19 - CRANBERRY	RDL	QC Batch	V11A + V11B LABRADOR TEA	RDL	QC Batch
Metals									
Antimony (Sb)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Arsenic (As)	ug/g	<0.1	9648370	<0.1	0.1	9648175	<0.1	0.1	9648370
Barium (Ba)	ug/g	2.1	9648370	2.0	0.3	9648175	42.1	0.3	9648370
Beryllium (Be)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Bismuth (Bi)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Boron (B)	ug/g	<0.5	9648370	0.7	0.5	9648175	5.1	0.5	9648370
Cadmium (Cd)	ug/g	<0.01	9648370	<0.01	0.01	9648175	<0.01	0.01	9648370
Calcium (Ca)	ug/g	178	9648370	189	50	9648175	2540	50	9648370
Chromium (Cr)	ug/g	<0.3	9648370	<0.3	0.3	9648175	0.3	0.3	9648370
Cobalt (Co)	ug/g	0.008	9648370	<0.005	0.005	9648175	0.046	0.005	9648370
Copper (Cu)	ug/g	0.7	9648370	0.5	0.5	9648175	1.7	0.5	9648370
Iron (Fe)	ug/g	32	9648370	5	3	9648175	346	3	9648370
Lead (Pb)	ug/g	<0.03	9648370	<0.03	0.03	9648175	<0.03	0.03	9648370
Magnesium (Mg)	ug/g	<100	9648370	<100	100	9648175	631	100	9648370
Manganese (Mn)	ug/g	111	9648370	44.4	0.3	9648175	616	2	9648370
Molybdenum (Mo)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Nickel (Ni)	ug/g	0.10	9648370	<0.05	0.05	9648175	0.40	0.05	9648370
Phosphorus (P)	ug/g	160	9648370	102	50	9648175	642	50	9648370
Potassium (K)	ug/g	846	9648370	637	100	9648175	2080	100	9648370
Selenium (Se)	ug/g	<0.04	9648370	<0.04	0.04	9648175	<0.04	0.04	9648370
Silver (Ag)	ug/g	<0.05	9648370	<0.05	0.05	9648175	<0.05	0.05	9648370
Sodium (Na)	ug/g	<50	9648370	<50	50	9648175	<50	50	9648370
Strontium (Sr)	ug/g	<0.5	9648370	<0.5	0.5	9648175	5.3	0.5	9648370
Thallium (Tl)	ug/g	<0.003	9648370	<0.003	0.003	9648175	<0.003	0.003	9648370
Tin (Sn)	ug/g	<0.3	9648370	<0.3	0.3	9648175	<0.3	0.3	9648370
Titanium (Ti)	ug/g	0.6	9648370	<0.5	0.5	9648175	2.6	0.5	9648370
Uranium (U)	ug/g	<0.005	9648370	<0.005	0.005	9648175	<0.005	0.005	9648370
Vanadium (V)	ug/g	<0.05	9648370	<0.05	0.05	9648175	0.10	0.05	9648370
Zinc (Zn)	ug/g	<2	9648370	<2	2	9648175	10	2	9648370

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP80	ACUP81		ACUP83		
Sampling Date		2024/09/06 08:00	2024/09/06 08:00		2024/09/05 13:00		
COC Number		C#1009862-01-01	C#1009862-01-01		C#1009862-01-01		
	UNITS	V11 - MIXED BERRY	V11 - CRANBERRY	RDL	V6A + V6B LABRADOR TEA	RDL	QC Batch
Metals							
Antimony (Sb)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	9648175
Arsenic (As)	ug/g	<0.1	<0.1	0.1	<0.1	0.1	9648175
Barium (Ba)	ug/g	2.6	2.1	0.3	40.5	0.3	9648175
Beryllium (Be)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	9648175
Bismuth (Bi)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	9648175
Boron (B)	ug/g	0.6	0.5	0.5	7.5	0.5	9648175
Cadmium (Cd)	ug/g	<0.01	<0.01	0.01	<0.01	0.01	9648175
Calcium (Ca)	ug/g	223	183	50	2920	50	9648175
Chromium (Cr)	ug/g	<0.3	<0.3	0.3	<0.3	0.3	9648175
Cobalt (Co)	ug/g	<0.005	<0.005	0.005	0.017	0.005	9648175
Copper (Cu)	ug/g	0.6	0.6	0.5	1.5	0.5	9648175
Iron (Fe)	ug/g	32	22	3	87	3	9648175
Lead (Pb)	ug/g	<0.03	<0.03	0.03	<0.03	0.03	9648175
Magnesium (Mg)	ug/g	<100	<100	100	588	100	9648175
Manganese (Mn)	ug/g	123	57.8	0.3	522	2	9648175
Molybdenum (Mo)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	9648175
Nickel (Ni)	ug/g	0.09	0.06	0.05	0.32	0.05	9648175
Phosphorus (P)	ug/g	167	120	50	713	50	9648175
Potassium (K)	ug/g	880	686	100	2250	100	9648175
Selenium (Se)	ug/g	<0.04	<0.04	0.04	<0.04	0.04	9648175
Silver (Ag)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	9648175
Sodium (Na)	ug/g	<50	<50	50	<50	50	9648175
Strontium (Sr)	ug/g	0.7	<0.5	0.5	6.9	0.5	9648175
Thallium (Tl)	ug/g	<0.003	<0.003	0.003	0.021	0.003	9648175
Tin (Sn)	ug/g	<0.3	<0.3	0.3	<0.3	0.3	9648175
Titanium (Ti)	ug/g	<0.5	<0.5	0.5	1.2	0.5	9648175
Uranium (U)	ug/g	<0.005	<0.005	0.005	<0.005	0.005	9648175
Vanadium (V)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	9648175
Zinc (Zn)	ug/g	<2	<2	2	10	2	9648175

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP85		ACUP86	ACUP86		
Sampling Date		2024/09/05 13:00		2024/09/05 11:30	2024/09/05 11:30		
COC Number		C#1009862-01-01		C#1009862-01-01	C#1009862-01-01		
	UNITS	V6 - MIXED BERRY	RDL	V10A + V10B LABRADOR TEA	V10A + V10B LABRADOR TEA Lab-Dup	RDL	QC Batch
Metals							
Antimony (Sb)	ug/g	<0.05	0.05	<0.05	<0.05	0.05	9648370
Arsenic (As)	ug/g	<0.1	0.1	<0.1	<0.1	0.1	9648370
Barium (Ba)	ug/g	1.3	0.3	43.2	43.2	0.3	9648370
Beryllium (Be)	ug/g	<0.05	0.05	<0.05	<0.05	0.05	9648370
Bismuth (Bi)	ug/g	<0.05	0.05	<0.05	<0.05	0.05	9648370
Boron (B)	ug/g	0.6	0.5	3.9	4.1	0.5	9648370
Cadmium (Cd)	ug/g	<0.01	0.01	<0.01	<0.01	0.01	9648370
Calcium (Ca)	ug/g	180	50	2470	2500	50	9648370
Chromium (Cr)	ug/g	<0.3	0.3	0.4	0.5	0.3	9648370
Cobalt (Co)	ug/g	<0.005	0.005	0.023	0.022	0.005	9648370
Copper (Cu)	ug/g	0.9	0.5	1.6	1.7	0.5	9648370
Iron (Fe)	ug/g	5	3	129	134	3	9648370
Lead (Pb)	ug/g	<0.03	0.03	<0.03	<0.03	0.03	9648370
Magnesium (Mg)	ug/g	<100	100	639	639	100	9648370
Manganese (Mn)	ug/g	49.4	0.3	606	605	2	9648370
Molybdenum (Mo)	ug/g	<0.05	0.05	<0.05	<0.05	0.05	9648370
Nickel (Ni)	ug/g	0.07	0.05	0.60	0.63	0.05	9648370
Phosphorus (P)	ug/g	104	50	653	678	50	9648370
Potassium (K)	ug/g	765	100	2210	2260	100	9648370
Selenium (Se)	ug/g	<0.04	0.04	<0.04	<0.04	0.04	9648370
Silver (Ag)	ug/g	<0.05	0.05	<0.05	<0.05	0.05	9648370
Sodium (Na)	ug/g	<50	50	<50	<50	50	9648370
Strontium (Sr)	ug/g	<0.5	0.5	17.2	18.0	0.5	9648370
Thallium (Tl)	ug/g	<0.003	0.003	0.011	0.010	0.003	9648370
Tin (Sn)	ug/g	<0.3	0.3	<0.3	<0.3	0.3	9648370
Titanium (Ti)	ug/g	<0.5	0.5	1.9	1.9	0.5	9648370
Uranium (U)	ug/g	<0.005	0.005	<0.005	<0.005	0.005	9648370
Vanadium (V)	ug/g	<0.05	0.05	0.06	0.06	0.05	9648370
Zinc (Zn)	ug/g	<2	2	10	10	2	9648370

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ICP/MS (TISSUE)

Bureau Veritas ID		ACUP88		
Sampling Date		2024/09/05 11:30		
COC Number		C#1009862-01-01		
	UNITS	V10 CRANBERRY	RDL	QC Batch
Metals				
Antimony (Sb)	ug/g	<0.05	0.05	9648175
Arsenic (As)	ug/g	<0.1	0.1	9648175
Barium (Ba)	ug/g	2.0	0.3	9648175
Beryllium (Be)	ug/g	<0.05	0.05	9648175
Bismuth (Bi)	ug/g	<0.05	0.05	9648175
Boron (B)	ug/g	0.7	0.5	9648175
Cadmium (Cd)	ug/g	<0.01	0.01	9648175
Calcium (Ca)	ug/g	196	50	9648175
Chromium (Cr)	ug/g	<0.3	0.3	9648175
Cobalt (Co)	ug/g	<0.005	0.005	9648175
Copper (Cu)	ug/g	0.6	0.5	9648175
Iron (Fe)	ug/g	35	3	9648175
Lead (Pb)	ug/g	0.10	0.03	9648175
Magnesium (Mg)	ug/g	<100	100	9648175
Manganese (Mn)	ug/g	47.1	0.3	9648175
Molybdenum (Mo)	ug/g	<0.05	0.05	9648175
Nickel (Ni)	ug/g	0.06	0.05	9648175
Phosphorus (P)	ug/g	113	50	9648175
Potassium (K)	ug/g	724	100	9648175
Selenium (Se)	ug/g	<0.04	0.04	9648175
Silver (Ag)	ug/g	<0.05	0.05	9648175
Sodium (Na)	ug/g	<50	50	9648175
Strontium (Sr)	ug/g	1.3	0.5	9648175
Thallium (Tl)	ug/g	<0.003	0.003	9648175
Tin (Sn)	ug/g	<0.3	0.3	9648175
Titanium (Ti)	ug/g	<0.5	0.5	9648175
Uranium (U)	ug/g	<0.005	0.005	9648175
Vanadium (V)	ug/g	<0.05	0.05	9648175
Zinc (Zn)	ug/g	<2	2	9648175

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (TISSUE)

Bureau Veritas ID		ACUP37	ACUP40		ACUP41		
Sampling Date		2024/09/07 10:30	2024/09/07 08:45		2024/09/07 08:45		
COC Number		C#1009862-01-01	C#1009862-01-01		C#1009862-01-01		
	UNITS	V4A + V4B LABRADOR TEA	V12 -MIXED BERRIES	QC Batch	V12A + V12B LABRADOR TEA	RDL	QC Batch
Metals							
Mercury (Hg)	ug/g	<0.01	<0.01	9648415	<0.01	0.01	9648408

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP44	ACUP47	ACUP50	ACUP52		
Sampling Date		2024/09/07 08:05	2024/09/07 07:15	2024/09/07 07:15	2024/09/06 15:30		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	V97A + V97B LABRADOR TEA	V9A + V9B LABRADOR TEA	V9 MIXED BERRY	REF1A+REF1B LABRADOR TEA	RDL	QC Batch
Metals							
Mercury (Hg)	ug/g	<0.01	<0.01	<0.01	<0.01	0.01	9648408

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP55	ACUP57	ACUP60		ACUP61		
Sampling Date		2024/09/06 15:30	2024/09/06 14:30	2024/09/06 12:45		2024/09/06 12:45		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		C#1009862-01-01		
	UNITS	REF 1 - MIXED BERRY	V17A + V17B LABRADOR TEA	V98 CRANBERRY	QC Batch	V98A + V98B LABRADOR TEA	RDL	QC Batch
Metals								
Mercury (Hg)	ug/g	<0.01	<0.01	<0.01	9648408	<0.01	0.01	9648415

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (TISSUE)

Bureau Veritas ID		ACUP64	ACUP66	ACUP68	ACUP69		
Sampling Date		2024/09/05 09:30	2024/09/06 11:20	2024/09/06 11:20	2024/09/06 11:20		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	V99 CRANBERRY	V18A + V18B LABRADOR TEA	V18 - MIXED BERRY	V18- BLUE BERRY	RDL	QC Batch
Metals							
Mercury (Hg)	ug/g	<0.01	<0.01	<0.01	<0.01	0.01	9648408

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP71	ACUP71		ACUP73	ACUP73		
Sampling Date		2024/09/06 09:30	2024/09/06 09:30		2024/09/06 09:30	2024/09/06 09:30		
COC Number		C#1009862-01-01	C#1009862-01-01		C#1009862-01-01	C#1009862-01-01		
	UNITS	V19A + V19B LABRADOR TEA	V19A + V19B LABRADOR TEA Lab-Dup	QC Batch	V19 - BLUEBERRY	V19 - BLUEBERRY Lab-Dup	RDL	QC Batch
Metals								
Mercury (Hg)	ug/g	<0.01	<0.01	9648415	<0.01	<0.01	0.01	9648408

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ACUP74	ACUP78	ACUP80	ACUP81		
Sampling Date		2024/09/06 09:30	2024/09/06 08:00	2024/09/06 08:00	2024/09/06 08:00		
COC Number		C#1009862-01-01	C#1009862-01-01	C#1009862-01-01	C#1009862-01-01		
	UNITS	V19 - CRANBERRY	V11A + V11B LABRADOR TEA	V11 - MIXED BERRY	V11 - CRANBERRY	RDL	QC Batch
Metals							
Mercury (Hg)	ug/g	<0.01	<0.01	<0.01	<0.01	0.01	9648408

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (TISSUE)

Bureau Veritas ID		ACUP83	ACUP85		ACUP86		
Sampling Date		2024/09/05 13:00	2024/09/05 13:00		2024/09/05 11:30		
COC Number		C#1009862-01-01	C#1009862-01-01		C#1009862-01-01		
	UNITS	V6A + V6B LABRADOR TEA	V6 - MIXED BERRY	QC Batch	V10A + V10B LABRADOR TEA	RDL	QC Batch
Metals							
Mercury (Hg)	ug/g	<0.01	<0.01	9648408	<0.01	0.01	9648415

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ACUP88		
Sampling Date		2024/09/05 11:30		
COC Number		C#1009862-01-01		
	UNITS	V10 CRANBERRY	RDL	QC Batch
Metals				
Mercury (Hg)	ug/g	<0.01	0.01	9648408

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP36 **Collected:** 2024/09/07
Sample ID: V4 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP37 **Collected:** 2024/09/07
Sample ID: V4A + V4B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648415	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP37 Dup **Collected:** 2024/09/07
Sample ID: V4A + V4B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP39 **Collected:** 2024/09/07
Sample ID: V12 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP39 Dup **Collected:** 2024/09/07
Sample ID: V12 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu

Bureau Veritas ID: ACUP40 **Collected:** 2024/09/07
Sample ID: V12 -MIXED BERRIES **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648415	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP40 Dup
Sample ID: V12 -MIXED BERRIES
Matrix: Tissue
Collected: 2024/09/07
Shipped:
Received: 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP41
Sample ID: V12A + V12B LABRADOR TEA
Matrix: Tissue
Collected: 2024/09/07
Shipped:
Received: 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP43
Sample ID: V97
Matrix: Soil
Collected: 2024/09/07
Shipped:
Received: 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP44
Sample ID: V97A + V97B LABRADOR TEA
Matrix: Tissue
Collected: 2024/09/07
Shipped:
Received: 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP46
Sample ID: V9
Matrix: Soil
Collected: 2024/09/07
Shipped:
Received: 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP47
Sample ID: V9A + V9B LABRADOR TEA
Matrix: Tissue
Collected: 2024/09/07
Shipped:
Received: 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP47 **Collected:** 2024/09/07
Sample ID: V9A + V9B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP50 **Collected:** 2024/09/07
Sample ID: V9 MIXED BERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP51 **Collected:** 2024/09/06
Sample ID: REF 1 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP51 Dup **Collected:** 2024/09/06
Sample ID: REF 1 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran

Bureau Veritas ID: ACUP52 **Collected:** 2024/09/06
Sample ID: REF1A+REF1B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP55 **Collected:** 2024/09/06
Sample ID: REF 1 - MIXED BERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP57 **Collected:** 2024/09/06
Sample ID: V17A + V17B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP59 **Collected:** 2024/09/06
Sample ID: V98 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP60 **Collected:** 2024/09/06
Sample ID: V98 CRANBERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP61 **Collected:** 2024/09/06
Sample ID: V98A + V98B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648415	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP63 **Collected:** 2024/09/05
Sample ID: V99 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP64 **Collected:** 2024/09/05
Sample ID: V99 CRANBERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP64 **Collected:** 2024/09/05
Sample ID: V99 CRANBERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP65 **Collected:** 2024/09/06
Sample ID: V18 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP66 **Collected:** 2024/09/06
Sample ID: V18A + V18B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP68 **Collected:** 2024/09/06
Sample ID: V18 - MIXED BERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP69 **Collected:** 2024/09/06
Sample ID: V18- BLUE BERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP70 **Collected:** 2024/09/06
Sample ID: V19 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667935	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP70 **Collected:** 2024/09/06
Sample ID: V19 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP71 **Collected:** 2024/09/06
Sample ID: V19A + V19B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648415	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP71 Dup **Collected:** 2024/09/06
Sample ID: V19A + V19B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648415	2024/09/19	2024/09/23	Aswathy Neduveli Suresh

Bureau Veritas ID: ACUP73 **Collected:** 2024/09/06
Sample ID: V19 - BLUEBERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP73 Dup **Collected:** 2024/09/06
Sample ID: V19 - BLUEBERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh

Bureau Veritas ID: ACUP74 **Collected:** 2024/09/06
Sample ID: V19 - CRANBERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP75 **Collected:** 2024/09/05
Sample ID: V10 -1 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP76 **Collected:** 2024/09/05
Sample ID: V10 -2 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP77 **Collected:** 2024/09/06
Sample ID: V11 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP78 **Collected:** 2024/09/06
Sample ID: V11A + V11B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP80 **Collected:** 2024/09/06
Sample ID: V11 - MIXED BERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP81 **Collected:** 2024/09/06
Sample ID: V11 - CRANBERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP81 **Collected:** 2024/09/06
Sample ID: V11 - CRANBERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP82 **Collected:** 2024/09/05
Sample ID: V6 **Shipped:**
Matrix: Soil **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9667295	2024/09/27	2024/09/27	Daniel Teclu
pH CaCl2 EXTRACT	AT	9665014	2024/09/26	2024/09/26	Kien Tran
Total Organic Carbon in Soil	COMB	9666791	N/A	2024/10/01	Rishi Modi

Bureau Veritas ID: ACUP83 **Collected:** 2024/09/05
Sample ID: V6A + V6B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP85 **Collected:** 2024/09/05
Sample ID: V6 - MIXED BERRY **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

Bureau Veritas ID: ACUP86 **Collected:** 2024/09/05
Sample ID: V10A + V10B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648415	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti
Moisture		9648534	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ACUP86 Dup **Collected:** 2024/09/05
Sample ID: V10A + V10B LABRADOR TEA **Shipped:**
Matrix: Tissue **Received:** 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Vegetation by ICPMS	ICP1/MS	9648370	N/A	2024/09/19	Prempal Bhatti

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ACUP88
Sample ID: V10 CRANBERRY
Matrix: Tissue

Collected: 2024/09/05
Shipped:
Received: 2024/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Vegetation by CVAA	CV/AA	9648408	2024/09/19	2024/09/23	Aswathy Neduveli Suresh
Metals in Vegetation by ICPMS	ICP1/MS	9648175	N/A	2024/09/19	Indira HarryPaul
Moisture		9648297	N/A	2024/09/19	Justin Tiburcio

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.6°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9648175	IHP	Matrix Spike [ACUP40-01]	Calcium (Ca)	2024/09/19		103	%	75 - 125
			Magnesium (Mg)	2024/09/19		101	%	75 - 125
			Potassium (K)	2024/09/19		NC	%	75 - 125
			Sodium (Na)	2024/09/19		103	%	75 - 125
			Antimony (Sb)	2024/09/19		96	%	75 - 125
			Arsenic (As)	2024/09/19		96	%	75 - 125
			Barium (Ba)	2024/09/19		98	%	75 - 125
			Beryllium (Be)	2024/09/19		98	%	75 - 125
			Bismuth (Bi)	2024/09/19		101	%	75 - 125
			Boron (B)	2024/09/19		93	%	75 - 125
			Cadmium (Cd)	2024/09/19		94	%	75 - 125
			Chromium (Cr)	2024/09/19		95	%	75 - 125
			Cobalt (Co)	2024/09/19		93	%	75 - 125
			Copper (Cu)	2024/09/19		95	%	75 - 125
			Iron (Fe)	2024/09/19		98	%	75 - 125
			Lead (Pb)	2024/09/19		97	%	75 - 125
			Manganese (Mn)	2024/09/19		NC	%	75 - 125
			Molybdenum (Mo)	2024/09/19		96	%	75 - 125
			Nickel (Ni)	2024/09/19		94	%	75 - 125
			Phosphorus (P)	2024/09/19		NC	%	75 - 125
			Selenium (Se)	2024/09/19		99	%	75 - 125
			Silver (Ag)	2024/09/19		88	%	75 - 125
			Strontium (Sr)	2024/09/19		99	%	75 - 125
			Thallium (Tl)	2024/09/19		93	%	75 - 125
			Tin (Sn)	2024/09/19		93	%	75 - 125
			Titanium (Ti)	2024/09/19		96	%	75 - 125
			Uranium (U)	2024/09/19		99	%	75 - 125
			Vanadium (V)	2024/09/19		95	%	75 - 125
			Zinc (Zn)	2024/09/19		100	%	75 - 125
9648175	IHP	QC Standard	Calcium (Ca)	2024/09/19		96	%	70 - 130
			Magnesium (Mg)	2024/09/19		97	%	70 - 130
			Potassium (K)	2024/09/19		93	%	70 - 130
			Sodium (Na)	2024/09/19		81	%	70 - 130
			Arsenic (As)	2024/09/19		99	%	70 - 130
			Boron (B)	2024/09/19		90	%	70 - 130
			Cadmium (Cd)	2024/09/19		91	%	70 - 130
			Cobalt (Co)	2024/09/19		83	%	70 - 130
			Copper (Cu)	2024/09/19		91	%	70 - 130
			Lead (Pb)	2024/09/19		94	%	70 - 130
			Manganese (Mn)	2024/09/19		99	%	70 - 130
			Nickel (Ni)	2024/09/19		65	%	42 - 78
			Phosphorus (P)	2024/09/19		100	%	70 - 130
			Strontium (Sr)	2024/09/19		99	%	70 - 130
			Thallium (Tl)	2024/09/19		96	%	70 - 130
			Uranium (U)	2024/09/19		33	%	23 - 40
			Vanadium (V)	2024/09/19		39	%	28 - 52
			Zinc (Zn)	2024/09/19		86	%	70 - 130
9648175	IHP	Spiked Blank	Calcium (Ca)	2024/09/19		102	%	80 - 120
			Magnesium (Mg)	2024/09/19		100	%	80 - 120
			Potassium (K)	2024/09/19		103	%	80 - 120
			Sodium (Na)	2024/09/19		102	%	80 - 120
			Antimony (Sb)	2024/09/19		96	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Arsenic (As)	2024/09/19		98	%	80 - 120
			Barium (Ba)	2024/09/19		101	%	80 - 120
			Beryllium (Be)	2024/09/19		102	%	80 - 120
			Bismuth (Bi)	2024/09/19		99	%	80 - 120
			Boron (B)	2024/09/19		97	%	80 - 120
			Cadmium (Cd)	2024/09/19		94	%	80 - 120
			Chromium (Cr)	2024/09/19		95	%	80 - 120
			Cobalt (Co)	2024/09/19		97	%	80 - 120
			Copper (Cu)	2024/09/19		92	%	80 - 120
			Iron (Fe)	2024/09/19		98	%	80 - 120
			Lead (Pb)	2024/09/19		96	%	80 - 120
			Manganese (Mn)	2024/09/19		98	%	80 - 120
			Molybdenum (Mo)	2024/09/19		97	%	80 - 120
			Nickel (Ni)	2024/09/19		94	%	80 - 120
			Phosphorus (P)	2024/09/19		105	%	80 - 120
			Selenium (Se)	2024/09/19		100	%	80 - 120
			Silver (Ag)	2024/09/19		88	%	80 - 120
			Strontium (Sr)	2024/09/19		97	%	80 - 120
			Thallium (Tl)	2024/09/19		94	%	80 - 120
			Tin (Sn)	2024/09/19		96	%	80 - 120
			Titanium (Ti)	2024/09/19		100	%	80 - 120
			Uranium (U)	2024/09/19		98	%	80 - 120
			Vanadium (V)	2024/09/19		95	%	80 - 120
			Zinc (Zn)	2024/09/19		98	%	80 - 120
9648175	IHP	Method Blank	Calcium (Ca)	2024/09/19	<50		ug/g	
			Magnesium (Mg)	2024/09/19	<100		ug/g	
			Potassium (K)	2024/09/19	<100		ug/g	
			Sodium (Na)	2024/09/19	<50		ug/g	
			Antimony (Sb)	2024/09/19	<0.05		ug/g	
			Arsenic (As)	2024/09/19	<0.1		ug/g	
			Barium (Ba)	2024/09/19	<0.3		ug/g	
			Beryllium (Be)	2024/09/19	<0.05		ug/g	
			Bismuth (Bi)	2024/09/19	<0.05		ug/g	
			Boron (B)	2024/09/19	<0.5		ug/g	
			Cadmium (Cd)	2024/09/19	<0.01		ug/g	
			Chromium (Cr)	2024/09/19	<0.3		ug/g	
			Cobalt (Co)	2024/09/19	<0.005		ug/g	
			Copper (Cu)	2024/09/19	<0.5		ug/g	
			Iron (Fe)	2024/09/19	<3		ug/g	
			Lead (Pb)	2024/09/19	<0.03		ug/g	
			Manganese (Mn)	2024/09/19	<0.3		ug/g	
			Molybdenum (Mo)	2024/09/19	<0.05		ug/g	
			Nickel (Ni)	2024/09/19	<0.05		ug/g	
			Phosphorus (P)	2024/09/19	<50		ug/g	
			Selenium (Se)	2024/09/19	<0.04		ug/g	
			Silver (Ag)	2024/09/19	<0.05		ug/g	
			Strontium (Sr)	2024/09/19	<0.5		ug/g	
			Thallium (Tl)	2024/09/19	<0.003		ug/g	
			Tin (Sn)	2024/09/19	<0.3		ug/g	
			Titanium (Ti)	2024/09/19	<0.5		ug/g	
			Uranium (U)	2024/09/19	<0.005		ug/g	
			Vanadium (V)	2024/09/19	<0.05		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Zinc (Zn)	2024/09/19	<2		ug/g	
9648175	IHP	RPD [ACUP40-01]	Calcium (Ca)	2024/09/19	4.4		%	30
			Magnesium (Mg)	2024/09/19	NC		%	30
			Potassium (K)	2024/09/19	0.13		%	30
			Sodium (Na)	2024/09/19	NC		%	30
			Antimony (Sb)	2024/09/19	NC		%	30
			Arsenic (As)	2024/09/19	NC		%	30
			Barium (Ba)	2024/09/19	0.25		%	30
			Beryllium (Be)	2024/09/19	NC		%	30
			Bismuth (Bi)	2024/09/19	NC		%	30
			Boron (B)	2024/09/19	0.84		%	30
			Cadmium (Cd)	2024/09/19	NC		%	30
			Chromium (Cr)	2024/09/19	NC		%	30
			Cobalt (Co)	2024/09/19	NC		%	30
			Copper (Cu)	2024/09/19	6.6		%	30
			Iron (Fe)	2024/09/19	6.0		%	30
			Lead (Pb)	2024/09/19	NC		%	30
			Manganese (Mn)	2024/09/19	4.6		%	30
			Molybdenum (Mo)	2024/09/19	NC		%	30
			Nickel (Ni)	2024/09/19	12		%	30
			Phosphorus (P)	2024/09/19	5.4		%	30
			Selenium (Se)	2024/09/19	NC		%	30
			Silver (Ag)	2024/09/19	NC		%	30
			Strontium (Sr)	2024/09/19	NC		%	30
			Thallium (Tl)	2024/09/19	NC		%	30
			Tin (Sn)	2024/09/19	NC		%	30
			Titanium (Ti)	2024/09/19	NC		%	30
			Uranium (U)	2024/09/19	NC		%	30
			Vanadium (V)	2024/09/19	NC		%	30
			Zinc (Zn)	2024/09/19	NC		%	30
9648297	KA2	QC Standard	Moisture	2024/09/19		109	%	N/A
9648297	KA2	Method Blank	Moisture	2024/09/19	<0.10		g/100g	
9648297	KA2	RPD [ACUP40-01]	Moisture	2024/09/19	0.15		%	20
9648370	PBA	Matrix Spike [ACUP86-01]	Calcium (Ca)	2024/09/19		NC	%	75 - 125
			Magnesium (Mg)	2024/09/19		NC	%	75 - 125
			Potassium (K)	2024/09/19		NC	%	75 - 125
			Sodium (Na)	2024/09/19		98	%	75 - 125
			Antimony (Sb)	2024/09/19		94	%	75 - 125
			Arsenic (As)	2024/09/19		95	%	75 - 125
			Barium (Ba)	2024/09/19		NC	%	75 - 125
			Beryllium (Be)	2024/09/19		93	%	75 - 125
			Bismuth (Bi)	2024/09/19		90	%	75 - 125
			Boron (B)	2024/09/19		91	%	75 - 125
			Cadmium (Cd)	2024/09/19		91	%	75 - 125
			Chromium (Cr)	2024/09/19		94	%	75 - 125
			Cobalt (Co)	2024/09/19		94	%	75 - 125
			Copper (Cu)	2024/09/19		97	%	75 - 125
			Iron (Fe)	2024/09/19		94	%	75 - 125
			Lead (Pb)	2024/09/19		89	%	75 - 125
			Manganese (Mn)	2024/09/19		NC	%	75 - 125
			Molybdenum (Mo)	2024/09/19		97	%	75 - 125
			Nickel (Ni)	2024/09/19		93	%	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Phosphorus (P)	2024/09/19		NC	%	75 - 125
			Selenium (Se)	2024/09/19		97	%	75 - 125
			Silver (Ag)	2024/09/19		92	%	75 - 125
			Strontium (Sr)	2024/09/19		NC	%	75 - 125
			Thallium (Tl)	2024/09/19		90	%	75 - 125
			Tin (Sn)	2024/09/19		87	%	75 - 125
			Titanium (Ti)	2024/09/19		83	%	75 - 125
			Uranium (U)	2024/09/19		88	%	75 - 125
			Vanadium (V)	2024/09/19		94	%	75 - 125
			Zinc (Zn)	2024/09/19		88	%	75 - 125
9648370	PBA	QC Standard	Calcium (Ca)	2024/09/19		99	%	70 - 130
			Magnesium (Mg)	2024/09/19		102	%	70 - 130
			Potassium (K)	2024/09/19		100	%	70 - 130
			Sodium (Na)	2024/09/19		85	%	70 - 130
			Arsenic (As)	2024/09/19		93	%	70 - 130
			Boron (B)	2024/09/19		89	%	70 - 130
			Cadmium (Cd)	2024/09/19		88	%	70 - 130
			Cobalt (Co)	2024/09/19		89	%	70 - 130
			Copper (Cu)	2024/09/19		95	%	70 - 130
			Lead (Pb)	2024/09/19		93	%	70 - 130
			Manganese (Mn)	2024/09/19		93	%	70 - 130
			Nickel (Ni)	2024/09/19		67	%	42 - 78
			Phosphorus (P)	2024/09/19		98	%	70 - 130
			Strontium (Sr)	2024/09/19		94	%	70 - 130
			Thallium (Tl)	2024/09/19		97	%	70 - 130
			Uranium (U)	2024/09/19		38	%	23 - 40
			Vanadium (V)	2024/09/19		39	%	28 - 52
			Zinc (Zn)	2024/09/19		87	%	70 - 130
9648370	PBA	Spiked Blank	Calcium (Ca)	2024/09/19		99	%	80 - 120
			Magnesium (Mg)	2024/09/19		100	%	80 - 120
			Potassium (K)	2024/09/19		101	%	80 - 120
			Sodium (Na)	2024/09/19		102	%	80 - 120
			Antimony (Sb)	2024/09/19		99	%	80 - 120
			Arsenic (As)	2024/09/19		98	%	80 - 120
			Barium (Ba)	2024/09/19		95	%	80 - 120
			Beryllium (Be)	2024/09/19		96	%	80 - 120
			Bismuth (Bi)	2024/09/19		95	%	80 - 120
			Boron (B)	2024/09/19		92	%	80 - 120
			Cadmium (Cd)	2024/09/19		93	%	80 - 120
			Chromium (Cr)	2024/09/19		98	%	80 - 120
			Cobalt (Co)	2024/09/19		98	%	80 - 120
			Copper (Cu)	2024/09/19		98	%	80 - 120
			Iron (Fe)	2024/09/19		99	%	80 - 120
			Lead (Pb)	2024/09/19		94	%	80 - 120
			Manganese (Mn)	2024/09/19		96	%	80 - 120
			Molybdenum (Mo)	2024/09/19		99	%	80 - 120
			Nickel (Ni)	2024/09/19		98	%	80 - 120
			Phosphorus (P)	2024/09/19		105	%	80 - 120
			Selenium (Se)	2024/09/19		99	%	80 - 120
			Silver (Ag)	2024/09/19		95	%	80 - 120
			Strontium (Sr)	2024/09/19		97	%	80 - 120
			Thallium (Tl)	2024/09/19		96	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Tin (Sn)	2024/09/19		96	%	80 - 120
			Titanium (Ti)	2024/09/19		93	%	80 - 120
			Uranium (U)	2024/09/19		95	%	80 - 120
			Vanadium (V)	2024/09/19		99	%	80 - 120
			Zinc (Zn)	2024/09/19		96	%	80 - 120
9648370	PBA	Method Blank	Calcium (Ca)	2024/09/19	<50		ug/g	
			Magnesium (Mg)	2024/09/19	<100		ug/g	
			Potassium (K)	2024/09/19	<100		ug/g	
			Sodium (Na)	2024/09/19	<50		ug/g	
			Antimony (Sb)	2024/09/19	<0.05		ug/g	
			Arsenic (As)	2024/09/19	<0.1		ug/g	
			Barium (Ba)	2024/09/19	<0.3		ug/g	
			Beryllium (Be)	2024/09/19	<0.05		ug/g	
			Bismuth (Bi)	2024/09/19	<0.05		ug/g	
			Boron (B)	2024/09/19	<0.5		ug/g	
			Cadmium (Cd)	2024/09/19	<0.01		ug/g	
			Chromium (Cr)	2024/09/19	<0.3		ug/g	
			Cobalt (Co)	2024/09/19	<0.005		ug/g	
			Copper (Cu)	2024/09/19	<0.5		ug/g	
			Iron (Fe)	2024/09/19	<3		ug/g	
			Lead (Pb)	2024/09/19	<0.03		ug/g	
			Manganese (Mn)	2024/09/19	0.4, RDL=0.3		ug/g	
			Molybdenum (Mo)	2024/09/19	<0.05		ug/g	
			Nickel (Ni)	2024/09/19	<0.05		ug/g	
			Phosphorus (P)	2024/09/19	<50		ug/g	
			Selenium (Se)	2024/09/19	<0.04		ug/g	
			Silver (Ag)	2024/09/19	<0.05		ug/g	
			Strontium (Sr)	2024/09/19	<0.5		ug/g	
			Thallium (Tl)	2024/09/19	<0.003		ug/g	
			Tin (Sn)	2024/09/19	<0.3		ug/g	
			Titanium (Ti)	2024/09/19	<0.5		ug/g	
			Uranium (U)	2024/09/19	<0.005		ug/g	
			Vanadium (V)	2024/09/19	<0.05		ug/g	
			Zinc (Zn)	2024/09/19	<2		ug/g	
9648370	PBA	RPD [ACUP86-01]	Calcium (Ca)	2024/09/19	1.2		%	30
			Magnesium (Mg)	2024/09/19	0.061		%	30
			Potassium (K)	2024/09/19	1.9		%	30
			Sodium (Na)	2024/09/19	NC		%	30
			Antimony (Sb)	2024/09/19	NC		%	30
			Arsenic (As)	2024/09/19	NC		%	30
			Barium (Ba)	2024/09/19	0.020		%	30
			Beryllium (Be)	2024/09/19	NC		%	30
			Bismuth (Bi)	2024/09/19	NC		%	30
			Boron (B)	2024/09/19	5.7		%	30
			Cadmium (Cd)	2024/09/19	NC		%	30
			Chromium (Cr)	2024/09/19	8.7		%	30
			Cobalt (Co)	2024/09/19	2.5		%	30
			Copper (Cu)	2024/09/19	3.2		%	30
			Iron (Fe)	2024/09/19	3.4		%	30
			Lead (Pb)	2024/09/19	NC		%	30
			Manganese (Mn)	2024/09/19	0.11		%	30

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Molybdenum (Mo)	2024/09/19	NC		%	30
			Nickel (Ni)	2024/09/19	4.5		%	30
			Phosphorus (P)	2024/09/19	3.7		%	30
			Selenium (Se)	2024/09/19	NC		%	30
			Silver (Ag)	2024/09/19	NC		%	30
			Strontium (Sr)	2024/09/19	4.5		%	30
			Thallium (Tl)	2024/09/19	5.5		%	30
			Tin (Sn)	2024/09/19	NC		%	30
			Titanium (Ti)	2024/09/19	2.3		%	30
			Uranium (U)	2024/09/19	NC		%	30
			Vanadium (V)	2024/09/19	3.3		%	30
			Zinc (Zn)	2024/09/19	0.086		%	30
9648408	ANF	Matrix Spike [ACUP73-01]	Mercury (Hg)	2024/09/23		101	%	75 - 125
9648408	ANF	QC Standard	Mercury (Hg)	2024/09/23		81	%	70 - 130
9648408	ANF	Method Blank	Mercury (Hg)	2024/09/23	<0.01		ug/g	
9648408	ANF	RPD [ACUP73-01]	Mercury (Hg)	2024/09/23	NC		%	35
9648415	ANF	Matrix Spike [ACUP71-01]	Mercury (Hg)	2024/09/23		88	%	75 - 125
9648415	ANF	QC Standard	Mercury (Hg)	2024/09/23		87	%	70 - 130
9648415	ANF	Method Blank	Mercury (Hg)	2024/09/23	<0.01		ug/g	
9648415	ANF	RPD [ACUP71-01]	Mercury (Hg)	2024/09/23	NC		%	35
9648534	KA2	QC Standard	Moisture	2024/09/19		110	%	N/A
9648534	KA2	Method Blank	Moisture	2024/09/19	<0.10		g/100g	
9648534	KA2	RPD [ACUP37-01]	Moisture	2024/09/19	0.49		%	20
9665014	KIT	Spiked Blank	Available (CaCl2) pH	2024/09/26		101	%	97 - 103
9665014	KIT	RPD [ACUP51-01]	Available (CaCl2) pH	2024/09/26	0.064		%	N/A
9666791	RM3	QC Standard	Total Organic Carbon	2024/10/01		103	%	75 - 125
9666791	RM3	Method Blank	Total Organic Carbon	2024/10/01	<500		mg/kg	
9666791	RM3	RPD	Total Organic Carbon	2024/10/01	29		%	35
9667295	DT1	Matrix Spike [ACUP39-01]	Acid Extractable Aluminum (Al)	2024/09/27		NC	%	75 - 125
			Acid Extractable Antimony (Sb)	2024/09/27		110	%	75 - 125
			Acid Extractable Arsenic (As)	2024/09/27		99	%	75 - 125
			Acid Extractable Barium (Ba)	2024/09/27		104	%	75 - 125
			Acid Extractable Beryllium (Be)	2024/09/27		100	%	75 - 125
			Acid Extractable Bismuth (Bi)	2024/09/27		108	%	75 - 125
			Acid Extractable Boron (B)	2024/09/27		87	%	75 - 125
			Acid Extractable Cadmium (Cd)	2024/09/27		99	%	75 - 125
			Acid Extractable Calcium (Ca)	2024/09/27		NC	%	75 - 125
			Acid Extractable Chromium (Cr)	2024/09/27		103	%	75 - 125
			Acid Extractable Cobalt (Co)	2024/09/27		102	%	75 - 125
			Acid Extractable Copper (Cu)	2024/09/27		102	%	75 - 125
			Acid Extractable Iron (Fe)	2024/09/27		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2024/09/27		99	%	75 - 125
			Acid Extractable Magnesium (Mg)	2024/09/27		NC	%	75 - 125
			Acid Extractable Manganese (Mn)	2024/09/27		NC	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2024/09/27		97	%	75 - 125
			Acid Extractable Nickel (Ni)	2024/09/27		103	%	75 - 125
			Acid Extractable Phosphorus (P)	2024/09/27		102	%	75 - 125
			Acid Extractable Potassium (K)	2024/09/27		93	%	75 - 125
			Acid Extractable Selenium (Se)	2024/09/27		95	%	75 - 125
			Acid Extractable Silver (Ag)	2024/09/27		101	%	75 - 125
			Acid Extractable Sodium (Na)	2024/09/27		101	%	75 - 125
			Acid Extractable Strontium (Sr)	2024/09/27		112	%	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Thallium (Tl)	2024/09/27		100	%	75 - 125
			Acid Extractable Tin (Sn)	2024/09/27		106	%	75 - 125
			Acid Extractable Uranium (U)	2024/09/27		103	%	75 - 125
			Acid Extractable Vanadium (V)	2024/09/27		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2024/09/27		101	%	75 - 125
			Acid Extractable Mercury (Hg)	2024/09/27		103	%	75 - 125
9667295	DT1	Spiked Blank	Acid Extractable Aluminum (Al)	2024/09/27		101	%	80 - 120
			Acid Extractable Antimony (Sb)	2024/09/27		114	%	80 - 120
			Acid Extractable Arsenic (As)	2024/09/27		102	%	80 - 120
			Acid Extractable Barium (Ba)	2024/09/27		102	%	80 - 120
			Acid Extractable Beryllium (Be)	2024/09/27		100	%	80 - 120
			Acid Extractable Bismuth (Bi)	2024/09/27		106	%	80 - 120
			Acid Extractable Boron (B)	2024/09/27		95	%	80 - 120
			Acid Extractable Cadmium (Cd)	2024/09/27		99	%	80 - 120
			Acid Extractable Calcium (Ca)	2024/09/27		106	%	80 - 120
			Acid Extractable Chromium (Cr)	2024/09/27		97	%	80 - 120
			Acid Extractable Cobalt (Co)	2024/09/27		105	%	80 - 120
			Acid Extractable Copper (Cu)	2024/09/27		101	%	80 - 120
			Acid Extractable Iron (Fe)	2024/09/27		104	%	80 - 120
			Acid Extractable Lead (Pb)	2024/09/27		98	%	80 - 120
			Acid Extractable Magnesium (Mg)	2024/09/27		109	%	80 - 120
			Acid Extractable Manganese (Mn)	2024/09/27		103	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2024/09/27		95	%	80 - 120
			Acid Extractable Nickel (Ni)	2024/09/27		105	%	80 - 120
			Acid Extractable Phosphorus (P)	2024/09/27		104	%	80 - 120
			Acid Extractable Potassium (K)	2024/09/27		96	%	80 - 120
			Acid Extractable Selenium (Se)	2024/09/27		98	%	80 - 120
			Acid Extractable Silver (Ag)	2024/09/27		101	%	80 - 120
			Acid Extractable Sodium (Na)	2024/09/27		89	%	80 - 120
			Acid Extractable Strontium (Sr)	2024/09/27		104	%	80 - 120
			Acid Extractable Thallium (Tl)	2024/09/27		100	%	80 - 120
			Acid Extractable Tin (Sn)	2024/09/27		101	%	80 - 120
			Acid Extractable Uranium (U)	2024/09/27		103	%	80 - 120
			Acid Extractable Vanadium (V)	2024/09/27		103	%	80 - 120
			Acid Extractable Zinc (Zn)	2024/09/27		99	%	80 - 120
			Acid Extractable Mercury (Hg)	2024/09/27		105	%	80 - 120
9667295	DT1	Method Blank	Acid Extractable Aluminum (Al)	2024/09/27	<50		ug/g	
			Acid Extractable Antimony (Sb)	2024/09/27	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2024/09/27	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2024/09/27	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2024/09/27	<0.20		ug/g	
			Acid Extractable Bismuth (Bi)	2024/09/27	<1.0		ug/g	
			Acid Extractable Boron (B)	2024/09/27	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2024/09/27	<0.10		ug/g	
			Acid Extractable Calcium (Ca)	2024/09/27	<50		ug/g	
			Acid Extractable Chromium (Cr)	2024/09/27	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2024/09/27	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2024/09/27	<0.50		ug/g	
			Acid Extractable Iron (Fe)	2024/09/27	<50		ug/g	
			Acid Extractable Lead (Pb)	2024/09/27	<1.0		ug/g	
			Acid Extractable Magnesium (Mg)	2024/09/27	<50		ug/g	
			Acid Extractable Manganese (Mn)	2024/09/27	<1.0		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Molybdenum (Mo)	2024/09/27	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2024/09/27	<0.50		ug/g	
			Acid Extractable Phosphorus (P)	2024/09/27	<50		ug/g	
			Acid Extractable Potassium (K)	2024/09/27	<200		ug/g	
			Acid Extractable Selenium (Se)	2024/09/27	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2024/09/27	<0.20		ug/g	
			Acid Extractable Sodium (Na)	2024/09/27	<50		ug/g	
			Acid Extractable Strontium (Sr)	2024/09/27	<1.0		ug/g	
			Acid Extractable Thallium (Tl)	2024/09/27	<0.050		ug/g	
			Acid Extractable Tin (Sn)	2024/09/27	<1.0		ug/g	
			Acid Extractable Uranium (U)	2024/09/27	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2024/09/27	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2024/09/27	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2024/09/27	<0.050		ug/g	
9667295	DT1	RPD [ACUP39-01]	Acid Extractable Aluminum (Al)	2024/09/27	8.3		%	30
			Acid Extractable Antimony (Sb)	2024/09/27	NC		%	30
			Acid Extractable Arsenic (As)	2024/09/27	NC		%	30
			Acid Extractable Barium (Ba)	2024/09/27	8.6		%	30
			Acid Extractable Beryllium (Be)	2024/09/27	NC		%	30
			Acid Extractable Bismuth (Bi)	2024/09/27	NC		%	30
			Acid Extractable Boron (B)	2024/09/27	NC		%	30
			Acid Extractable Cadmium (Cd)	2024/09/27	NC		%	30
			Acid Extractable Calcium (Ca)	2024/09/27	3.8		%	30
			Acid Extractable Chromium (Cr)	2024/09/27	1.8		%	30
			Acid Extractable Cobalt (Co)	2024/09/27	5.0		%	30
			Acid Extractable Copper (Cu)	2024/09/27	0.77		%	30
			Acid Extractable Iron (Fe)	2024/09/27	9.1		%	30
			Acid Extractable Lead (Pb)	2024/09/27	1.9		%	30
			Acid Extractable Magnesium (Mg)	2024/09/27	6.2		%	30
			Acid Extractable Manganese (Mn)	2024/09/27	2.6		%	30
			Acid Extractable Molybdenum (Mo)	2024/09/27	NC		%	30
			Acid Extractable Nickel (Ni)	2024/09/27	0.36		%	30
			Acid Extractable Phosphorus (P)	2024/09/27	0.018		%	30
			Acid Extractable Potassium (K)	2024/09/27	NC		%	30
			Acid Extractable Selenium (Se)	2024/09/27	NC		%	30
			Acid Extractable Silver (Ag)	2024/09/27	NC		%	30
			Acid Extractable Sodium (Na)	2024/09/27	NC		%	30
			Acid Extractable Strontium (Sr)	2024/09/27	2.2		%	30
			Acid Extractable Thallium (Tl)	2024/09/27	NC		%	30
			Acid Extractable Tin (Sn)	2024/09/27	NC		%	30
			Acid Extractable Uranium (U)	2024/09/27	17		%	30
			Acid Extractable Vanadium (V)	2024/09/27	2.1		%	30
			Acid Extractable Zinc (Zn)	2024/09/27	2.3		%	30
			Acid Extractable Mercury (Hg)	2024/09/27	NC		%	30
9667935	DT1	Matrix Spike	Acid Extractable Aluminum (Al)	2024/09/27		NC	%	75 - 125
			Acid Extractable Antimony (Sb)	2024/09/27		100	%	75 - 125
			Acid Extractable Arsenic (As)	2024/09/27		91	%	75 - 125
			Acid Extractable Barium (Ba)	2024/09/27		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2024/09/27		93	%	75 - 125
			Acid Extractable Bismuth (Bi)	2024/09/27		99	%	75 - 125
			Acid Extractable Boron (B)	2024/09/27		85	%	75 - 125
			Acid Extractable Cadmium (Cd)	2024/09/27		93	%	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Calcium (Ca)	2024/09/27		NC	%	75 - 125
			Acid Extractable Chromium (Cr)	2024/09/27		88	%	75 - 125
			Acid Extractable Cobalt (Co)	2024/09/27		92	%	75 - 125
			Acid Extractable Copper (Cu)	2024/09/27		NC	%	75 - 125
			Acid Extractable Iron (Fe)	2024/09/27		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2024/09/27		88	%	75 - 125
			Acid Extractable Magnesium (Mg)	2024/09/27		NC	%	75 - 125
			Acid Extractable Manganese (Mn)	2024/09/27		NC	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2024/09/27		90	%	75 - 125
			Acid Extractable Nickel (Ni)	2024/09/27		90	%	75 - 125
			Acid Extractable Phosphorus (P)	2024/09/27		NC	%	75 - 125
			Acid Extractable Potassium (K)	2024/09/27		NC	%	75 - 125
			Acid Extractable Selenium (Se)	2024/09/27		95	%	75 - 125
			Acid Extractable Silver (Ag)	2024/09/27		94	%	75 - 125
			Acid Extractable Sodium (Na)	2024/09/27		87	%	75 - 125
			Acid Extractable Strontium (Sr)	2024/09/27		NC	%	75 - 125
			Acid Extractable Thallium (Tl)	2024/09/27		91	%	75 - 125
			Acid Extractable Tin (Sn)	2024/09/27		98	%	75 - 125
			Acid Extractable Uranium (U)	2024/09/27		96	%	75 - 125
			Acid Extractable Vanadium (V)	2024/09/27		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2024/09/27		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2024/09/27		97	%	75 - 125
9667935	DT1	Spiked Blank	Acid Extractable Aluminum (Al)	2024/09/27		99	%	80 - 120
			Acid Extractable Antimony (Sb)	2024/09/27		115	%	80 - 120
			Acid Extractable Arsenic (As)	2024/09/27		100	%	80 - 120
			Acid Extractable Barium (Ba)	2024/09/27		100	%	80 - 120
			Acid Extractable Beryllium (Be)	2024/09/27		97	%	80 - 120
			Acid Extractable Bismuth (Bi)	2024/09/27		106	%	80 - 120
			Acid Extractable Boron (B)	2024/09/27		93	%	80 - 120
			Acid Extractable Cadmium (Cd)	2024/09/27		99	%	80 - 120
			Acid Extractable Calcium (Ca)	2024/09/27		106	%	80 - 120
			Acid Extractable Chromium (Cr)	2024/09/27		95	%	80 - 120
			Acid Extractable Cobalt (Co)	2024/09/27		100	%	80 - 120
			Acid Extractable Copper (Cu)	2024/09/27		99	%	80 - 120
			Acid Extractable Iron (Fe)	2024/09/27		98	%	80 - 120
			Acid Extractable Lead (Pb)	2024/09/27		97	%	80 - 120
			Acid Extractable Magnesium (Mg)	2024/09/27		98	%	80 - 120
			Acid Extractable Manganese (Mn)	2024/09/27		97	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2024/09/27		97	%	80 - 120
			Acid Extractable Nickel (Ni)	2024/09/27		101	%	80 - 120
			Acid Extractable Phosphorus (P)	2024/09/27		99	%	80 - 120
			Acid Extractable Potassium (K)	2024/09/27		91	%	80 - 120
			Acid Extractable Selenium (Se)	2024/09/27		98	%	80 - 120
			Acid Extractable Silver (Ag)	2024/09/27		99	%	80 - 120
			Acid Extractable Sodium (Na)	2024/09/27		85	%	80 - 120
			Acid Extractable Strontium (Sr)	2024/09/27		103	%	80 - 120
			Acid Extractable Thallium (Tl)	2024/09/27		98	%	80 - 120
			Acid Extractable Tin (Sn)	2024/09/27		104	%	80 - 120
			Acid Extractable Uranium (U)	2024/09/27		102	%	80 - 120
			Acid Extractable Vanadium (V)	2024/09/27		103	%	80 - 120
			Acid Extractable Zinc (Zn)	2024/09/27		100	%	80 - 120
			Acid Extractable Mercury (Hg)	2024/09/27		99	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9667935	DT1	Method Blank	Acid Extractable Aluminum (Al)	2024/09/27	<50		ug/g	
			Acid Extractable Antimony (Sb)	2024/09/27	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2024/09/27	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2024/09/27	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2024/09/27	<0.20		ug/g	
			Acid Extractable Bismuth (Bi)	2024/09/27	<1.0		ug/g	
			Acid Extractable Boron (B)	2024/09/27	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2024/09/27	<0.10		ug/g	
			Acid Extractable Calcium (Ca)	2024/09/27	<50		ug/g	
			Acid Extractable Chromium (Cr)	2024/09/27	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2024/09/27	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2024/09/27	<0.50		ug/g	
			Acid Extractable Iron (Fe)	2024/09/27	<50		ug/g	
			Acid Extractable Lead (Pb)	2024/09/27	<1.0		ug/g	
			Acid Extractable Magnesium (Mg)	2024/09/27	<50		ug/g	
			Acid Extractable Manganese (Mn)	2024/09/27	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2024/09/27	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2024/09/27	<0.50		ug/g	
			Acid Extractable Phosphorus (P)	2024/09/27	<50		ug/g	
			Acid Extractable Potassium (K)	2024/09/27	<200		ug/g	
			Acid Extractable Selenium (Se)	2024/09/27	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2024/09/27	<0.20		ug/g	
			Acid Extractable Sodium (Na)	2024/09/27	<50		ug/g	
			Acid Extractable Strontium (Sr)	2024/09/27	<1.0		ug/g	
			Acid Extractable Thallium (Tl)	2024/09/27	<0.050		ug/g	
			Acid Extractable Tin (Sn)	2024/09/27	<1.0		ug/g	
			Acid Extractable Uranium (U)	2024/09/27	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2024/09/27	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2024/09/27	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2024/09/27	<0.050		ug/g	
9667935	DT1	RPD	Acid Extractable Antimony (Sb)	2024/09/27	NC		%	30
			Acid Extractable Arsenic (As)	2024/09/27	1.2		%	30
			Acid Extractable Barium (Ba)	2024/09/27	0.024		%	30
			Acid Extractable Beryllium (Be)	2024/09/27	10		%	30
			Acid Extractable Boron (B)	2024/09/27	1.2		%	30
			Acid Extractable Cadmium (Cd)	2024/09/27	NC		%	30
			Acid Extractable Chromium (Cr)	2024/09/27	2.4		%	30
			Acid Extractable Cobalt (Co)	2024/09/27	4.0		%	30
			Acid Extractable Copper (Cu)	2024/09/27	0.087		%	30
			Acid Extractable Lead (Pb)	2024/09/27	2.1		%	30
			Acid Extractable Molybdenum (Mo)	2024/09/27	NC		%	30
			Acid Extractable Nickel (Ni)	2024/09/27	2.6		%	30
			Acid Extractable Selenium (Se)	2024/09/27	NC		%	30
			Acid Extractable Silver (Ag)	2024/09/27	NC		%	30
			Acid Extractable Thallium (Tl)	2024/09/27	2.5		%	30
			Acid Extractable Uranium (U)	2024/09/27	1.1		%	30
			Acid Extractable Vanadium (V)	2024/09/27	2.8		%	30
			Acid Extractable Zinc (Zn)	2024/09/27	2.2		%	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Mercury (Hg)	2024/09/27	NC		%	30

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#2292 WSP Canada Inc.	Company Name:	WSP	Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #: 1009862
Attention:	Accounts Payable	Attention:	Sharon Guin	P.O. #:			
Address:	100 Scotia Crt Whitby ON L1N 8Y6	Address:		Project:	CA0003092.5894	COC #:	Project Manager:
Tel:	(905) 723-2727 Fax: (905) 723-2182	Tel:	Fax:	Project Name:		C#1009862-01-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	sharon.guin@wsp.com	Site #:			
				Sampled By:	G.Govers & B. Ryan.		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Mercury in Vegetation by CVAA	Metals in Vegetation by ICPMS	Acid Extractable Metals by ICPMS	pH CaCl2 EXTRACT	Total Organic Carbon in Soil	Mercury in Tissue by CVAA	Metals in Tissue by ICPMS	Methyl Mercury in Tissue by GC - Wet Wt	Percent Lipid Content	Moisture	# of Bottles or Bags	Comments
1	V4	19U 0643696 5861701	2024/09/07	10:30	Soil			✓	✓	✓						1	jar
2	V4a + V4b Labrador Tea	19U 0643696 5861701	2024/09/07	10:30	leaf tissue	✓	✓								✓	2	bags.
3	V12	19U 0632786 5862786	2024/09/07	08:45	Soil			✓	✓	✓						1	jar
4	V12 - mixed berries	19U 0632786 5862786	2024/09/07	08:45	Berry Tissue	✓	✓								✓	1	bag
5	V12a + V12b Labrador Tea	19U 0632786 5862786	2024/09/07	08:45	Leaf Tissue	✓	✓								✓	2	bags
6	V97	19U 0630658 5865149	2024/09/07	08:05	Soil			✓	✓	✓						1	jar.
7	V97a + V97b Labrador Tea.	19U 0630658 5865149	2024/09/07	08:05	Leaf Tissue	✓	✓								✓	2	bags.
8	V9	19U 0632404 5863793	2024/09/07	07:15	Soil			✓	✓	✓						1	jar
9	V9a + V9b Labrador Tea	19U 0632404 5863793	2024/09/07	07:15	leaf tissue	✓	✓								✓	2	bags
10	V9 - mixed berry	19U 0632404 5863793	2024/09/07	07:15	Berry Tissue	✓	✓								✓	1	bag.

BEDF:2024-09-666

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Matthew Geese	09/12/24		A Walter	24/09/12	9:50	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3.1, 6.8, 7.0	Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

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CHAIN OF CUSTODY RECORD

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Company Name:	#2292 WSP Canada Inc.	Company Name:	WSP.	Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Sharon Guin	P.O. #:			1009862
Address:	100 Scotia Crt Whitby ON L1N 8Y6	Address:		Project:	CA0003092.5894	COC #:	Project Manager:
Tel:	(905) 723-2727 Fax: (905) 723-2182	Tel:	Fax:	Project Name:		C#1009862-02-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	sharon.guin@wsp.com	Site #:			
				Sampled By:	G.Govers J.B. Ryan.		

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Special Instructions

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Job Specific Rush TAT (if applies to entire submission) ☐
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Mercury in Vegetation by CVAA	Metals in Vegetation by ICPMS	Acid Extractable Metals by ICPMS	pH CaCl2 EXTRACT	Total Organic Carbon in Soil	Mercury in Tissue by CVAA	Metals in Tissue by ICPMS	Methyl Mercury in Tissue by GC - Wet Wt	Percent Lipid Content	Moisture	# of Bottles or Jars	Comments
1	REF-1	19V 0650621 5969794	2024/09/06	15:30	Soil				✓	✓	✓						1	jar
2	Ref1a+Ref1b Labrador Tea.	19V 0650621 5869794	2024/09/06	15:30	leaf tissue		✓	✓								✓	2	bags
3	Ref1 - mixed berry	19V 0650621 5869794	2024/09/06	15:30	berry tissue		✓	✓								✓	1	bag.
4	V17	19V 0641802 5859898	2024/09/06	14:30	Soil				✓	✓	✓						1	jar
5	V17a + V17b Labrador Tea.	19V 0641802 5859898	2024/09/06	14:30	leaf tissue		✓	✓								✓	2	bags.
6	V98	19V 0641638 5857483	2024/09/06	12:45	Soil				✓	✓	✓						1	jar
7	V98 cranberry	19V 0641638 5857483	2024/09/06	12:45	Berry Tissue		✓	✓								✓	1	bag.
8	V98a + V98b Labrador Tea	19V 0641638 5857483	2024/09/06	12:45	Leaf tissue		✓	✓								✓	2	bags.
9	V99	19V 0634291 5860267	2024/09/05	09:30	Soil				✓	✓	✓						1	jar
10	V99-cranberry	19V 0634291 5860267	2024/09/05	09:30	Berry Tissue		✓	✓								✓	1	bag.

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	24/12/24			24109/12	9:50	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3.1 6.8 7.0	Present		
		Intact		

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CHAIN OF CUSTODY RECORD

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Company Name:	#2292 WSP Canada Inc.	Company Name:	WSP	Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Sharon Guin	P.O. #:			1009862
Address:	100 Scotia Crt Whitby ON L1N 8Y6	Address:		Project:	CA0003092.5894	COC #:	Project Manager:
Tel:	(905) 723-2727 Fax: (905) 723-2182	Tel:	Fax:	Project Name:		C#1009862-03-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	sharon.guin@wsp.com	Site #:			
				Sampled By:	G. Gucci & B. Ryan		

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Field Filtered (please circle): Metals / Hg / Cr VI

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Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Mercury in Vegetation by CVAA	Metals in Vegetation by ICPMS	Acid Extractable Metals by ICPMS	pH CaCl2 EXTRACT	Total Organic Carbon in Soil	Mercury in Tissue by CVAA	Metals in Tissue by ICPMS	Methyl Mercury in Tissue by GC - Wet Wt	Percent Lipid Content	Moisture	# of Bottles / # of bags	Comments
1	V18	19U 0643998 5857488	2024/09/06	11:20	Soil			✓	✓	✓						1	jar.
2	V18a + V18b Labrador Tea	19U 0643998 5857488	2024/09/06	11:20	leaf tissue	✓	✓								✓	2	bags
3	V18-mixed berry	19U 0643998 5857488	2024/09/06	11:20	berry tissue	✓	✓								✓	1	bag
4	V18-blueberry	19U 0643998 5857488	2024/09/06	11:20	berry tissue	✓	✓								✓	1	bag.
5	V19	19U 0642699 5859465	2024/09/06	09:30	Soil			✓	✓	✓						1	jar
6	V19a + V19b Labrador Tea	19U 0642699 5859465	2024/09/06	09:30	leaf tissue	✓	✓								✓	2	bags
7	V19-blueberry	19U 0642699 5859465	2024/09/06	09:30	berry tissue	✓	✓								✓	1	bag
8	V19-cranberry	19U 0642699 5859465	2024/09/06	09:30	berry tissue	✓	✓								✓	1	bag.
9	V10-1	19U 0636164 5858816	2024/09/05	11:30	Soil			✓	✓	✓						1	jar - with extra 8-9 on Pg 4 of 4
10	V10-2	19U 0636164 5858816	2024/09/05	11:30	Soil			✓	✓	✓						1	jar "

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
		09/12/24		24/09/12	9:50	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3.1 6.8 7.0	Present		
		Intact		

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Email:	CAPayablesInvoice@wsp.com	Email:	sharon.guin@wsp.com	Site #:			
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1	V11	19V 0644222 5862729	2024/09/06	08:00	Soil				✓	✓	✓						1	jar.
2	V11a + V11b Labrador tea.	19V 0644222 5862729	2024/09/06	08:00	leaf tissue		✓	✓								✓	2	bags
3	V11-mixed berry	19V 0644222 5862729	2024/09/06	08:00	berry tissue		✓	✓								✓	1	bag
4	V11-cranberry	19V 0644222 5862729	2024/09/06	08:00	berry tissue		✓	✓								✓	1	bag.
5	V6	19V 0633539 5857564	2024/09/05	13:00	Soil				✓	✓	✓						1	jar.
6	V6a + V6b Labrador Tea	19V 0633539 5857564	2024/09/05	13:00	leaf tissue		✓	✓								✓	2	bags
7	V6-mixed berry	19V 0633539 5857564	2024/09/05	13:00	berry tissue		✓	✓								✓	1	bag.
8	V10a + V10b Labrador tea	19V 0636164 5858816	2024/09/05	11:30	leaf tissue		✓	✓								✓	1	bag - with V10-1 & V10-2 on pg 3 of 4
9	V10-cranberry	19V 0636164 5858816	2024/09/05	11:30	berry tissue		✓	✓								✓	1	bag "
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
	09/11/24			24/09/12	9:50		Time Sensitive	Temperature (°C) on Recei 3.1 6.8, 7.0	Custody Seal Present / Intact	Yes / No

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White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

SEP 12 2024

Your Project #: CA0003092.5894
Your C.O.C. #: N/A

Attention: Sharon Guin

WSP Canada Inc.
100 Scotia Crt
Whitby, ON
CANADA L1N 8Y6

Report Date: 2024/10/15
Report #: R8362873
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4T8702
Received: 2024/09/24, 09:17

Sample Matrix: Tissue
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Mercury in Tissue by CVAA	13	N/A	2024/10/02	CAM SOP-0453	Health Canada Method
Metals in Tissue by ICPMS	13	N/A	2024/09/30	CAM SOP-00447	EPA 6020B m/200.3 m
Methyl Mercury in Tissue by GC - Wet Wt (1)	13	2024/10/04	2024/10/12	BBY7SOP-00030	EPA 1630 m
Moisture in Tissue-Freeze Drying (1, 2)	13	2024/10/04	2024/10/04	BBY7SOP-00021	BCMOE BCLM Aug 2014
Moisture	13	N/A	2024/09/19	CAM SOP-00715	AOAC\ADPI methods

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way , Burnaby, BC, V5G 1K5
(2) Offsite analysis requires that subcontracted moisture be reported.

Your Project #: CA0003092.5894
Your C.O.C. #: N/A

Attention: Sharon Guin

WSP Canada Inc.
100 Scotia Crt
Whitby, ON
CANADA L1N 8Y6

Report Date: 2024/10/15
Report #: R8362873
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4T8702
Received: 2024/09/24, 09:17

Encryption Key



Ankita Bhalla
Project Manager
16 Oct 2024 09:26:09

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4T8702
Report Date: 2024/10/15

WSP Canada Inc.
Client Project #: CA0003092.5894
Sampler Initials: BR

RESULTS OF ANALYSES OF TISSUE

Bureau Veritas ID		ADUC47			ADUC47			ADUC48	ADUC49		
Sampling Date		2024/08/16			2024/08/16			2024/08/16	2024/08/16		
COC Number		N/A			N/A			N/A	N/A		
	UNITS	LT01	RDL	QC Batch	LT01 Lab-Dup	RDL	QC Batch	LT02	LT03	RDL	QC Batch
Nutritional Parameters											
Moisture	g/100g	73.29	0.10	9668351				72.95	75.16	0.10	9668351
PHYSICAL PROPERTIES											
Sample Weight (as received)	%	0.28	N/A	9702898	0.28	N/A	9702898	0.32	0.32	N/A	9702898
Moisture-Subcontracted	%	72	0.30	9702898	72	0.30	9702898	71	73	0.30	9702898

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas ID		ADUC50	ADUC51	ADUC52	ADUC53	ADUC54	ADUC55	ADUC56		
Sampling Date		2024/08/16	2024/08/16	2024/08/16	2024/08/16	2024/08/26	2024/08/26	2024/08/26		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	LT04	LT05	LT06	LT07	LT08	LT09	LT10	RDL	QC Batch
Nutritional Parameters										
Moisture	g/100g	73.35	77.02	76.08	77.21	75.83	75.06	72.57	0.10	9668351
PHYSICAL PROPERTIES										
Sample Weight (as received)	%	0.34	0.30	0.33	0.26	0.24	0.25	0.35	N/A	9702898
Moisture-Subcontracted	%	71	76	76	77	74	75	70	0.30	9702898

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		ADUC57	ADUC58	ADUC59		
Sampling Date		2024/08/26	2024/08/26	2024/08/26		
COC Number		N/A	N/A	N/A		
	UNITS	LT11	LT12	NP01	RDL	QC Batch
Nutritional Parameters						
Moisture	g/100g	74.22	77.08	76.45	0.10	9668351
PHYSICAL PROPERTIES						
Sample Weight (as received)	%	0.26	0.21	0.29	N/A	9702898
Moisture-Subcontracted	%	73	77	75	0.30	9702898

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4T8702
Report Date: 2024/10/15

WSP Canada Inc.
Client Project #: CA0003092.5894
Sampler Initials: BR

MERCURY BY COLD VAPOUR AA (TISSUE)

Bureau Veritas ID		ADUC47	ADUC47	ADUC48	ADUC49	ADUC50	ADUC51	ADUC52		
Sampling Date		2024/08/16	2024/08/16	2024/08/16	2024/08/16	2024/08/16	2024/08/16	2024/08/16		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	LT01	LT01 Lab-Dup	LT02	LT03	LT04	LT05	LT06	RDL	QC Batch
ELEMENTS										
Total (Wet Wt) Methyl Mercury	ng/g	350 (1)	350	270	140	120	160	230	1.0	9702897

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Matrix spike exceeds acceptance limits due to probable matrix interference.

Bureau Veritas ID		ADUC53	ADUC54	ADUC55	ADUC56	ADUC57	ADUC58	ADUC59		
Sampling Date		2024/08/16	2024/08/26	2024/08/26	2024/08/26	2024/08/26	2024/08/26	2024/08/26		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	LT07	LT08	LT09	LT10	LT11	LT12	NP01	RDL	QC Batch
ELEMENTS										
Total (Wet Wt) Methyl Mercury	ng/g	140	120	170	900	1100	110	850	1.0	9702897

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (TISSUE)

Bureau Veritas ID		ADUC47			ADUC47			ADUC48	ADUC49		
Sampling Date		2024/08/16			2024/08/16			2024/08/16	2024/08/16		
COC Number		N/A			N/A			N/A	N/A		
	UNITS	LT01	RDL	QC Batch	LT01 Lab-Dup	RDL	QC Batch	LT02	LT03	RDL	QC Batch
Metals											
Mercury (Hg)	ug/g	0.28	0.005	9670949	0.28	0.005	9670949	0.19	0.12	0.005	9670949
Arsenic (As)	ug/g	<0.1	0.1	9670910				<0.1	<0.1	0.1	9670910
Antimony (Sb)	ug/g	<0.05	0.05	9670910				<0.05	<0.05	0.05	9670910
Barium (Ba)	ug/g	<0.3	0.3	9670910				<0.3	<0.3	0.3	9670910
Beryllium (Be)	ug/g	<0.05	0.05	9670910				<0.05	<0.05	0.05	9670910
Bismuth (Bi)	ug/g	<0.05	0.05	9670910				<0.05	<0.05	0.05	9670910
Boron (B)	ug/g	<0.5	0.5	9670910				<0.5	<0.5	0.5	9670910
Cadmium (Cd)	ug/g	<0.01	0.01	9670910				<0.01	<0.01	0.01	9670910
Calcium (Ca)	ug/g	69	50	9670910				86	180	50	9670910
Cesium (Cs)	ug/g	0.043	0.005	9670910				0.049	0.039	0.005	9670910
Chromium (Cr)	ug/g	<0.3	0.3	9670910				<0.3	<0.3	0.3	9670910
Cobalt (Co)	ug/g	<0.005	0.005	9670910				<0.005	<0.005	0.005	9670910
Copper (Cu)	ug/g	<0.5	0.5	9670910				<0.5	<0.5	0.5	9670910
Iron (Fe)	ug/g	19	3	9670910				4	5	3	9670910
Lead (Pb)	ug/g	<0.03	0.03	9670910				<0.03	<0.03	0.03	9670910
Magnesium (Mg)	ug/g	280	100	9670910				280	290	100	9670910
Manganese (Mn)	ug/g	<0.3	0.3	9670910				<0.3	<0.3	0.3	9670910
Molybdenum (Mo)	ug/g	<0.05	0.05	9670910				<0.05	<0.05	0.05	9670910
Nickel (Ni)	ug/g	<0.05	0.05	9670910				<0.05	<0.05	0.05	9670910
Phosphorus (P)	ug/g	2500	300	9670910				2500	2700	300	9670910
Potassium (K)	ug/g	4400	100	9670910				4300	4700	100	9670910
Selenium (Se)	ug/g	0.35	0.04	9670910				0.27	0.32	0.04	9670910
Silver (Ag)	ug/g	<0.05	0.05	9670910				<0.05	<0.05	0.05	9670910
Sodium (Na)	ug/g	260	50	9670910				250	290	50	9670910
Strontium (Sr)	ug/g	<0.5	0.5	9670910				<0.5	<0.5	0.5	9670910
Thallium (Tl)	ug/g	0.006	0.003	9670910				0.006	0.006	0.003	9670910
Tin (Sn)	ug/g	<0.3	0.3	9670910				<0.3	<0.3	0.3	9670910
Titanium (Ti)	ug/g	1.3	0.5	9670910				1.3	1.4	0.5	9670910
Uranium (U)	ug/g	<0.005	0.005	9670910				<0.005	0.007	0.005	9670910
Vanadium (V)	ug/g	<0.05	0.05	9670910				<0.05	<0.05	0.05	9670910
Zinc (Zn)	ug/g	3	2	9670910				3	4	2	9670910

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (TISSUE)

Bureau Veritas ID		ADUC50	ADUC51	ADUC52	ADUC53	ADUC54	ADUC55		
Sampling Date		2024/08/16	2024/08/16	2024/08/16	2024/08/16	2024/08/26	2024/08/26		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	LT04	LT05	LT06	LT07	LT08	LT09	RDL	QC Batch
Metals									
Mercury (Hg)	ug/g	0.099	0.11	0.20	0.13	0.096	0.15	0.005	9670949
Arsenic (As)	ug/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	9670910
Antimony (Sb)	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	9670910
Barium (Ba)	ug/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	9670910
Beryllium (Be)	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	9670910
Bismuth (Bi)	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	9670910
Boron (B)	ug/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	9670910
Cadmium (Cd)	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	9670910
Calcium (Ca)	ug/g	120	360	1500	1400	280	120	50	9670910
Cesium (Cs)	ug/g	0.041	0.027	0.038	0.040	0.035	0.035	0.005	9670910
Chromium (Cr)	ug/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	9670910
Cobalt (Co)	ug/g	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	9670910
Copper (Cu)	ug/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	9670910
Iron (Fe)	ug/g	5	5	9	5	4	3	3	9670910
Lead (Pb)	ug/g	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	9670910
Magnesium (Mg)	ug/g	290	260	320	300	290	280	100	9670910
Manganese (Mn)	ug/g	<0.3	<0.3	0.6	0.5	<0.3	<0.3	0.3	9670910
Molybdenum (Mo)	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	9670910
Nickel (Ni)	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	9670910
Phosphorus (P)	ug/g	2600	2400	3200	3000	2600	2500	300	9670910
Potassium (K)	ug/g	4400	4200	4700	4600	4600	4500	100	9670910
Selenium (Se)	ug/g	0.33	0.32	0.34	0.33	0.37	0.32	0.04	9670910
Silver (Ag)	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	9670910
Sodium (Na)	ug/g	270	310	400	320	290	270	50	9670910
Strontium (Sr)	ug/g	<0.5	<0.5	0.6	0.7	<0.5	<0.5	0.5	9670910
Thallium (Tl)	ug/g	0.007	0.003	0.006	0.010	0.004	0.004	0.003	9670910
Tin (Sn)	ug/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	9670910
Titanium (Ti)	ug/g	1.3	1.3	1.7	1.6	1.4	1.2	0.5	9670910
Uranium (U)	ug/g	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	0.005	9670910
Vanadium (V)	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	9670910
Zinc (Zn)	ug/g	4	4	6	4	5	4	2	9670910

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (TISSUE)

Bureau Veritas ID		ADUC56	ADUC57		ADUC58		ADUC59		
Sampling Date		2024/08/26	2024/08/26		2024/08/26		2024/08/26		
COC Number		N/A	N/A		N/A		N/A		
	UNITS	LT10	LT11	RDL	LT12	RDL	NP01	RDL	QC Batch
Metals									
Mercury (Hg)	ug/g	0.80	0.96	0.01	0.090	0.005	0.75	0.01	9670949
Arsenic (As)	ug/g	<0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	9670910
Antimony (Sb)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	9670910
Barium (Ba)	ug/g	<0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	9670910
Beryllium (Be)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	9670910
Bismuth (Bi)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	9670910
Boron (B)	ug/g	<0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	9670910
Cadmium (Cd)	ug/g	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	9670910
Calcium (Ca)	ug/g	500	54	50	590	50	440	50	9670910
Cesium (Cs)	ug/g	0.058	0.039	0.005	0.028	0.005	0.047	0.005	9670910
Chromium (Cr)	ug/g	<0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	9670910
Cobalt (Co)	ug/g	<0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	9670910
Copper (Cu)	ug/g	0.6	<0.5	0.5	<0.5	0.5	<0.5	0.5	9670910
Iron (Fe)	ug/g	5	5	3	5	3	<3	3	9670910
Lead (Pb)	ug/g	<0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	9670910
Magnesium (Mg)	ug/g	260	260	100	290	100	310	100	9670910
Manganese (Mn)	ug/g	<0.3	<0.3	0.3	0.7	0.3	0.3	0.3	9670910
Molybdenum (Mo)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	9670910
Nickel (Ni)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	9670910
Phosphorus (P)	ug/g	2500	2300	300	2700	300	2500	300	9670910
Potassium (K)	ug/g	4100	4100	100	4500	100	4300	100	9670910
Selenium (Se)	ug/g	0.25	0.39	0.04	0.31	0.04	0.27	0.04	9670910
Silver (Ag)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	9670910
Sodium (Na)	ug/g	290	300	50	320	50	300	50	9670910
Strontium (Sr)	ug/g	<0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	9670910
Thallium (Tl)	ug/g	0.005	0.004	0.003	0.005	0.003	0.005	0.003	9670910
Tin (Sn)	ug/g	<0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	9670910
Titanium (Ti)	ug/g	1.3	1.3	0.5	1.5	0.5	1.3	0.5	9670910
Uranium (U)	ug/g	<0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	9670910
Vanadium (V)	ug/g	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	9670910
Zinc (Zn)	ug/g	4	3	2	5	2	4	2	9670910

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QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ADUC47 **Collected:** 2024/08/16
Sample ID: LT01 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC47 Dup **Collected:** 2024/08/16
Sample ID: LT01 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda

Bureau Veritas ID: ADUC48 **Collected:** 2024/08/16
Sample ID: LT02 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC49 **Collected:** 2024/08/16
Sample ID: LT03 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC50 **Collected:** 2024/08/16
Sample ID: LT04 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ADUC50 **Collected:** 2024/08/16
Sample ID: LT04 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC51 **Collected:** 2024/08/16
Sample ID: LT05 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC52 **Collected:** 2024/08/16
Sample ID: LT06 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC53 **Collected:** 2024/08/16
Sample ID: LT07 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC54 **Collected:** 2024/08/26
Sample ID: LT08 **Shipped:**
Matrix: Tissue **Received:** 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ADUC55
Sample ID: LT09
Matrix: Tissue

Collected: 2024/08/26
Shipped:
Received: 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC56
Sample ID: LT10
Matrix: Tissue

Collected: 2024/08/26
Shipped:
Received: 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC57
Sample ID: LT11
Matrix: Tissue

Collected: 2024/08/26
Shipped:
Received: 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC58
Sample ID: LT12
Matrix: Tissue

Collected: 2024/08/26
Shipped:
Received: 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

Bureau Veritas ID: ADUC59
Sample ID: NP01
Matrix: Tissue

Collected: 2024/08/26
Shipped:
Received: 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Tissue by CVAA	CV/AA	9670949	N/A	2024/10/02	Maitri PATIL
Metals in Tissue by ICPMS	ICP1/MS	9670910	N/A	2024/09/30	Prempal Bhatti

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4T8702
Report Date: 2024/10/15

WSP Canada Inc.
Client Project #: CA0003092.5894
Sampler Initials: BR

TEST SUMMARY

Bureau Veritas ID: ADUC59
Sample ID: NP01
Matrix: Tissue

Collected: 2024/08/26
Shipped:
Received: 2024/09/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methyl Mercury in Tissue by GC - Wet Wt	CV/AF	9702897	2024/10/12	2024/10/12	Simranjit Kaur
Moisture in Tissue-Freeze Drying	BAL/BAL	9702898	2024/10/04	2024/10/04	Cyrhea Goda
Moisture		9668351	N/A	2024/09/19	Aurora Alvea

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	-10.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9668351	IMN	QC Standard	Moisture	2024/09/19		109	%	N/A
9668351	IMN	Method Blank	Moisture	2024/09/19	<0.10		g/100g	
9668351	IMN	RPD	Moisture	2024/09/27	0.45		%	20
9670910	PBA	Matrix Spike	Arsenic (As)	2024/09/30		95	%	75 - 125
			Antimony (Sb)	2024/09/30		99	%	75 - 125
			Barium (Ba)	2024/09/30		94	%	75 - 125
			Beryllium (Be)	2024/09/30		94	%	75 - 125
			Bismuth (Bi)	2024/09/30		91	%	75 - 125
			Boron (B)	2024/09/30		99	%	75 - 125
			Cadmium (Cd)	2024/09/30		92	%	75 - 125
			Calcium (Ca)	2024/09/30		106	%	75 - 125
			Cesium (Cs)	2024/09/30		95	%	75 - 125
			Chromium (Cr)	2024/09/30		94	%	75 - 125
			Cobalt (Co)	2024/09/30		95	%	75 - 125
			Copper (Cu)	2024/09/30		93	%	75 - 125
			Iron (Fe)	2024/09/30		96	%	75 - 125
			Lead (Pb)	2024/09/30		91	%	75 - 125
			Magnesium (Mg)	2024/09/30		NC	%	75 - 125
			Manganese (Mn)	2024/09/30		94	%	75 - 125
			Molybdenum (Mo)	2024/09/30		96	%	75 - 125
			Nickel (Ni)	2024/09/30		92	%	75 - 125
			Phosphorus (P)	2024/09/30		NC	%	75 - 125
			Potassium (K)	2024/09/30		NC	%	75 - 125
			Selenium (Se)	2024/09/30		96	%	75 - 125
			Silver (Ag)	2024/09/30		91	%	75 - 125
			Sodium (Na)	2024/09/30		NC	%	75 - 125
			Strontium (Sr)	2024/09/30		96	%	75 - 125
			Thallium (Tl)	2024/09/30		92	%	75 - 125
			Tin (Sn)	2024/09/30		87	%	75 - 125
			Titanium (Ti)	2024/09/30		90	%	75 - 125
			Uranium (U)	2024/09/30		92	%	75 - 125
			Vanadium (V)	2024/09/30		95	%	75 - 125
			Zinc (Zn)	2024/09/30		92	%	75 - 125
9670910	PBA	QC Standard	Arsenic (As)	2024/09/30		102	%	70 - 130
			Cadmium (Cd)	2024/09/30		88	%	70 - 130
			Chromium (Cr)	2024/09/30		66	%	60 - 140
			Cobalt (Co)	2024/09/30		93	%	70 - 130
			Copper (Cu)	2024/09/30		87	%	70 - 130
			Iron (Fe)	2024/09/30		89	%	70 - 130
			Lead (Pb)	2024/09/30		80	%	70 - 130
			Manganese (Mn)	2024/09/30		86	%	70 - 130
			Molybdenum (Mo)	2024/09/30		93	%	70 - 130
			Nickel (Ni)	2024/09/30		82	%	60 - 140
			Selenium (Se)	2024/09/30		93	%	70 - 130
			Strontium (Sr)	2024/09/30		88	%	70 - 130
			Vanadium (V)	2024/09/30		90	%	70 - 130
			Zinc (Zn)	2024/09/30		85	%	70 - 130
9670910	PBA	Spiked Blank	Arsenic (As)	2024/09/30		97	%	80 - 120
			Antimony (Sb)	2024/09/30		101	%	80 - 120
			Barium (Ba)	2024/09/30		96	%	80 - 120
			Beryllium (Be)	2024/09/30		96	%	80 - 120
			Bismuth (Bi)	2024/09/30		93	%	80 - 120

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Boron (B)	2024/09/30		95	%	80 - 120
			Cadmium (Cd)	2024/09/30		94	%	80 - 120
			Calcium (Ca)	2024/09/30		102	%	80 - 120
			Cesium (Cs)	2024/09/30		98	%	80 - 120
			Chromium (Cr)	2024/09/30		96	%	80 - 120
			Cobalt (Co)	2024/09/30		97	%	80 - 120
			Copper (Cu)	2024/09/30		94	%	80 - 120
			Iron (Fe)	2024/09/30		99	%	80 - 120
			Lead (Pb)	2024/09/30		93	%	80 - 120
			Magnesium (Mg)	2024/09/30		98	%	80 - 120
			Manganese (Mn)	2024/09/30		95	%	80 - 120
			Molybdenum (Mo)	2024/09/30		97	%	80 - 120
			Nickel (Ni)	2024/09/30		94	%	80 - 120
			Phosphorus (P)	2024/09/30		104	%	80 - 120
			Potassium (K)	2024/09/30		100	%	80 - 120
			Selenium (Se)	2024/09/30		98	%	80 - 120
			Silver (Ag)	2024/09/30		94	%	80 - 120
			Sodium (Na)	2024/09/30		97	%	80 - 120
			Strontium (Sr)	2024/09/30		97	%	80 - 120
			Thallium (Tl)	2024/09/30		95	%	80 - 120
			Tin (Sn)	2024/09/30		99	%	80 - 120
			Titanium (Ti)	2024/09/30		96	%	80 - 120
			Uranium (U)	2024/09/30		94	%	80 - 120
			Vanadium (V)	2024/09/30		95	%	80 - 120
			Zinc (Zn)	2024/09/30		91	%	80 - 120
9670910	PBA	Method Blank	Arsenic (As)	2024/09/30	<0.1		ug/g	
			Antimony (Sb)	2024/09/30	<0.05		ug/g	
			Barium (Ba)	2024/09/30	<0.3		ug/g	
			Beryllium (Be)	2024/09/30	<0.05		ug/g	
			Bismuth (Bi)	2024/09/30	<0.05		ug/g	
			Boron (B)	2024/09/30	<0.5		ug/g	
			Cadmium (Cd)	2024/09/30	<0.01		ug/g	
			Calcium (Ca)	2024/09/30	<50		ug/g	
			Cesium (Cs)	2024/09/30	<0.005		ug/g	
			Chromium (Cr)	2024/09/30	<0.3		ug/g	
			Cobalt (Co)	2024/09/30	<0.005		ug/g	
			Copper (Cu)	2024/09/30	<0.5		ug/g	
			Iron (Fe)	2024/09/30	<3		ug/g	
			Lead (Pb)	2024/09/30	<0.03		ug/g	
			Magnesium (Mg)	2024/09/30	<100		ug/g	
			Manganese (Mn)	2024/09/30	<0.3		ug/g	
			Molybdenum (Mo)	2024/09/30	<0.05		ug/g	
			Nickel (Ni)	2024/09/30	<0.05		ug/g	
			Phosphorus (P)	2024/09/30	<50		ug/g	
			Potassium (K)	2024/09/30	<100		ug/g	
			Selenium (Se)	2024/09/30	<0.04		ug/g	
			Silver (Ag)	2024/09/30	<0.05		ug/g	
			Sodium (Na)	2024/09/30	<50		ug/g	
			Strontium (Sr)	2024/09/30	<0.5		ug/g	
			Thallium (Tl)	2024/09/30	<0.003		ug/g	
			Tin (Sn)	2024/09/30	<0.3		ug/g	
			Titanium (Ti)	2024/09/30	<0.5		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Uranium (U)	2024/09/30	<0.005		ug/g	
			Vanadium (V)	2024/09/30	<0.05		ug/g	
			Zinc (Zn)	2024/09/30	<2		ug/g	
9670910	PBA	RPD	Arsenic (As)	2024/09/30	0.12		%	30
			Antimony (Sb)	2024/09/30	NC		%	30
			Cadmium (Cd)	2024/09/30	5.0		%	30
			Chromium (Cr)	2024/09/30	NC		%	30
			Copper (Cu)	2024/09/30	NC		%	30
			Iron (Fe)	2024/09/30	4.8		%	30
			Lead (Pb)	2024/09/30	NC		%	30
			Magnesium (Mg)	2024/09/30	2.2		%	30
			Manganese (Mn)	2024/09/30	2.0		%	30
			Nickel (Ni)	2024/09/30	0.48		%	30
			Selenium (Se)	2024/09/30	7.0		%	30
			Tin (Sn)	2024/09/30	NC		%	30
			Zinc (Zn)	2024/09/30	4.5		%	30
9670949	MPJ	Matrix Spike [ADUC47-01]	Mercury (Hg)	2024/10/02		NC	%	75 - 125
9670949	MPJ	QC Standard	Mercury (Hg)	2024/10/02		85	%	75 - 125
9670949	MPJ	Method Blank	Mercury (Hg)	2024/10/02	<0.005		ug/g	
9670949	MPJ	RPD [ADUC47-01]	Mercury (Hg)	2024/10/02	1.7		%	35
9702897	éOT	Matrix Spike [ADUC47-01]	Total (Wet Wt) Methyl Mercury	2024/10/12		NC	%	80 - 120
9702897	éOT	QC Standard	Total (Wet Wt) Methyl Mercury	2024/10/12		84	%	80 - 120
9702897	éOT	Spiked Blank	Total (Wet Wt) Methyl Mercury	2024/10/12		117	%	80 - 120
9702897	éOT	Method Blank	Total (Wet Wt) Methyl Mercury	2024/10/12	<1.0		ng/g	
9702897	éOT	RPD [ADUC47-01]	Total (Wet Wt) Methyl Mercury	2024/10/12	1.2		%	40
9702898	CG5	RPD [ADUC47-01]	Sample Weight (as received)	2024/10/04	2.3		%	N/A
			Moisture-Subcontracted	2024/10/04	0.69		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

David Huang, BBY Scientific Specialist

Louise Harding, Scientific Specialist

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Automated Statchk

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C4T8702
2024/09/24 09:17

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465 George Tel: 902-567-1255 Fax: 902-539-6504 Toll Free: 1-888-535-7770

CHAIN OF CUSTODY RECORD

ENV COC - 00016v3

BEDF-2024-09-1149

Invoice Information	Invoice to (requires report) ☑	Report Information (if differs from invoice)		Project Information	
Company :	WSP Canada Inc	Company:	WSP	Quotation #:	CA41059
Contact Name:	Accounts Payable	Contact Name:	Sharon Guin	P.O. #/ AFE#:	
Street Address:	100 Scotia Crt	Street Address:		Project #:	CA0003092.5894
City:	Whitby Prov: ON Postal Code: L1N8Y6	City:	Prov: Postal Code:	Site #:	
Phone:	(905) 723-2727	Phone:		Site Location:	
Email:	CAPayablesInvoice@wsp.com	Email:	sharon.guin@wsp.com	Site Location Province:	
Copies:		Copies:		Sampled By:	B. Ryan and D. Kenny

Regulatory Criteria	Regulation	**Matrix
**Specify matrix for each regulation: surface water (SW)/groundwater (GW)/tap water/sewage/effluent/seawater/potable water/non-potable water/tissue/soil/sludge/metal		

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 Total Metals	5 Mercury	6 Methylmercury	7 Moisture content	8	9	10	11	12	13	14	15	16	17	18	19	20 E	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Comments
1	LT01	24	08	16			Tedlar Bag				X	X	X	X														1		Frozen fillets
2	LT02	24	08	16			Tissue				X	X	X	X														1		Frozen fillets
3	LT03	24	08	16			Tissue				X	X	X	X														1		Frozen fillets
4	LT04	24	08	16			Tissue				X	X	X	X														1		Frozen fillets
5	LT05	24	08	16			Tissue				X	X	X	X														1		Frozen fillets
6	LT06	24	08	16			Tissue				X	X	X	X														1		Frozen fillets
7	LT07	24	08	16			Tissue				X	X	X	X														1		Frozen fillets
8	LT08	24	08	26			Tissue				X	X	X	X														2		Frozen fillets
9	LT09	24	08	26			Tissue				X	X	X	X														2		Frozen fillets
10	LT10	24	08	26			Tissue				X	X	X	X														2		Frozen fillets
11	LT11	24	08	26			Tissue				X	X	X	X														2		Frozen fillets
12	LT12	24	08	26			Tissue				X	X	X	X														2		Frozen fillets

Regular Turnaround Time (TAT)
☐ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present			-10	-10	-11	

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special instructions
1	Matthew Gosse	24	09	23	13	00	1	24	09	23	12	55	
2							2						

SEP 2 3 2024

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105-200 Bluewater Road, Bedford, NS B4B 1G9

49-55 Elizabeth Avenue, St John's, NL A1A 1W9

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Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227

Tel: 902-567-1255 Fax: 902-539-6504 Toll Free: 1-888-

CHAIN OF CUSTODY RECORD

ENV COC - 00016v3

CONTINUED

[PAGE 1 REFERENCE]

Company:	WSP Canada Inc
Contact Name:	Accounts Payable
Project #:	CA0003092.5894

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled			Time (24hr)		Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 Total Metals	5 Mercury	6 Methylmercury	7 Moisture Content	8	9	10	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Same as above / Comments
		YY	MM	DD	HH	MM																								
13	NP01	24	08	26			Tissue				X	X	X	X														2		Frozen fillets
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APPENDIX B

Analytical Tables

Table 1: Vegetation Tissue Analytical Results
Kami Iron Ore Mine Project

Sample Location			V4	V6		V9		V10		V11			V12		V17
Sample ID			V4A + V4B LABRADOR TEA	V6A + V6B LABRADOR TEA	V6 - MIXED BERRY	V9A + V9B LABRADOR TEA	V9 MIXED BERRY	V10A + V10B LABRADOR TEA	V10 CRANBERRY	V11A + V11B LABRADOR TEA	V11 - MIXED BERRY	V11 - CRANBERRY	V12 -MIXED BERRIES	V12A + V12B LABRADOR TEA	V17A + V17B LABRADOR TEA
BV Sample ID			ACUP37	ACUP83	ACUP85	ACUP47	ACUP50	ACUP86	ACUP88	ACUP78	ACUP80	ACUP81	ACUP40	ACUP41	ACUP57
BV Job Number			C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284
Sampling Date			07/09/2024	05/09/2024	05/09/2024	07/09/2024	07/09/2024	05/09/2024	05/09/2024	06/09/2024	06/09/2024	06/09/2024	07/09/2024	07/09/2024	06/09/2024
Medium			Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
Parameters	**Units**	**RDL**													
Moisture	g/100g	0.10	50.85	50.42	85.67	51.51	83.1	49.91	85.58	49.33	83.83	86.04	84.14	48.00	54.31
Antimony	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	µg/g	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium	µg/g	0.3	43.5	40.5	1.3	44.9	1.5	43.2	2.0	42.1	2.6	2.1	1.7	35.3	41.4
Beryllium	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bismuth	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron (Total)	µg/g	0.5	3.5	7.5	0.6	6.0	0.9	3.9	0.7	5.1	0.6	0.5	<0.5	4.2	2.7
Cadmium	µg/g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium	µg/g	50	2650	2920	180	2910	174	2470	196	2540	223	183	136	3110	2510
Chromium	µg/g	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	<0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Cobalt	µg/g	0.005	0.035	0.017	<0.005	0.026	<0.005	0.023	<0.005	0.046	<0.005	<0.005	<0.005	0.025	0.025
Copper	µg/g	0.5	1.6	1.5	0.9	1.4	0.8	1.6	0.6	1.7	0.6	0.6	0.5	1.6	1.5
Iron	µg/g	3.0	329	87	5.0	149	10	129	35	346	32	22	6.0	204	191
Lead	µg/g	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	<0.03	<0.03	<0.03	<0.03	0.08	<0.03
Magnesium	µg/g	100	635	588	<100	507	<100	639	<100	631	<100	<100	<100	627	595
Manganese	µg/g	2.0	708	522	49.4	678	47.9	606	47.1	616	123	57.8	92.2	476	658
Mercury	µg/g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	µg/g	0.05	0.36	0.32	0.07	0.28	0.06	0.6	0.06	0.4	0.09	0.06	<0.05	0.36	0.35
Phosphorus	µg/g	50	687	713	104	560	109	653	113	642	167	120	147	648	578
Potassium	µg/g	100	2400	2250	765	1830	851	2210	724	2080	880	686	816	2030	1920
Selenium	µg/g	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Silver	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium	µg/g	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Strontium	µg/g	0.5	7.3	6.9	<0.5	3.5	<0.5	17.2	1.3	5.3	0.7	<0.5	<0.5	12.4	4.0
Thallium	µg/g	0.003	<0.003	0.021	<0.003	0.005	<0.003	0.011	<0.003	<0.003	<0.003	<0.003	<0.003	0.004	0.058
Tin	µg/g	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Titanium	µg/g	0.5	1.6	1.2	<0.5	2.0	<0.5	1.9	<0.5	2.6	<0.5	<0.5	<0.5	1.8	1.4
Uranium	µg/g	0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vanadium	µg/g	0.05	0.07	<0.05	<0.05	0.06	<0.05	0.06	<0.05	0.1	<0.05	<0.05	<0.05	0.07	<0.05
Zinc	µg/g	2.0	10	10	<2	9.0	<2	10	<2	10	<2	<2	<2	10	10

Notes:

ID = identification; BV = Bureau Veritas; µg/g = micrograms per gram; g/100g = grams per 100 grams; RDL = reported detection limit; "<" = less than detection limit; REF = reference sample.

Table 1: Vegetation Tissue Analytical Results
Kami Iron Ore Mine Project

Sample Location			V18			V19			V97	V98		V99	REF	
Sample ID			V18A + V18B LABRADOR TEA	V18 - MIXED BERRY	V18- BLUE BERRY	V19A + V19B LABRADOR TEA	V19 - BLUEBERRY	V19 - CRANBERRY	V97A + V97B LABRADOR TEA	V98 CRANBERRY	V98A + V98B LABRADOR TEA	V99 CRANBERRY	REF1A+REF1B LABRADOR TEA	REF 1 - MIXED BERRY
BV Sample ID			ACUP66	ACUP68	ACUP69	ACUP71	ACUP73	ACUP74	ACUP44	ACUP60	ACUP61	ACUP64	ACUP52	ACUP55
BV Job Number			C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284
Sampling Date			06/09/2024	06/09/2024	06/09/2024	06/09/2024	06/09/2024	06/09/2024	07/09/2024	06/09/2024	06/09/2024	05/09/2024	06/09/2024	06/09/2024
Medium			Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
Parameters	**Units**	**RDL**												
Moisture	g/100g	0.10	48.27	83.91	82.81	49.01	83.18	85.28	50.76	84.77	49.16	84.15	50.27	85.88
Antimony	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	µg/g	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium	µg/g	0.3	36.6	1.6	2.7	37	2.1	2.0	34.8	1.3	43.9	1.7	46.3	2.2
Beryllium	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bismuth	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron (Total)	µg/g	0.5	5.6	0.6	0.6	6.5	<0.5	0.7	5.2	0.6	4.9	0.5	1.6	<0.5
Cadmium	µg/g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium	µg/g	50	2570	153	191	2490	178	189	2510	188	2760	164	2540	191
Chromium	µg/g	0.3	<0.3	<0.3	0.4	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	<0.3	0.4	<0.3
Cobalt	µg/g	0.005	0.017	<0.005	0.011	0.02	0.008	<0.005	0.03	<0.005	0.021	<0.005	0.041	<0.005
Copper	µg/g	0.5	1.8	0.7	7.6	1.6	0.7	0.5	1.5	1.1	1.7	<0.5	1.9	0.6
Iron	µg/g	3.0	112	15	29	148	32	5.0	115	11	147	5.0	407	19
Lead	µg/g	0.03	<0.03	<0.03	0.13	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Magnesium	µg/g	100	638	<100	<100	648	<100	<100	612	<100	655	<100	730	<100
Manganese	µg/g	2.0	564	56.4	105	633	111	44.4	434	23.8	505	39.8	493	46.7
Mercury	µg/g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	µg/g	0.05	0.25	0.06	0.3	0.28	0.1	<0.05	0.67	<0.05	0.23	0.07	0.56	0.07
Phosphorus	µg/g	50	664	132	153	650	160	102	711	118	726	98	714	115
Potassium	µg/g	100	2110	709	911	2160	846	637	2360	627	2210	858	2560	753
Selenium	µg/g	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Silver	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium	µg/g	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Strontium	µg/g	0.5	2.3	<0.5	<0.5	4.2	<0.5	<0.5	9.0	<0.5	4.4	0.5	5.7	0.5
Thallium	µg/g	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.048	<0.003	0.024	<0.003	0.02	<0.003
Tin	µg/g	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Titanium	µg/g	0.5	1.7	<0.5	<0.5	1.5	0.6	<0.5	2.2	<0.5	1.9	<0.5	1.3	<0.5
Uranium	µg/g	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vanadium	µg/g	0.05	0.05	<0.05	<0.05	0.05	<0.05	<0.05	0.06	<0.05	0.06	<0.05	0.06	<0.05
Zinc	µg/g	2.0	10	<2	3.0	9.0	<2	<2	9.0	<2	9.0	<2	9.0	<2

Notes:

ID = identification; BV = Bureau Veritas; µg/g = micrograms per gram; g/100g = grams per 100 grams; RDL = reported detection limit; "<" = less than detection limit; REF = reference sample.

Table 2: Soil Analytical Results

Kami Iron Ore Mine Project

Sample Location			CCME $SQG_{HH(a)}$	ARBCA Health Based Tier I EQS[(b)]	V4	V6	V9	V10		V11	V12	V18	V19	V97	V98
Sample ID					V4	V6	V9	V10 -1	V10 -2	V11	V12	V18	V19	V97	V98
BV Sample ID					ACUP36	ACUP82	ACUP46	ACUP75	ACUP76	ACUP77	ACUP39	ACUP65	ACUP70	ACUP43	ACUP59
BV Job Number					C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284	C4S7284
Sampling Date					07/09/2024	05/09/2024	07/09/2024	05/09/2024	05/09/2024	06/09/2024	07/09/2024	06/09/2024	06/09/2024	07/09/2024	06/09/2024
Medium					Soil	Soil	Soil	Soil	Soil (duplicate)	Soil	Soil	Soil	Soil	Soil	Soil
Parameters	**Units**	**RDL**													
Total Organic Carbon	mg/kg	500	NV	NV	7000	25000	9500	13000	10000	5700	4800	22000	8900	14000	9900
Available (CaCl2) pH	pH	NV	6 to 8	NV	**3.57**	**3.03**	**4.01**	**4.16**	**3.43**	**4.42**	**4.21**	**4.64**	**5.3**	**3.45**	**3.28**
Aluminum	µg/g	50	NV	15,400	990	3500	**17000**	7400	5500	3900	4300	4600	10000	1700	1500
Antimony	µg/g	0.20	20[(c)]	7.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	µg/g	1.0	12	10	1.4	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	1.9	<1.0	<1.0
Barium	µg/g	0.50	6,800	350	9.0	18	200	8.9	6.9	18	7.9	30	44	15	6.4
Beryllium	µg/g	0.20	75	1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.29	<0.20	<0.20
Bismuth	µg/g	1.0	NV	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron (Total)	µg/g	5.0	NV	4,300	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	µg/g	0.10	1.4	1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Calcium	µg/g	50	NV	NV	79	390	1600	390	350	350	380	1400	2000	250	290
Chromium	µg/g	1.0	220	220	4.0	19	97	19	17	15	14	17	44	6.6	2.4
Cobalt	µg/g	0.10	40[(c)]	22	2.2	1.3	14	2.2	2.0	6.2	1.9	3.0	10	1.6	0.92
Copper	µg/g	0.50	1,100	250	1.9	0.58	7.0	3.9	3.9	4.5	1.9	4.0	9.4	2.4	<0.50
Iron	µg/g	50	NV	11,000	**53000**	11000	**37000**	**27000**	**30000**	**89000**	**23000**	**29000**	**72000**	**27000**	**25000**
Lead	µg/g	1.0	140	120	1.4	5.4	2.0	4.8	4.5	2.8	4.5	4.6	6.1	2.4	2.3
Magnesium	µg/g	50	NV	NV	150	1100	13000	1500	1300	1200	810	2100	4700	260	140
Manganese	µg/g	1.0	NV	360	300	32	150	140	120	**1600**	76	**560**	**1400**	66	88
Mercury	µg/g	0.05	6.6	6.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum	µg/g	0.50	5[(c)]	15	<0.50	<0.50	0.73	<0.50	<0.50	<0.50	0.72	0.71	0.79	1.1	<0.50
Nickel	µg/g	0.50	200	70	2.0	4.4	48	5.1	4.5	5.9	3.3	6.2	18	1.9	0.56
Phosphorus	µg/g	50	NV	NV	170	120	1700	480	420	760	390	330	670	110	110
Potassium	µg/g	200	NV	NV	<200	590	2700	220	<200	<200	<200	450	530	<200	<200
Selenium	µg/g	0.50	80	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	µg/g	0.20	20[(c)]	77	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Sodium	µg/g	50	NV	15,000	<50	<50	170	<50	<50	<50	<50	<50	<50	<50	<50
Strontium	µg/g	1.0	NV	9,400	1.2	8.6	7.1	5.2	4.3	2.3	6.9	8.0	10	5.0	4.5
Thallium	µg/g	0.05	1[(c)]	1	<0.050	<0.050	0.12	<0.050	<0.050	<0.050	<0.050	0.062	0.063	<0.050	<0.050
Tin	µg/g	1.0	5[(c)]	9,400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	µg/g	0.05	23	23	0.15	0.25	0.17	0.21	0.22	0.24	0.22	0.22	0.35	0.39	0.2
Vanadium	µg/g	5.0	130[(c)]	39	16	32	**41**	25	27	16	30	22	35	15	5.7
Zinc	µg/g	5.0	10,000	200	5.5	5.7	43	12	10	12	6.1	16	30	<5.0	<5.0

Notes:

ID = identification; BV = Bureau Veritas; µg/g = micrograms per gram; mg/kg = milligrams per kilogram; RDL = reported detection limit; NV = no value; "<" = less than detection limit; REF = reference sample; CaCl2 = calcium chloride.

Bold and shaded	Concentration exceeds screening value or soil pH is outside criteria range

[(a)]Canadian Council of Ministers of the Environment (CCME). 1999. Canadian Soil Quality Guidelines for the Protection of Human Health (SQG_{HH}). Agricultural land use. Parameter-specific guidelines: Antimony (1991); Arsenic (1997); Barium (2013); Beryllium (2015); Cadmium (1999); Chromium: total chromium (1997); Cobalt (1991); Copper (1999); Lead (1999); Mercury (1999); Molybdenum (1991); Nickel (2015); Selenium (2009); Silver (1991); Thallium (1999); Tin (1991); Uranium (2007); Vanadium (1997); Zinc (2018).

[(b)] Atlantic Risk-Based Corrective Action (ABRCA). 2021. Human Health-Based Tier I Environmental Quality Standards (EQS) for Soil - All Land Uses; Potable Groundwater Condition (mg/kg). Agricultural, Coarse soil.

[(c)] Overall agricultural guideline (1991); CCME factsheet unavailable.

Table 2: Soil Analytical Results

Kami Iron Ore Mine Project

Sample Location			CCME $SQG_{HH(a)}$	ARBCA Health Based Tier I EQS[(b)]	V99	REF 1
Sample ID					V99	REF 1
BV Sample ID					ACUP63	ACUP51
BV Job Number					C4S7284	C4S7284
Sampling Date					05/09/2024	06/09/2024
Medium					Soil	Soil
Parameters	**Units**	**RDL**				
Total Organic Carbon	mg/kg	500	NV	NV	19000	11000
Available (CaCl2) pH	pH	NV	6 to 8	NV	**4.67**	**3.89**
Aluminum	µg/g	50	NV	15,400	11000	5100
Antimony	µg/g	0.20	20[(c)]	7.5	<0.20	<0.20
Arsenic	µg/g	1.0	12	10	1.3	1.8
Barium	µg/g	0.50	6,800	350	39	24
Beryllium	µg/g	0.20	75	1	0.20	<0.20
Bismuth	µg/g	1.0	NV	NV	<1.0	<1.0
Boron (Total)	µg/g	5.0	NV	4,300	<5.0	<5.0
Cadmium	µg/g	0.10	1.4	1	<0.10	<0.10
Calcium	µg/g	50	NV	NV	1300	250
Chromium	µg/g	1.0	220	220	38	25
Cobalt	µg/g	0.10	40[(c)]	22	3.9	3.4
Copper	µg/g	0.50	1,100	250	4.5	3.4
Iron	µg/g	50	NV	11,000	**27000**	**62000**
Lead	µg/g	1.0	140	120	9.4	5.3
Magnesium	µg/g	50	NV	NV	3200	1400
Manganese	µg/g	1.0	NV	360	300	**610**
Mercury	µg/g	0.05	6.6	6.6	<0.050	<0.050
Molybdenum	µg/g	0.50	5[(c)]	15	<0.50	0.53
Nickel	µg/g	0.50	200	70	10	6.5
Phosphorus	µg/g	50	NV	NV	750	360
Potassium	µg/g	200	NV	NV	900	700
Selenium	µg/g	0.50	80	1	<0.50	<0.50
Silver	µg/g	0.20	20[(c)]	77	<0.20	<0.20
Sodium	µg/g	50	NV	15,000	<50	<50
Strontium	µg/g	1.0	NV	9,400	16	4.1
Thallium	µg/g	0.05	1[(c)]	1	0.082	0.066
Tin	µg/g	1.0	5[(c)]	9,400	<1.0	<1.0
Uranium	µg/g	0.05	23	23	0.39	0.25
Vanadium	µg/g	5.0	130[(c)]	39	35	36
Zinc	µg/g	5.0	10,000	200	20	12

Notes:

ID = identification; BV = Bureau Veritas; µg/g = micrograms per gram; mg/kg = milligrams per kilogram; RDL = reported detection limit; NV = no value; "<" = less than detection limit; REF = reference sample; CaCl2 = calcium chloride.

Bold and shaded	Concentration exceeds screening value or soil pH is outside criteria range

[(a)]Canadian Council of Ministers of the Environment (CCME). 1999. Canadian Soil Quality Guidelines for the Protection of Human Health (SQG_{HH}). Agricultural land use. Parameter-specific guidelines: Antimony (1991); Arsenic (1997); Barium (2013); Beryllium (2015); Cadmium (1999); Chromium: total chromium (1997); Cobalt (1991); Copper (1999); Lead (1999); Mercury (1999); Molybdenum (1991); Nickel (2015); Selenium (2009); Silver (1991); Thallium (1999); Tin (1991); Uranium (2007); Vanadium (1997); Zinc (2018).

[(b)] Atlantic Risk-Based Corrective Action (ABRCA). 2021. Human Health-Based Tier I Environmental Quality Standards (EQS) for Soil - All Land Uses; Potable Groundwater Condition (mg/kg). Agricultural, Coarse soil.

[(c)] Overall agricultural guideline (1991); CCME factsheet unavailable.

Table 3: Fish Tissue Analytical Results
Kami Iron Ore Mine Project

		Sample Location	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake	Long Lake
		Sample ID	LT01	LT02	LT03	LT04	LT05	LT06	LT07	LT08	LT09	LT10	LT11	LT12	NP01
		BV Sample ID	ADUC47	ADUC48	ADUC49	ADUC50	ADUC51	ADUC52	ADUC53	ADUC54	ADUC55	ADUC56	ADUC57	ADUC58	ADUC59
		BV Job Number	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702	C4T8702
		Sampling Date	08/16/2024	08/16/2024	08/16/2024	08/16/2024	08/16/2024	08/16/2024	08/16/2024	08/26/2024	08/26/2024	08/26/2024	08/26/2024	08/26/2024	08/26/2024
		Medium	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue	Fish Tissue
Parameters	Units	RDL													
Moisture	g/100g	0.10	73.29	72.95	75.16	73.35	77.02	76.08	77.21	75.83	75.06	72.57	74.22	77.08	76.45
Antimony	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	µg/g	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium	µg/g	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Beryllium	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bismuth	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron	µg/g	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cadmium	µg/g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium	µg/g	50	69	86	180	120	360	1500	1400	280	120	500	54	590	440
Cesium	µg/g	0.005	0.043	0.049	0.039	0.041	0.027	0.038	0.04	0.035	0.035	0.058	0.039	0.028	0.047
Chromium	µg/g	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Cobalt	µg/g	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	µg/g	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Iron	µg/g	3.0	19	4.0	5.0	5.0	5.0	9.0	5.0	4.0	3.0	5.0	5.0	5.0	<3.0
Lead	µg/g	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Magnesium	µg/g	100	280	280	290	290	260	320	300	290	280	260	260	290	310
Manganese	µg/g	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.6	0.5	<0.3	<0.3	<0.3	<0.3	0.7	0.3
Methyl Mercury	µg/g	0.001	0.35 [(1)]	0.27	0.14	0.12	0.16	0.23	0.14	0.12	0.17	0.9	1.1	0.11	0.85
Mercury	µg/g	0.005	0.28	0.19	0.12	0.099	0.11	0.2	0.13	0.096	0.15	0.8	0.96	0.09	0.75
Molybdenum	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phosphorus	µg/g	300	2500	2500	2700	2600	2400	3200	3000	2600	2500	2500	2300	2700	2500
Potassium	µg/g	100	4400	4300	4700	4400	4200	4700	4600	4600	4500	4100	4100	4500	4300
Selenium	µg/g	0.04	0.35	0.27	0.32	0.33	0.32	0.34	0.33	0.37	0.32	0.25	0.39	0.31	0.27
Silver	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium	µg/g	50	260	250	290	270	310	400	320	290	270	290	300	320	300
Strontium	µg/g	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	0.003	0.006	0.006	0.006	0.007	0.003	0.006	0.01	0.004	0.004	0.005	0.004	0.005	0.005
Tin	µg/g	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Titanium	µg/g	0.5	1.3	1.3	1.4	1.3	1.3	1.7	1.6	1.4	1.2	1.3	1.3	1.5	1.3
Uranium	µg/g	0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
Vanadium	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Zinc	µg/g	2.0	3.0	3.0	4.0	4.0	4.0	6.0	4.0	5.0	4.0	4.0	3.0	5.0	4.0

Notes:
ID = identification; BV = Bureau Veritas; µg/g = micrograms per gram; g/100g = grams per 100 grams; RDL = reported detection limit; "<" = less than detection limit.
[(1)] Matrix spike exceeds acceptance limits due to probable matrix interference.

Table 4: Relative Precent Difference - Soil
Kami Iron Ore Mine Project

Sample Location	Units	RDL	V10		RPD (%)
Sample ID			V10 -1	V10 -2	
BV Sample ID			ACUP75	ACUP76	
BV Job Number			C4S7284	C4S7284	
Sampling Date			05/09/2024	05/09/2024	
Medium			Soil	Soil	
Parameters					
Total Organic Carbon	mg/kg	500	13000	10000	26
Available (CaCl2) pH	Unitless	-	4.16	3.43	19
Aluminum	µg/g	50	7400	5500	29
Antimony	µg/g	0.05	<0.20	<0.20	n/c
Arsenic	µg/g	1	<1.0	<1.0	n/c
Barium	µg/g	0.3	8.9	6.9	25
Beryllium	µg/g	0.05	<0.20	<0.20	n/c
Bismuth	µg/g	1	<1.0	<1.0	n/c
Boron (Total)	µg/g	0.5	<5.0	<5.0	0
Cadmium	µg/g	0.01	<0.10	<0.10	0
Calcium	µg/g	50	390	350	11
Chromium	µg/g	0.3	19	17	11
Cobalt	µg/g	0.005	2.2	2	10
Copper	µg/g	0.5	3.9	3.9	0
Iron	µg/g	50	27000	30000	11
Lead	µg/g	0.03	4.8	4.5	6
Magnesium	µg/g	50	1500	1300	14
Manganese	µg/g	1	140	120	15
Mercury	µg/g	0.01	<0.050	<0.050	0
Molybdenum	µg/g	0.05	<0.50	<0.50	0
Nickel	µg/g	0.05	5.1	4.5	13
Phosphorus	µg/g	50	480	420	13
Potassium	µg/g	200	220	<200	n/c
Selenium	µg/g	0.04	<0.50	<0.50	0
Silver	µg/g	0.05	<0.20	<0.20	n/c
Sodium	µg/g	50	<50	<50	n/c
Strontium	µg/g	1	5.2	4.3	19
Thallium	µg/g	0.003	<0.050	<0.050	0
Tin	µg/g	1	<1.0	<1.0	n/c
Uranium	µg/g	0.005	0.21	0.22	5
Vanadium	µg/g	0.05	25	27	8
Zinc	µg/g	2	12	10	18

Notes:

ID = identification; BV = Bureau Veritas; µg/g = micrograms per gram; mg/kg = milligrams per kilogram; % = percent; RDL = reported detection limit; RPD = relative percent difference; "-" = value not available; "<" = less than detection limit; n/c = not calculated.



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