

J-1 CONTRACTING LTD. TERRA NOVA QUARRY

Environmental Assessment Registration Document

Submitted by:
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Prepared with the assistance of:
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June 11, 2024
(Date of Document Submission)

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1.0 NAME OF UNDERTAKING

Terra Nova Quarry Permit Application

- Quarry Permit Identification
 - File 711:13228 covering 10.8 ha
- Environmental Assessment Registration Identification
 - File Reference No. 200.20.3413

2.0 PROPOSER

2.1 Name of Corporate Body

J-1 Contracting Ltd.

2.2 Address

P.O. Box 9068

Clarenville, NL

A5A 2C2

2.3 President

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2.4 Principal Contact Person

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Office Administrator

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3.0 THE UNDERTAKING

3.1 *Nature of the Undertaking*

The proposed project referred to as the Terra Nova Quarry is a 10.8 ha area quarry permit application (File #711:13228) submitted on January 30, 2024, to the Mineral Lands Division of the Department of Industry Energy and Technology (DIET). The project area is within the National Topographic System (NTS) Map Index 2D/09 in Newfoundland and Labrador (**Figure 1**). The site is located ~1.9 km east of the town of Terra Nova, and within their Municipal Planning Area (**Figure 2**). The proponent J-1 Contracting Ltd. (J-1) will operate the Terra Nova Quarry along with their existing 5.81 ha quarry lease (File 711:1787) that is adjacent to the proposed operations.

3.2 Purpose/Rationale/Requirement for the Undertaking

J-1 Contracting Lt. is a locally owned and operated civil construction company focused on road building and paving predominantly in the Clarenville region of Newfoundland and Labrador. The Terra Nova Quarry will provide additional resources of blending sand to meet increased demand for the product used primarily in asphalt production. The consumer demand for J-1's industrial products has grown, and the company believes the Terra Nova Quarry is the most reasonable location to make the operations most effective from a safety, environmental and regulatory point of view.

Access to the proposed quarry site is gained from Route 301 travelling west from the Trans-Canada Highway (TCH). The permit boundary will be mostly concealed from view along the public road by a ~50 m wide forested buffer zone to Route 301 and the rerouted portion of the road. Additionally, proposed berms and the topography surrounding the quarry permit boundary will limit site visibility from receptors including the Town of Terra Nova (**Figure 3**). Sensitive receptor locations are provided in **Figure 4** and aerial views from the west and east are presented in **Figures 5 & 6**.

Historically the area has seen numerous quarry developments. The proposed and existing quarry operations will conform with these industrial activities while ensuring the impact to the surrounding landscape and environment are minimized. Site access will utilize an existing ~1km long gravel access road currently in use by other quarry operators and Crown Title Owners (**Figure 3**). The proposed site is currently undeveloped and following quarry development will be reclaimed to ensure the area will blend with the surrounding landscape and environment. Site Visibility is discussed in **Section 4.2.3** and Reclamation and Closure are discussed in **Section 4.7**.

Quarry production and processing will involve excavating, crushing, screening, and stockpiling sand and gravel for eventual removal to produce asphalt off-site. No washing of the material will be required. The sand-rich glaciofluvial deposit in the region is a valuable resource of limited supply province wide. Annual production volumes are estimated at 5,000 m³ and may fluctuate to meet specific business demands. Construction of the Terra Nova Quarry will begin with clearing the vegetation and overburden within the permit boundary that will be stockpiled and utilized for future site remediation. The quarry will be developed along 5 m high production benches. J-1 intends to follow the regulatory responsibilities of the quarry project under a quarry permit that includes full rehabilitation of the site upon closure as described in DIET's Quarry Legislation.

4.0 DESCRIPTION OF THE UNDERTAKING

4.1 Geographic Location

The project area is located along Terra Nova Road (Route 301) ~1.9 km east of the town of Terra Nova, 11.5 km west from the (TCH) and ~2.3 km northwest of the Terra Nova National Park boundary (**Figure 4**). Route 301 is a Provincial route after it exits the park and extends from the TCH to the community of Terra Nova. Site access will utilize an existing ~1 km long gravel access road (license to occupy Title # 129027) that exits from the north side of Route 301 and will be utilized for the quarry operations.

The 10.8 ha quarry permit application area shares its interior boundaries with other quarry operators including Penney Paving (File #711:2777; 5.0 ha) and Mac-Court Holdings (File #711:12924; 4.94 ha). Access within the site will evolve during development to accommodate these existing operations while not impeding or entering the adjacent quarry areas without written permission. The southern permit boundary overlaps the current location of Route 301, however following the ongoing realignment work of Route 301, the boundary will sit 50 m north of the public road (**Figure 3**).

The quarry permit application area is within the Municipal Planning Area of the town of Terra Nova (**Figure 2**). Mineral workings are permitted within the rural zone and prohibited in the mixed zone which overlaps the southern boundary and the current location of Route 301. An environmental protection zone surrounds the Terra Nova River where mineral workings are also prohibited; this zone lies outside the northern permit boundary. An agriculture zone is ~200 m west of permit boundary at its closest point. The Terra Nova National Park boundary is located ~2.3 km southeast of the permit boundary. Sensitive human receptors near the project are shown in **Figure 4** and include private properties/houses, the closest of which is located ~1.5 km west of the project boundary, near the town of Terra Nova.

The permit area is located within a domestic cutting area, a cottage planning area and a Newfoundland Power distribution area. The permit area also falls within the Pine Martin Habitat zone. All necessary precautions will be adhered to as per the Government of Newfoundland and Labrador Wildlife Division - Legislative Requirements for areas known to have Pine Marten. Any potential resource conflicts with the proposed quarry construction and operations are discussed in **Section 4.5**.

4.2 Physical Features

4.2.1 Project Site Description

The 10.8 ha quarry permit application boundary (File #711:13228) is adjacent to five approved sand and gravel quarry permits and/or leases operated by Mac-Court Holdings (File 711: 12924), J-1 Contracting (File 711:1787), Penney Paving (File 711:2777), and Station Road Contracting (File 711:7670 & File 711:7748) as shown on **Figures 2 and 3**. Most of these operating quarry sites utilize a ~1 km long gravel access road that extends north from Route 301 along the east side of the quarry area. This road is part of a Crown Title (No. 129027) issued to the Department of Fisheries and Oceans (DFO). Other crown titles include a 2.3 ha road realignment area (No. 162161) south of the proposed quarry boundary (**Figure 2 & 3**). The road realignment of Route 301 is ongoing and is being completed by J-1 for the Department of Transportation and Infrastructure. Currently Route 301 passes through the southern permit boundary within the mixed municipal land zoning where quarrying is not permitted. Following the road realignment the proposed southeastern permit area will be a minimum of 50 m north of Route 301 (**Figure 3 & 6**).

The proposed quarry site is undeveloped, naturally vegetated with predominantly trees and ranges in elevation from ~105 m to ~123 m in elevation. The topography is mostly flat lying with a gentle decline towards the southwest. Site drainage is expected to follow this gradient through highly permeable sand and gravel (**Section 4.4.5**). A 5 m wide permit boundary buffer zone will be maintained for windrowed grubbing material which serves to restrict access, control drainage and minimize visibility to the quarry site. A wetland area is located ~70 m northwest of the western permit boundary at its closest point while the Terra Nova River is ~300 m at its closest point (**Figure 3**). This allows for the required buffer distance from all watercourses, wetlands and waterbodies as required by the Mineral Lands Division of DIET.

4.2.2 Existing Biophysical Environment

The quarry site is located within the *Northcentral Subregion* of the *Central Newfoundland Forest Ecoregion*. This region has higher summer maximum temperatures and lower rainfall than other portions of Newfoundland with the mean annual precipitation ranging

from 1000 mm to 1300 mm. The mean annual temperature is around 4.5°C, with a mean summer temperature of 12.5°C and a mean winter temperature of -3.5°C. Night frost can occur in any summer month and due to the warm summer and high evapo-transpiration losses.

The rolling and undulating topography contains shallow, medium quality till with soil texture ranging from sandy loam to loam. The surficial geology underlying the soil and till is classified as glaciofluvial gravel and sand and overlies the bedrock in variable thicknesses. This material often contains very little silt or fine clays and is naturally highly permeable. Forest growth by Balsam fir, black spruce and aspen broadly dominate this area. Forest growth may be poor in higher, rugged, and rocky terrains.

Numerous fish species reside in the nearby Terra Nova River including Atlantic salmon, brook trout American eel, rainbow smelt, and stickleback. Established buffer zone widths to the watercourse and waterbodies are beyond the required 50 m minimum distance to help ensure the protection of fish habitat adjacent to the quarry. Additionally, the treatment of site water to remove suspended fine-grained particles will ensure no harmful effects on the surrounding environment.

4.2.3 Site Visibility

The closest receptors to the quarry permit application area are public road users of Route 301 which the current alignment passes through the southern permit boundary (**Figure 3**). A mixed zone that buffers Route 301 where Mineral Workings are prohibited will provide a natural forest screen and reduce negative visual impacts of the quarry site to the public road users (**Figure 6**). Once the municipal zoning has been adjusted to reflect the new location of Route 301 the southern permit boundary will be ~50 m from Route 301 at its closest point (**Figure 6**). Reclamation (**Section 4.7**) of all future developed and quarried areas will promote revegetation and help minimize any negative visual impacts.

Other sensitive receptors to the project area include residents of the town of Terra Nova located ~1.9 km to the west (**Figure 4**). The visibility of the proposed quarry site from the town will be minimal due to the gentle rise in topography that will hide the development area from residents behind the natural landscape (**Figure 5**). Additional screening methods may be used to conceal the site operations by creating perimeter berms from stripped grubbing within the 5 m permit boundary zone (**Figure 3**). This berm will help to conceal the entire quarry area from westerly and southerly views. During quarry development the site area will be lowered in 5 m high increments thus further concealing visibility of the quarry floor from receptors.

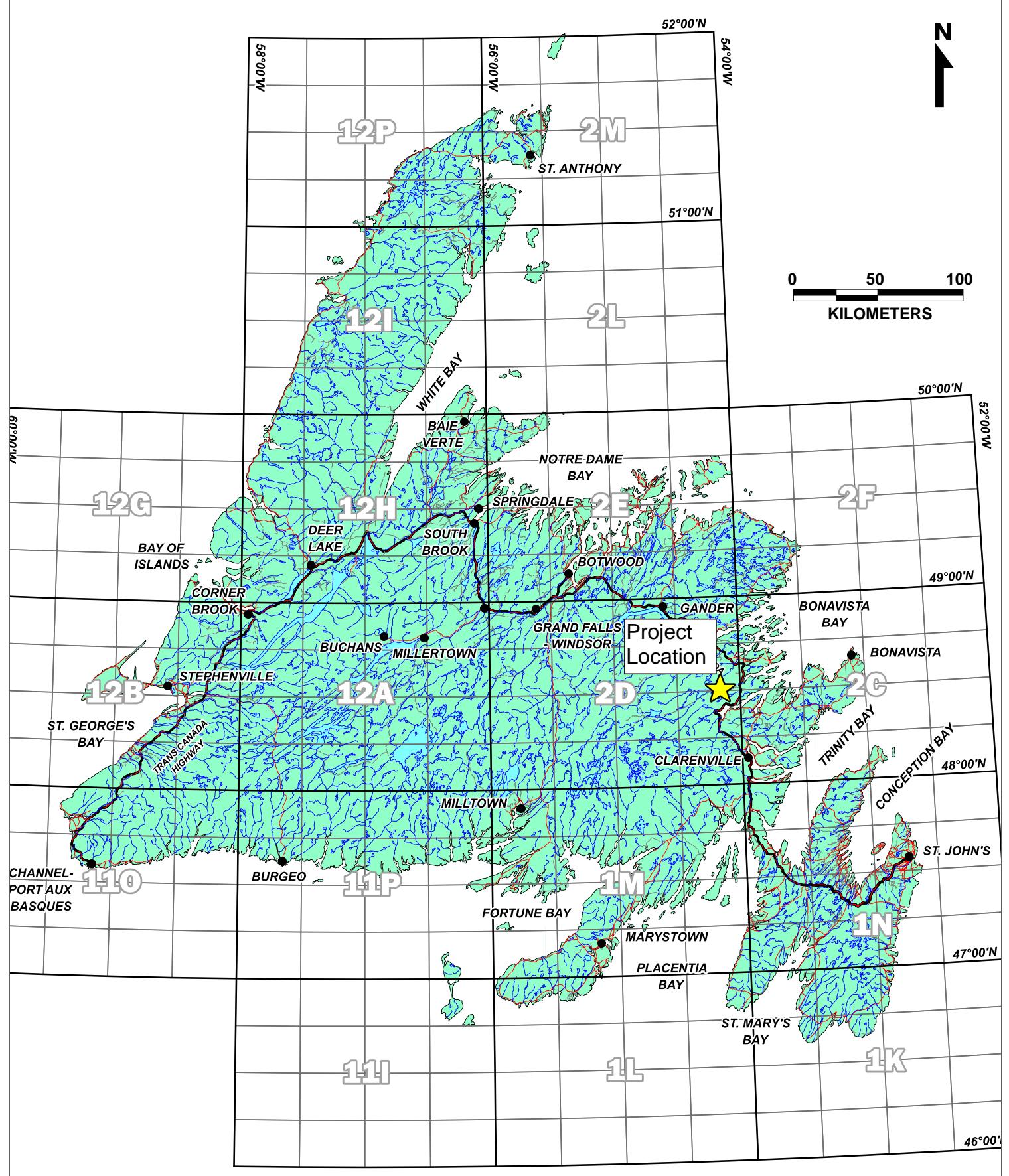


Figure 1: Project Location Map (N.T.S. 2D/09)

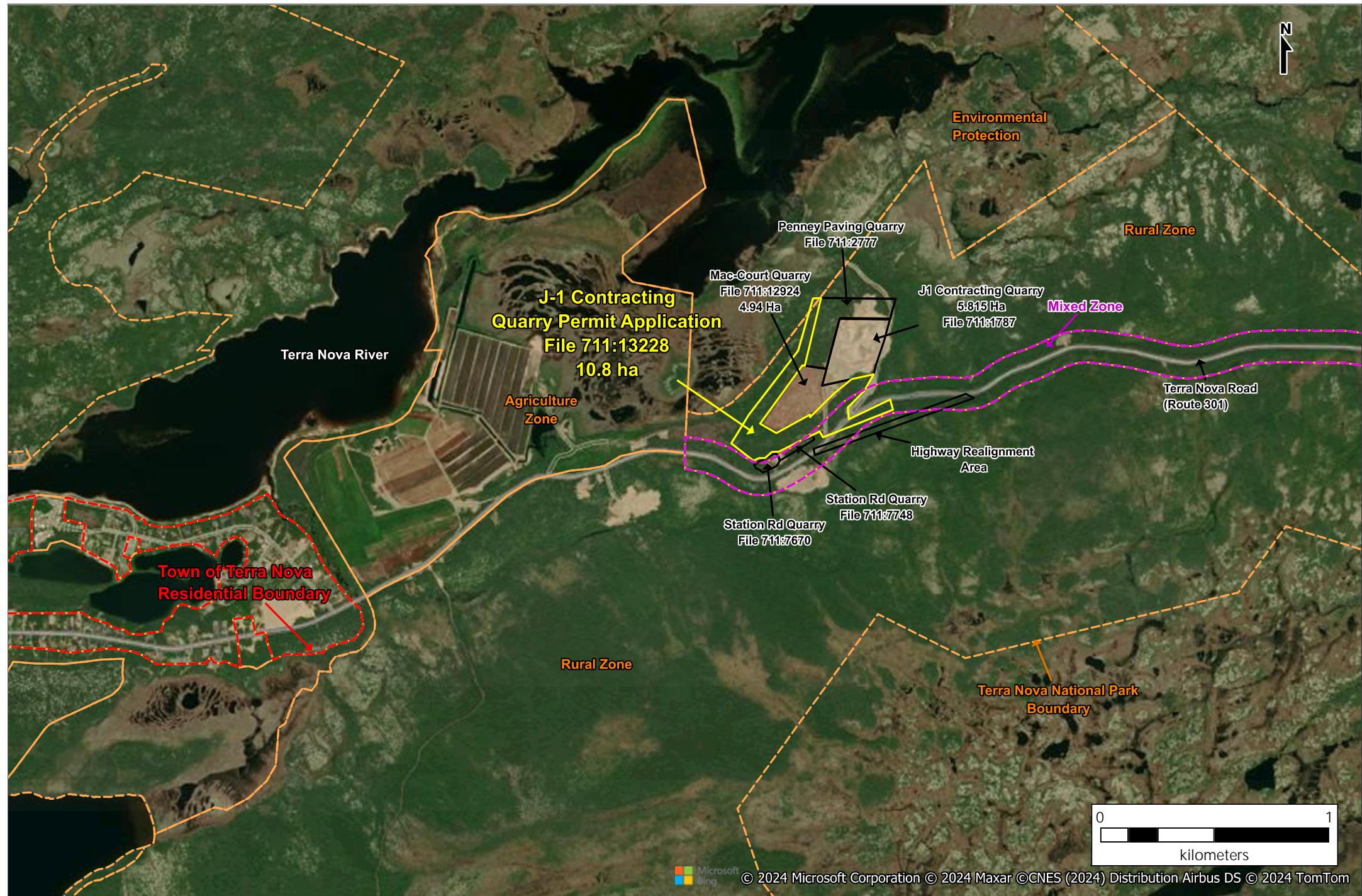


Figure 2: Detailed Project Location

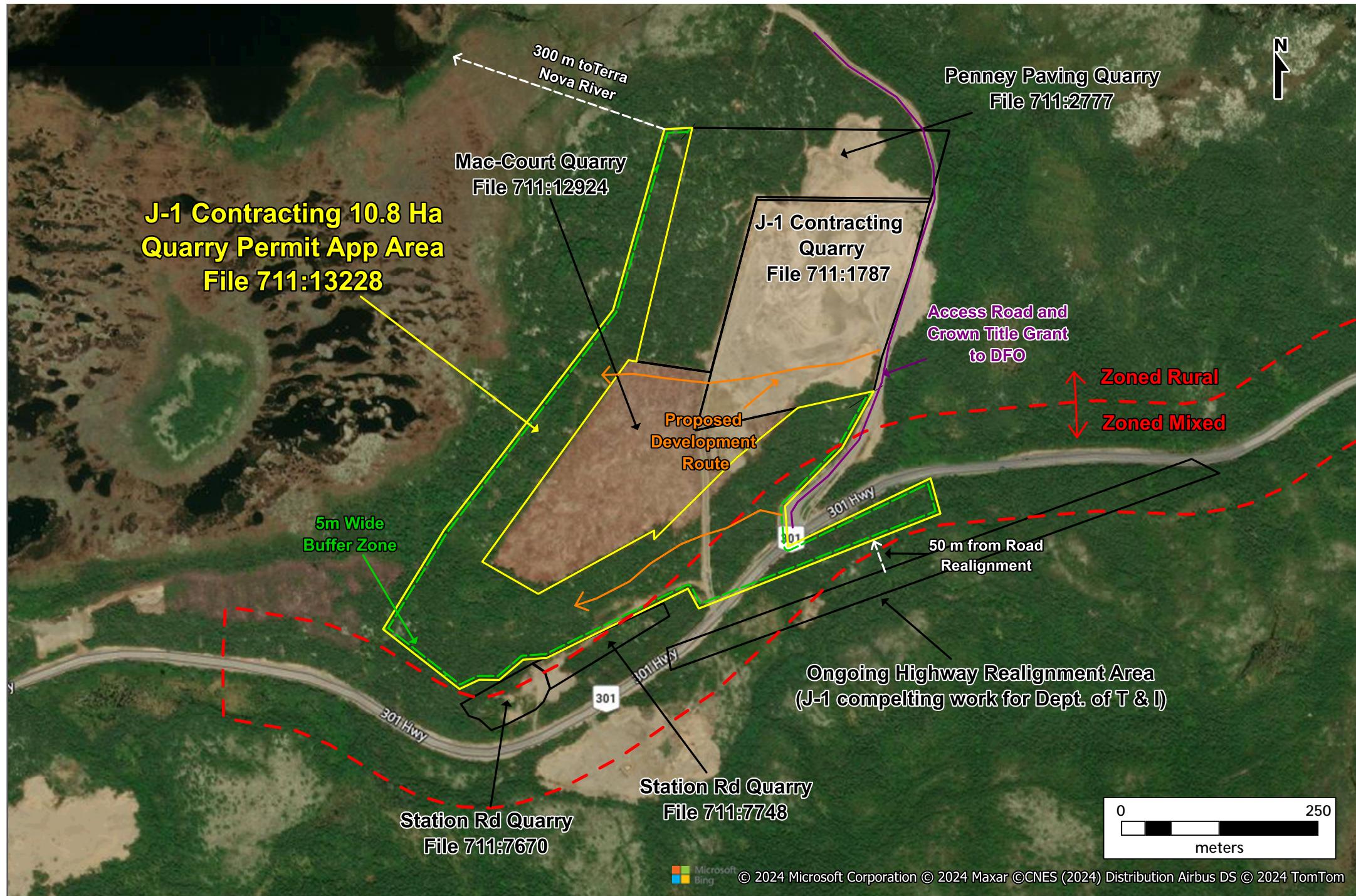


Figure 3: Quarry Permit Location

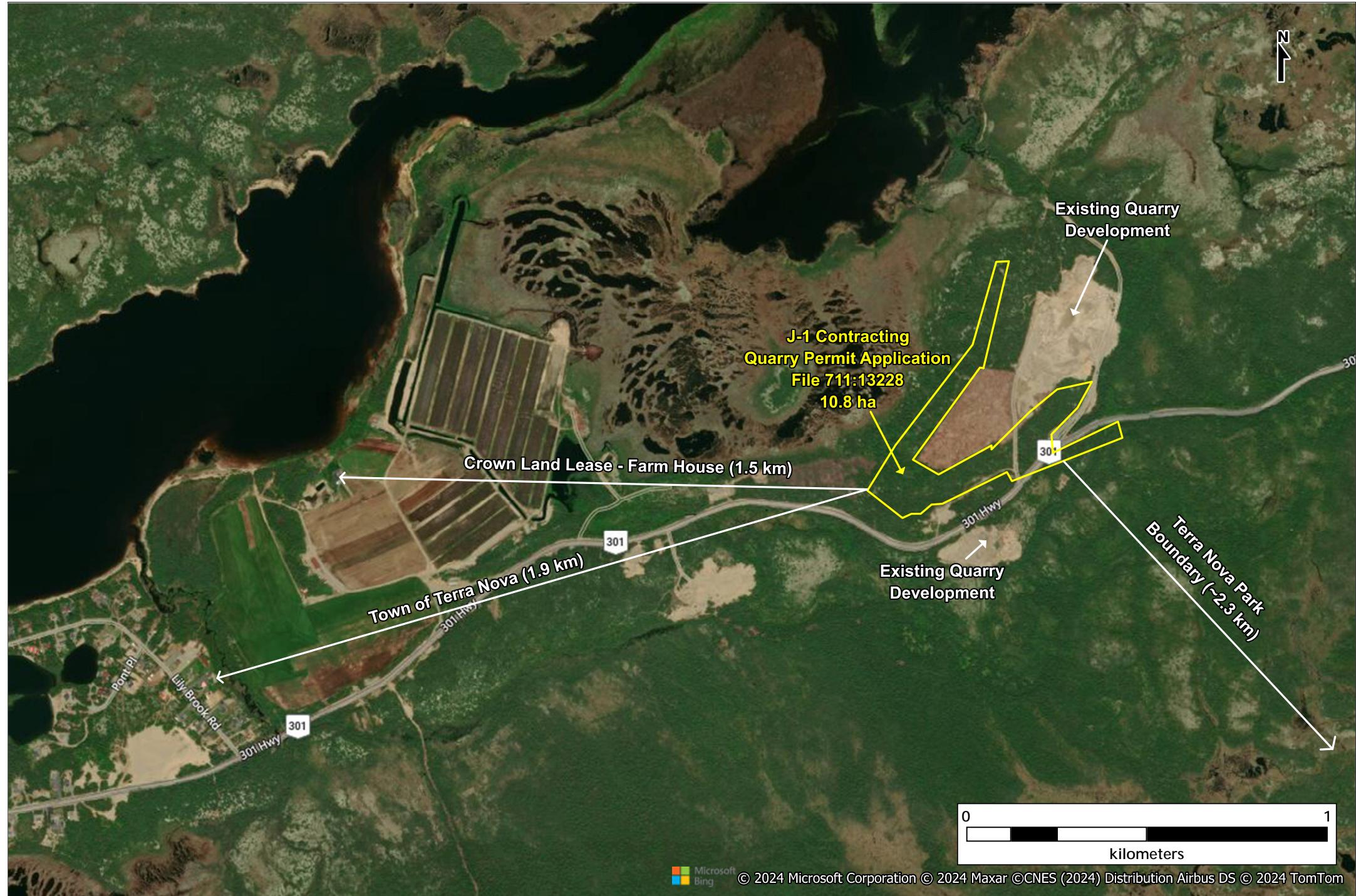


Figure 4: Receptor Locations

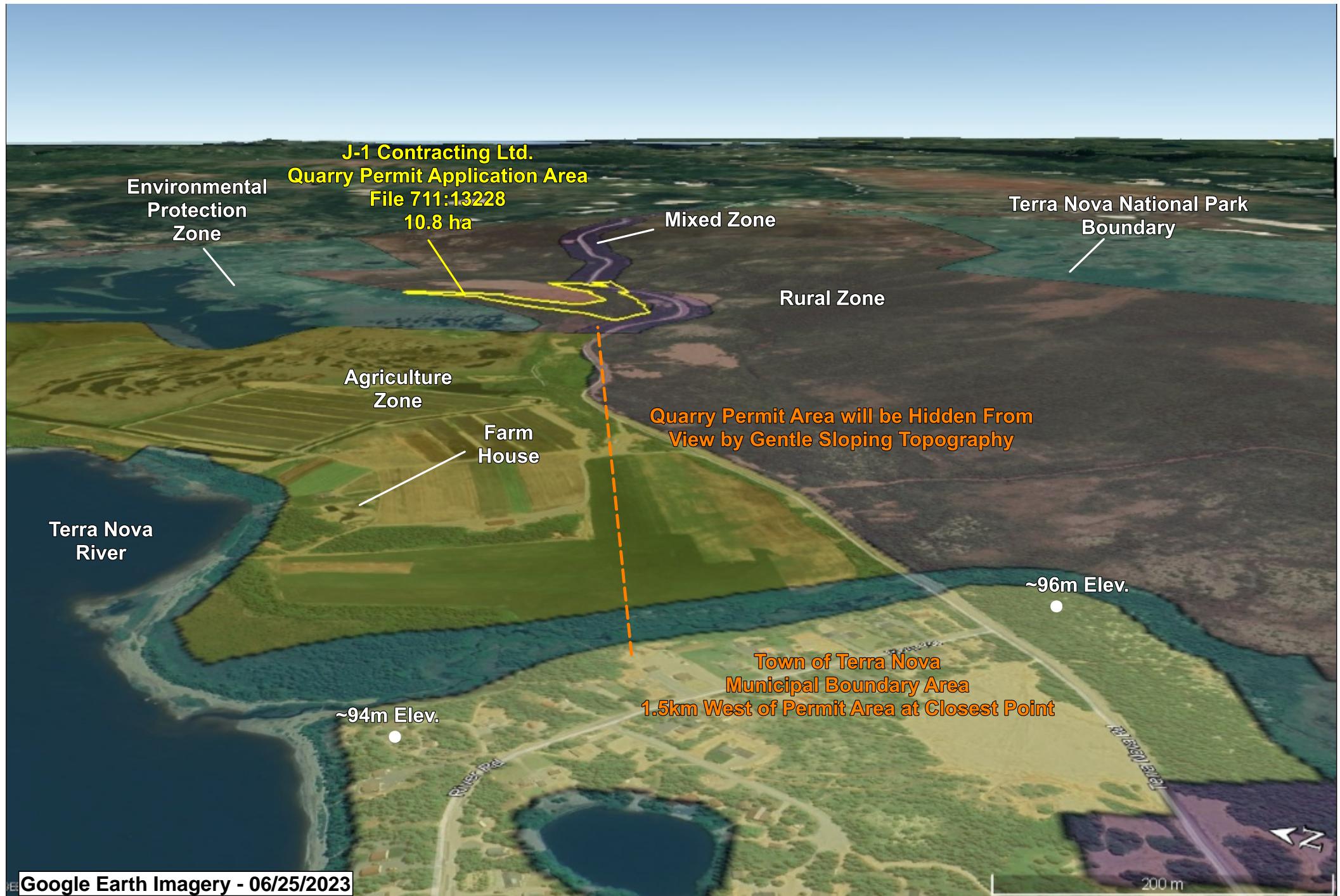


Figure 5: Example of site Visibility from the West (Looking East) - Aerial View

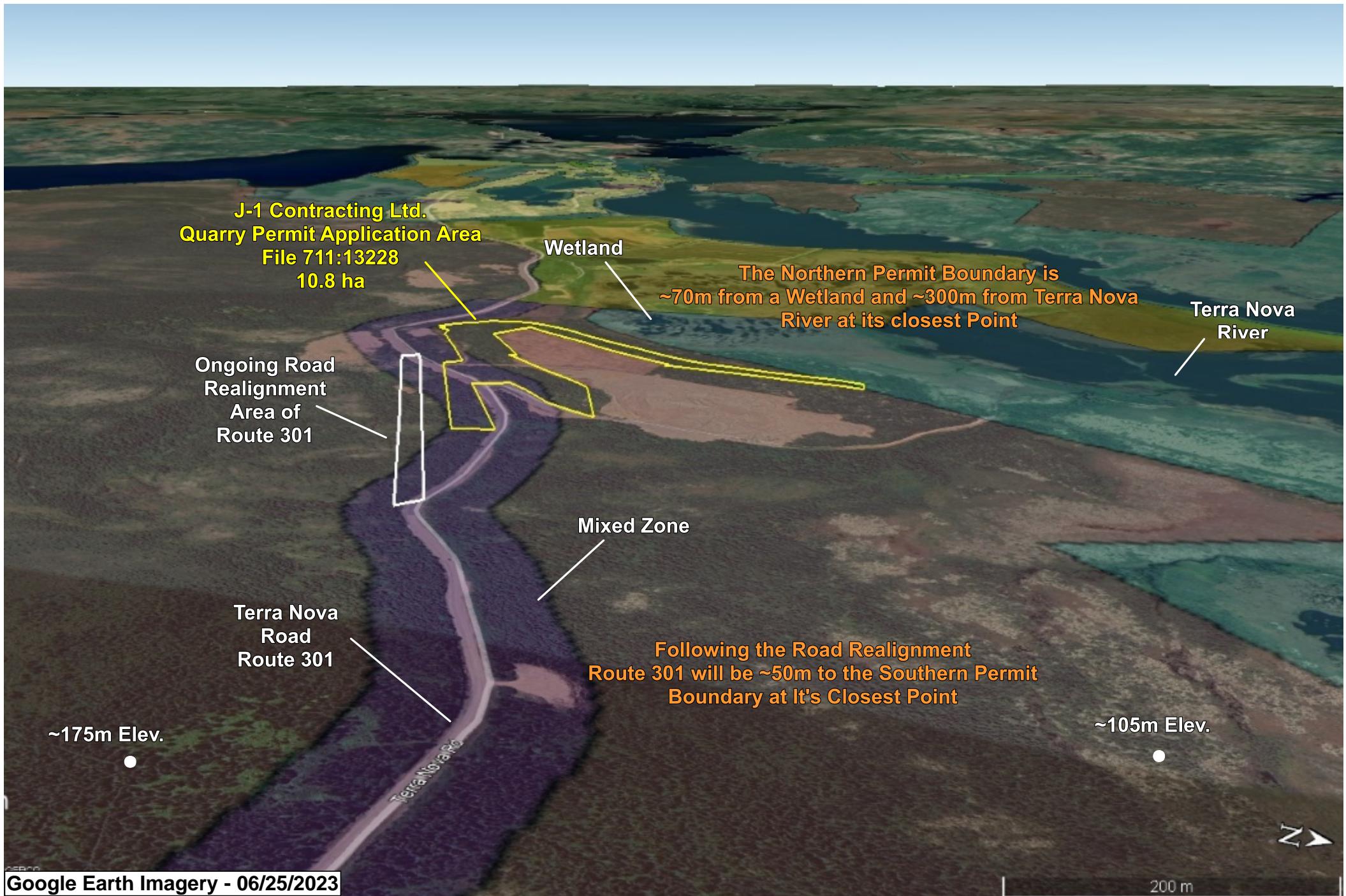


Figure 6: Example of site Visibility from the East (Looking West) - Aerial View

4.3 Construction, Operation and Maintenance

The development operations within the proposed quarry site will utilize J-1's adjacent quarry site (File 711:1787) and the existing heavy equipment used for the quarry operation. To develop the available sand and gravel resources in the project area the site will be cleared of the overlying vegetation, topsoil, and mineral soils. This material will be sorted and used for perimeter berms for preservation and use as future reclamation material to cover the developed area and promote revegetation. The underlying unconsolidated material will be excavated, screened, and stockpiled accordingly. The material stockpiles will be exported off site and used for winter road sand and asphalt production in the region. The quarry layout will evolve over time to ensure the processing operations are completed in a cost effective and safe manner.

4.3.1 Site Access

Access to the proposed quarry site is gained by travelling ~11.5 km west from the Trans-Canada Highway along Terra Nova Road (Route 301). A ~ 1 km long gravel access road branches from Route 301 leading north to the quarry site along the eastern boundary of the permit application area (**Figures 2 and 3**). There is currently no security gate along the access road since it is a Crown Title grant to Department of Fisheries and Oceans. Site access is restricted to J-1's existing quarry lease (File 711:1787). Additionally, the proposed quarry site will be restricted from public users by placing boulders along its eastern boundary as required. Access within the proposed quarry area will fluctuate during development and may be routed through Mac-Court Holding's quarry site (File 711: 12924) to access the western portion of the boundary upon written approval from the quarry owner being received.

4.3.2 Site Clearing

The 10.8 ha quarry permit area is currently undeveloped and naturally vegetated with forest. During site clearing any merchantable timber will be cleared either by handheld chainsaws or mechanical harvester equipment and will be garnered under a commercial cutting permit issued by the Department of Fisheries, Forestry and Agriculture. Surficial soils, subsoils and grubbing will be stripped and windrowed to the permit boundary for preservation. This reclamation material may be used to construct perimeter berms which help restrict access and visibility of the site. The organic topsoil layer will be preserved separately for eventual reclamation to cover the developed area upon completion of the quarry. It is anticipated that site clearing will be completed in smaller footprint areas

following a logical development sequence that would be typically defined in a set of quarry plans.

4.3.3 Quarry Development and Operation

The development of the proposed 10.8 ha quarry site, following site clearing, will involve excavating the sand and gravel material using heavy equipment, followed by crushing screening, stockpiling and exporting of the material off site. The adjacent J-1 quarry operations (file 711:1787) will be utilized during quarry development to make operations more cost effective and efficient. Temporary access through the Mac Court Holdings quarry (File 711: 12924) may be required to access the remaining western portion of the permit area also. To avoid interfering with nearby quarry operations, site development will begin in the eastern extent of the permit boundary in the rural zoning (**Figure 3**) and progress towards the west.

The targeted glaciofluvial sand material is concealed by an upper layer of coarser sand that is variable in thickness and will be removed and/or screened and then stockpiled separately from the priority asphalt blending sand. This screened coarse material may be used as potential winter maintenance sand or in other aggregate products. Excavating the targeted sand material will occur in ~5 m high development benches. Production volumes of the materials are to be planned in phases with a footprint area that will meet estimated annual demands for the material (~5,000 m³). The quarry design will ensure that quarry depths are above the groundwater table and allow drainage of surface water from the entire quarry permit area along constructed drainage channels.

Operational activities will involve excavating material with an excavator, transporting with loaders to the mobile crushing and screening area, and stockpiling accordingly where it can be easily loaded into dump trucks for export off site to asphalt production facilities. The oversized material may be crushed or stockpiled separately awaiting use in various other end products. The crusher/ screener setup will be mobile and moved as required to ensure efficient processing and operations. No additional secondary processing is required (i.e. washing). The only water used on site will be imported in tanks or water trucks to spray selected areas during extremely dry conditions to prevent the generation of excessive dust. Quarry operations will generally occur between April and December of each year, with any schedule changes corresponding to the seasonal demand for the blending sand product. All extraction activities will adhere to the Government of Newfoundland and Labrador's Occupational Health and Safety Regulations under the Occupational Health and Safety Act.

4.4 Potential Sources of Pollution During Construction and Operation

The construction and operational phases of the proposed quarry development will utilize equipment such as chainsaws, timber harvesting equipment, front end loaders, excavators, and dump trucks. This equipment and related activities represent a potential source of noise disturbance, exhaust emissions, petroleum and hydrocarbons, dust, domestic waste, and general refuse to the surrounding environment. It is the responsibility of J-1 to ensure that the operating equipment used on site is maintained, and that standard Occupational Health and Safety protocols for quarry development are followed. J-1 will ensure that the quarry site has an emergency response plan, and that necessary emergency response equipment is available to address hazards related to fire and spills thus protecting the workers, nearby community residents and the environment. During all stages of the proposed quarry development consistent monitoring by the operator of the site and operating equipment will ensure that potential sources of pollution are identified, and appropriate steps are taken to mitigate hazards to the surrounding environment.

4.4.1 Air

Air pollution could be generated in the form of exhaust fumes from operating equipment and dust from airborne clay particles in the quarry. Exhaust fumes will be minimized by ensuring that all mechanical equipment using combustion engines contains functioning emission-control devices fitted to the exhaust system. These devices reduce harmful pollutants contained in the exhaust. When heavy equipment is not in operation it will be shut down to maximize fuel efficiency and minimize unnecessary exhaust fumes. Dust created from the quarry operations will be controlled by minimizing the development footprint and stripping overburden from only the required production areas in sequence and not all at once. The dust generated by heavy equipment on the quarry floor or access roads will be mitigated during very dry periods by using mobile watering trucks to suppress silt particles from becoming airborne. All activities within the quarry will be conducted in a manner that respects the province's *Air pollution Control Regulations (2004)*.

4.4.2 Noise and Vibration

The quarry site is expected to generate a typical amount of noise expected from operating heavy equipment. The use of blasting and crushing techniques are not required on site. The expected sound levels will not exceed those generated by past and ongoing quarry operations in the area. The creation of berms and development benches in addition to the natural forest buffer will provide noise obstruction to the residents of Terra Nova and public roadway commuters. All mechanical equipment used in the operations will be maintained to ensure that the decibel levels produced do not exceed the manufacturing

standard. The work site will be a controlled environment whereby operations occur during daytime work hours and meet the regulations for Occupational Health and Safety.

4.4.3 Domestic Waste and Sewage

Domestic waste generated from human activity on the proposed quarry site will be contained and removed from site for later disposal in approved waste and sewage management areas. Portable lavatories within the proposed quarry boundaries will be utilized as required during production and operation of the site. Garbage and food waste will be kept for later disposal off-site and not littered on the quarry floor. Domestic waste will be collected and disposed of in accordance with the Environmental Protection Act 2002 by a local waste management service provider.

4.4.4 Fuel

Fuel used by heavy equipment on site will be delivered directly by a petroleum product service company as required. No fuel storage tanks will be located on the site. The refueling of equipment on site will comply with the Storage and Handling of Gasoline and Associated Products Regulations. Emergency spill response kits will always be available on-site during quarry operations for containment and cleanup of any hydrocarbon leaks from malfunctioning equipment. All mechanical equipment using fuels will be kept in good operating order with regular inspections and servicing by certified mechanics to prevent incidents of hydrocarbon spills. Any leaks or spills of more than 70 liters will be reported to the Environmental Emergency Telephone Line, cleaned up immediately and contained.

4.4.5 Effluent

The effluent generated during quarry operations is likely to be in the form of surface water runoff transporting fine-grained particles from the quarry floor. This could occur at any time of development during rainfall events though most surface water is expected to drain through the unconsolidated sand and gravel material making up the quarry floor and subsurface. Monitoring drainage will occur during all stages of quarry development to ensure appropriate mitigation techniques are used for treating site water runoff. These measures, though circumstantial, will be in line with industry best management practices to reduce suspended fine-grained particles.

Site runoff will initially follow the natural topography of the permit area towards areas of lower elevation and into natural vegetation outside of the proposed quarry boundaries. Shallow ditching in the quarry floor will ensure runoff is collected and drained away from the operations. The installation of rock check dams, hay bales, and silt fencing in drainage

areas will filter or remove suspended fine-grained particles from site water before exiting the boundary. During major rainfall events additional areas may be constructed to temporarily hold water within the quarry and allow for suspended fine-grained particles to settle out. All surface water discharged from the quarry site into the surroundings will meet the regulatory requirements of the *Environmental Control Water and Sewage Regulations (2003)*.

4.5 Potential Resource Conflicts During Construction and Operation

The proposed quarry area is situated near a National Park, a Salmon River and the town of Terra Nova. As such the potential resource conflicts during operation of the proposed quarry site could include tourism, use of the area for recreational purposes such as salmon fishing, hunting, berry harvesting, encounters with wildlife and domestic wood cutting.

The proposed quarry site will not limit the accessibility of the region used for tourism or recreational activities such as salmon fishing, big and small game hunting or berry picking. Development will only occur in areas of rural zoning where Mineral Workings is permitted and not in mixed zoning, as rezoning to occur after road realignment, or the environmental protection areas. The proposed quarry boundaries allow for the regulated buffer distance to any waterbody, watercourse or wetland thus protecting the natural environment that is valued by tourists and recreational users.

Wildlife occurrences surrounding the Terra Nova National Park are common. However, due to the proximity of the proposed quarry site to the town of Terra Nova and an active quarry area, further development is not anticipated to impact wildlife species. Any encounter with wildlife will follow regulations stated in the Wildlife Regulations under the *Wildlife Act (CC. 96-809)* and legislative requirements for areas known to have pine marten. Domestic waste will be disposed of off-site to avoid attracting wildlife.

The 10.8 ha quarry permit area is within a domestic cutting area that encompasses over 6,000 ha of forest in the region. The amount of available merchantable timber in the proposed quarry area is low in comparison to the broad domestic cutting area and is not expected to cause conflicts with potential harvesters.

The quarry area is located ~70 m southeast of a wetland adjacent to the Terra Nova River, and beyond the regulated buffer distance required from all waterbodies (including wetlands) required by the Mineral Lands Division of the DIET and the Water Resources Management Division of the Department of Environment and Climate Change. Precautionary measures to prevent suspended solids from reaching any watercourses

are components of the proposed quarry development plan, as discussed in **Section 4.4.5** and summarized as follows:

- Within the proposed quarry area, a 5 m wide buffer zone alongside all permit boundaries will be left intact where no materials will be excavated, except where the boundary overlaps with other quarry operators. Perimeter berms will be constructed from the windrowed organic and grubbing material placed within the 5 m buffer area along the external boundary that buffers Crown Land.
- During development the quarry floor will be kept lower than the perimeter berms where present to contain surface water run-off within the quarry site and will be directed along drainage channels in the quarry floor.
- Surface water run-off from the entire quarry area will be controlled and filtered of suspended fine-grained particles through check dams, hay bales and silt fencing prior to exiting the quarry boundary into naturally vegetated areas.

4.6 Occupation

The occupations required for the proposed quarry site are listed below and classified as per the National Occupational Classification (2016):

Construction

- 1 Quarry Supervisor (8221)
- 2 Heavy Equipment Operators –Excavator/Dump Truck (7521)
- 1 Heavy Equipment Operator – Tree Harvester/Mulcher (7521)

Operation

- 1 Quarry Supervisor (8221)
- 1 Heavy Equipment Operator – Loader/Excavator (7521)
- 1 Heavy Equipment Operator – Screener (7521)
- 3 Heavy Equipment Operators (amount may vary on demand) – Tandem, Tandem-Tandem, or Semi Dump Trailers (7521)

The operation of the quarry will require up to 6 employees to run at the anticipated production rate of ~5,000 m³ annually, although fluctuations in material demand may lead to a change in the number of required employees and annual production volumes.

4.7 Reclamation and Closure

The quarry project will be rehabilitated under an approved reclamation plan and quarry permit issued to the proponent by the Department of Industry, Energy and Technology. All exposed quarry faces will be a maximum of 5 m in height and sloped to 30-degrees using sand and gravel material. Catch benches will be placed at the toe of each 30-degree slope if multiple development faces are created. Preserved organic material that was stripped during the construction phase will be re-spread over the quarry floor and sloped quarry faces to promote natural revegetation. Rehabilitation can begin once the quarry development has exhausted available material resources within the quarry permit boundary and is no longer usable for the operations. Rehabilitation will be completed in stages across all areas of quarry development.

5.0 APPROVAL OF THE UNDERTAKING

Table 1 on the following page contains a list of referral agencies, responses received, and possible permits required for the project, some of which are already in progress.

6.0 SCHEDULE

The proposed schedule for this project is as follows:

Submission of Registration Document	June 2024
Review of Submission Document by Government	August 2024
Commencement of Construction and Operations	September 2024

Table 1: Referral Agencies, Responses and Possible Permits Required

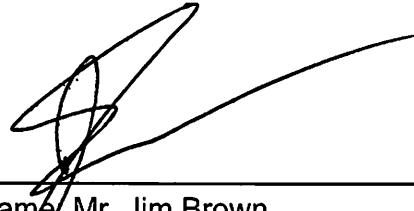
Department/Regulatory Agency	Status	Possible Required Approvals/Permits or Comments
Provincial Archaeology Office	Approved	
Municipal Affairs and Environment - Water Resources Management Division	Conditional Approval	Adhere to WRMD Regulations
NAV Canada	Approved	
Environment and Climate Change - Natural Areas	Approved	
Environment and Climate Change - Environmental Assessment Division	Project Registration Required	Environmental Assessment Registration
Digital Government & Service NL – Environmental Protection	Conditional Approval	Adhere to Set Regulations
Industry, Energy and Technology – Mines Branch	Under Review	
Industry, Energy and Technology - Mineral Lands Division	Under Review	Quarry Lease Plans to be Drafted After EA Release
Municipal and Provincial Affairs	Conditional Approval	Municipal Plan Restrictions (No Mineral Workings in Mixed Use and Environmental Protection Areas)
Town of Terra Nova	Conditional Approval	Development Permit Required
Industry, Energy and Technology – Energy Development	Approved	
Transportation and Infrastructure	Approved	
Tourism, Culture, Arts and Recreation - Tourism	Conditional Approval	Apply Appropriate Screening Techniques to Avoid Negative Visual Impact to Highway
Tourism, Culture, Arts and Recreation – Parks NL	Approved	
NL Power	Approved	
Fisheries, Forestry and Agriculture - Fisheries	Approved	Submit Request for Review
Fisheries, Forestry and Agriculture - Forestry	Approved	Operating Permit & Commercial Cutting Permit
Fisheries, Forestry and Agriculture - Crown Lands	Approved	DFO Crown Title to Utilize Access Road in Application Area

7.0 FUNDING

Funding for the construction and operation of the project will be provided entirely by the proponent.

8.0 LIMITATIONS

This environmental registration document was prepared by NCD Consulting Ltd. in consultation with J-1 Contracting Ltd. for their use under the terms defined in a written contract between the two parties. The information included in this document was provided by the client and relates to the scope of this proposed project exclusively. NCD Consulting Ltd. has collaborated with the client and utilized NCD's combined extensive knowledge in quarry development and potential environment related concerns to, as accurately as possible and with the information available at the time of drafting this document, layout the development of the site in a safe and environmentally sustainable manner.



Name: Mr. Jim Brown
Position: President
J-1 Contracting Ltd.

June 10/24

Date