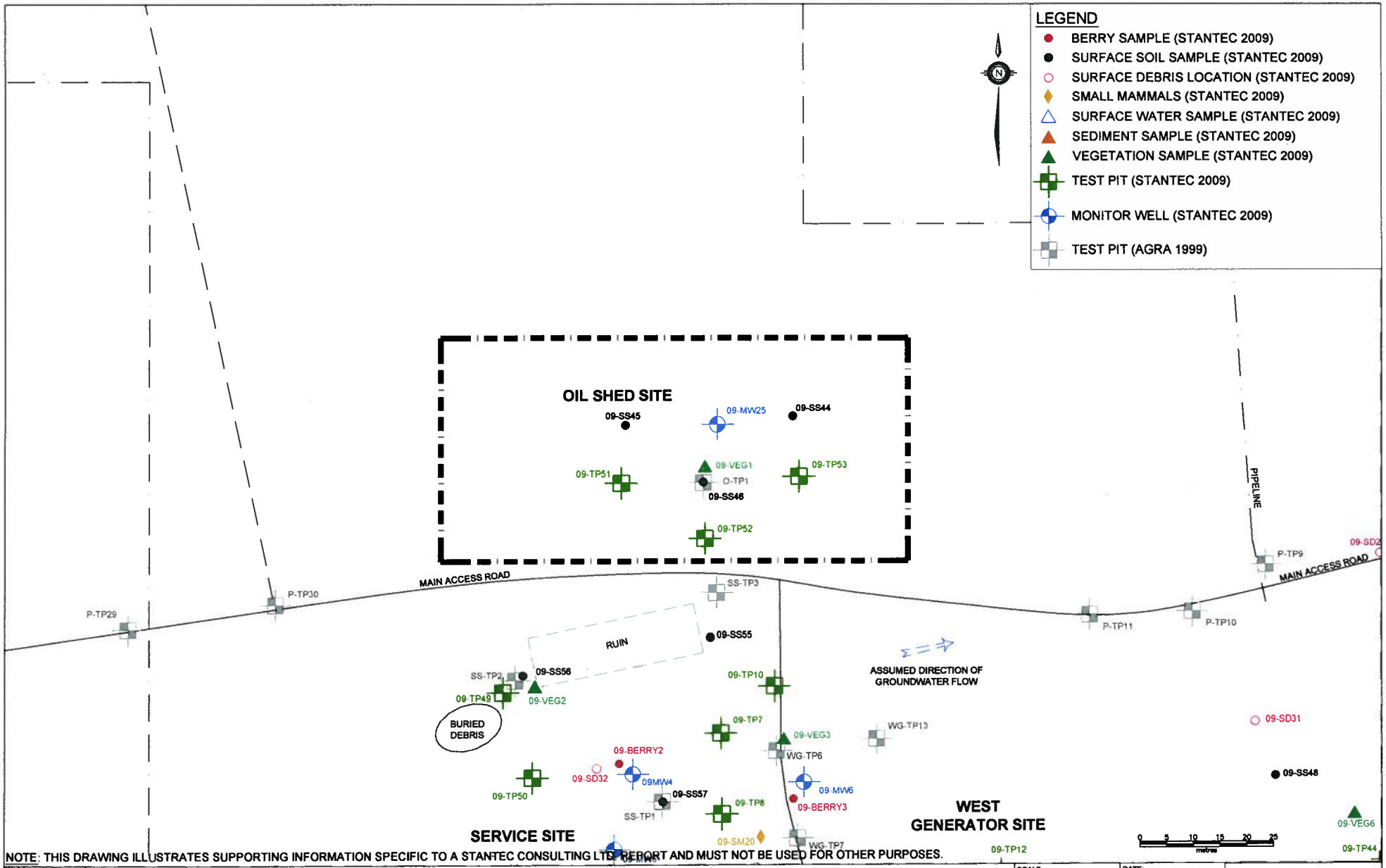
Appendix 11a

Site Drawings

– Oil Shed Site



NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

CLIENT: NEWFOUNDLAND AND LABRADOR DEPARTMENT OF ENVIRONMENT AND CONSERVATION

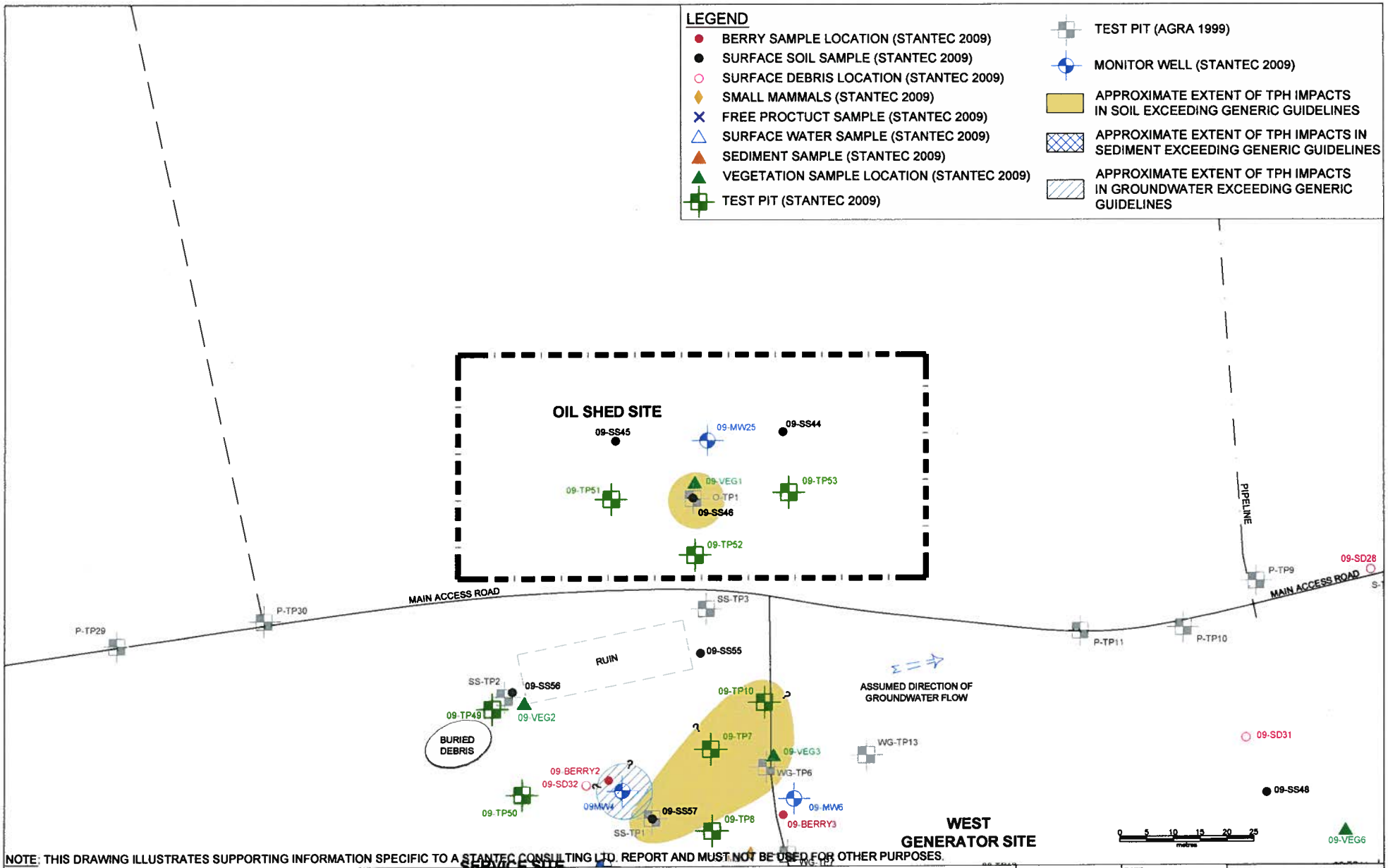
PROJECT TITLE: PHASE III ENVIRONMENTAL SITE ASSESSMENT, HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENTS, REMEDIAL ACTION PLAN FOR THE FORMER U.S. MILITARY FACILITY OF NORTHWEST POINT, NL

DRAWING TITLE: SITE PLAN - OIL SHED SITE

SCALE: 1:800	DATE: JUNE 17, 2010
DRAWN BY: N.M.	CHECKED BY: A.R.
EDITED BY: R.L.	REV. No. 0
DRAWING No: 121410105-EE-11A	
CAD FILE: 1044857-EE-07.DWG	

Stantec

20JUL11 12:40PM



NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

CLIENT: NEWFOUNDLAND AND LABRADOR DEPARTMENT OF ENVIRONMENT AND CONSERVATION

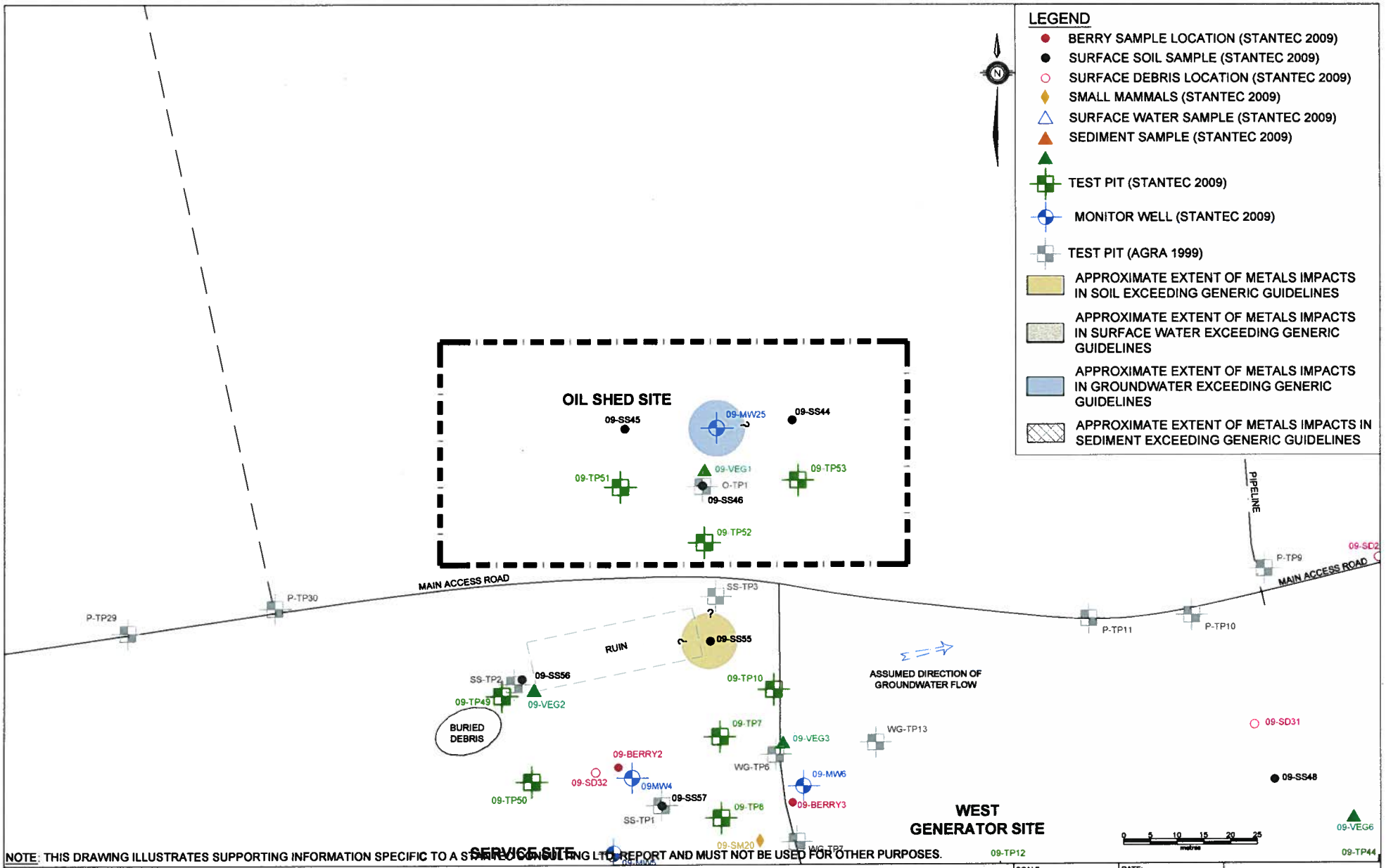
PROJECT TITLE: PHASE III ENVIRONMENTAL SITE ASSESSMENT, HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENTS, REMEDIAL ACTION PLAN FOR THE FORMER U.S. MILITARY FACILITY OF NORTHWEST POINT, NL

DRAWING TITLE: APPROXIMATE EXTENT OF TPH IMPACTS EXCEEDING GENERIC GUIDELINES - OIL SHED SITE

SCALE: 1:800	DATE: JUNE 18, 2010
DRAWN BY: N.M.	CHECKED BY: A.R.
EDITED BY: R.L.	REV. No. 0
DRAWING No: 121410105-EE-11B	
CAD FILE: 1044857-EE-10.DWG	

Stantec

20JUL11 12:40PM



NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

CLIENT:
NEWFOUNDLAND AND LABRADOR DEPARTMENT OF ENVIRONMENT AND CONSERVATION

PROJECT TITLE:
PHASE III ENVIRONMENTAL SITE ASSESSMENT, HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENTS, REMEDIAL ACTION PLAN FOR THE FORMER U.S. MILITARY FACILITY OF NORTHWEST POINT, NL

DRAWING TITLE:
APPROXIMATE EXTENT OF METALS IMPACTS EXCEEDING GENERIC GUIDELINES - OIL SHED SITE

SCALE: 1:800	DATE: JUNE 21, 2010
DRAWN BY: N.M.	CHECKED BY: A.R.
EDITED BY: R.L.	REV. No. 0
DRAWING No: 121410105-EE-11C	
CAD FILE: 1044857-EE-11.DWG	

Stantec

20JUL11 12:40PM

Appendix 11b

Sample Coordinates

– Oil Shed Site

Sample Coordinates - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Sample ID	Coordinates (NAD27)	
	Easting	Northing
TEST PITS		
09-TP51	694154	5931227
09-TP52	694163	5931216
09-TP53	694175	5931228
MONITOR WELLS		
09-MW25	694161	5931241
SURFACE SOIL		
09-SS44	694170	5931231
09-SS45	694157	5931243
09-SS46	694162	5931231
VEGETATION		
09-VEG1	694162	5931224

Appendix 11c

Test Pit Records and Monitor Well Records

– Oil Shed Site

TEST PIT RECORD

CLIENT: NL Department of Environment and Conservation
PROJECT: Phase III ESA, HHRA & ERA, Former US Military Facility
LOCATION: Northwest Point, NL
DATES (mm-dd-yy): DUG 8-7-09 WATER LEVEL 1.8m 8-7-09

TEST PIT No. 09-TP51
PROJECT No. 121410105
DATUM

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	HYDROCARBON ODOUR	SAMPLES OTHER TESTS	PID READINGS (ppm)	CHEMICAL ANALYSIS (ppm) TPH	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
0														
		Loose to compact, brown, SAND with gravel (SP)			BS	1	0		2.3	-	-	-	-	-
1		Compact, grey, SAND with silt (SP-SM); trace clay		▽	BS	2	0		5.1	nd	nd	nd	nd	nd
2		End of Test Pit Very slow groundwater seepage observed at 1.8 m depth. Bedrock not encountered.												
3														
4														
5														

Stantec

TEST PIT RECORD

CLIENT **NL Department of Environment and Conservation**
PROJECT **Phase III ESA, HHRA & ERA, Former US Military Facility**
LOCATION **Northwest Point, NL**
DATES (mm-dd-yy): DUG **8-7-09** WATER LEVEL **2.6m** **8-7-09**

TEST PIT No. **09-TP52**
PROJECT No. **121410105**
DATUM

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	HYDROCARBON ODOUR	SAMPLES OTHER TESTS	PID READINGS (ppm)	CHEMICAL ANALYSIS (ppm) TPH	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
0														
		Compact, brown, SAND with gravel (SP); some roots and rootlets, occasional cobbles			BS	1	0		1.4	-	-	-	-	-
1														
		Compact to dense, grey, SILT with sand (ML); trace clay		▽	BS	2	0		1.4	nd	nd	nd	nd	nd
2														
3		End of Test Pit Slow groundwater seepage observed at 2.6 m depth. Bedrock not encountered.												
4														
5														

Stantec

TEST PIT RECORD

CLIENT **NL Department of Environment and Conservation**
PROJECT **Phase III ESA, HHRA & ERA, Former US Military Facility**
LOCATION **Northwest Point, NL**
DATES (mm-dd-yy): DUG **8-7-09** WATER LEVEL **2m** **8-7-09**

TEST PIT No. **09-TP53**
PROJECT No. **121410105**
DATUM

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES HYDROCARBON ODOUR	SAMPLES OTHER TESTS	PID READINGS (ppm)	CHEMICAL ANALYSIS (ppm) TPH	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
0														
		Compact, brown, SAND with gravel (SP)			BS	1	0		29	-	-	-	-	-
1														
		Compact to dense, grey, SILT with sand (ML); trace clay		▽	BS	2	0		0.0	nd	nd	nd	nd	nd
2														
		End of Test Pit Very slow groundwater seepage observed at 2.0 m depth. Bedrock not encountered.												
3														
4														
5														

MONITOR WELL RECORD

BOREHOLE No. **09-MW25**
PAGE **1** of **1**
PROJECT No. **121410105**
DRILLING METHOD **Auger**
SIZE **100mm HS**
DATUM

CLIENT **NL Department of Enviroment and Conservation**
PROJECT **Phase III ESA, HHRA & ERA, Former US Military Facility**
LOCATION **Northwest Point, NL**
DATES (mm-dd-yy): BORING **8-12-09** WATER LEVEL **1.22m** **8-12-09**

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	HYDROCARBON ODOUR	APPARENT MOISTURE CONTENT	PID (ppm)	TPH (ppm)	WELL CONSTRUCTION DETAILS (0.61 m STICK UP)
0													CAST IRON WELL HEAD
0		Light and dark brown, SAND (SP); some cobbles			SS	1	255	10	0		0.0	-	BENTONITE
		Grey, SILT (ML)											
1		Dark brown, SAND (SP); some cobbles		▼	SS	2	355	10	0	M	0.0	-	
		Brown, SAND (SP)			SS	3	205	4	0		0.0	250	50 mm DIAMETER No. 10 SLOT PVC SCREEN IN No. 2 SILICA SAND PACK
2		Grey, silty SAND (SM)			SS	4	305	6	0	M	0.0	-	
					SS	5	305	25	0	M	0.0	-	
3													END CAP
		End of Borehole											
4													
5													
6													
7													
8													
9													
10													

Appendix 11d

Laboratory Analytical Results Summary Tables

– Oil Shed Site

Table 11.1 Results of Laboratory Analysis of TPH/BTEX in Soil - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Sample Location	Sample Depth (m)	Benzene	Toluene	Ethyl-benzene	Xylenes	TPH Purgeable ($<C_{10}$)	TPH Extractable (C_{10}-C_{32})	C_6-C_{10} (Gas Range)	C_{10}-C_{21} (Fuel Range)	C_{21}-C_{32} (Lube Range)	Modified TPH - Tier I[2]	Resemblance
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Tier I RBSLs[1]		0.16	14	58	17	-	-	-	-	-	690	-
1999 Sampling (AGRA)												
O-TP1	0.5	<0.002	<0.002	<0.002	<0.002	0.35	3,800	-	-	-	3,800	ODR
MDL	-	0.002	0.002	0.002	0.002	0.02	0.2	-	-	-	0.2	-
2009 Sampling (Stantec)												
09-TP51-BS2	1.6 - 2.0	<0.03	<0.03	<0.03	<0.05	-	-	<3	<15	<15	<20	-
09-TP52-BS2	1.4 - 1.8	<0.03	<0.03	<0.03	<0.05	-	-	<3	<15	<15	<20	-
09-TP53-BS2	1.8 - 2.3	<0.03	<0.03	<0.03	<0.05	-	-	<3	<15	<15	<20	-
09-MW25-SS3	1.2 - 1.8	<0.03	<0.03	<0.03	<0.05	-	-	<3	36	210	250	LO
RDL	-	0.03	0.03	0.03	0.05	-	-	3	15	15	20	-

Notes:
1 = Partnership in RBCA (Risk-Based Corrective Action) Implementation (PIRI) Tier I Risk Based Screening Levels (RBSLs) for a residential site with non-potable groundwater and coarse grained soil, lube oil impacts (September, 2003)
2 = Modified TPH - Tier I does not include BTEX
MDL = Method Detection Limit; RDL = Reportable Detection Limit for routine analysis
< # = Not detected above MDL/RDL noted
"-" = Indicates value is not available or does not apply
ODR = Outside diesel range; LO = Lube oil fraction

Table 11.2 Results of Laboratory Analysis of Metals in Soil - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Parameters	Units	Criteria[1]	2009 Sampling (Stantec)					
			09-MW25-SS3	RDL	09-SS44	09-SS45	09-SS46	RDL
Sample Depth (m)			1.2 - 1.8	-	0.0 - 0.15	0.0 - 0.15	0.0 - 0.15	-
Aluminum	mg/kg	-	5,500	10	3,500	3,700	4,000	10
Antimony	mg/kg	20	<2	2	2	<2	<2	2
Arsenic	mg/kg	12	<2	2	<2	<2	<2	2
Barium	mg/kg	500	43	5	45	37	44	5
Beryllium	mg/kg	4	<2	2	<2	<2	<2	2
Bismuth	mg/kg	-	<2	2	<2	<2	<2	2
Boron	mg/kg	-	<5	5	<5	<5	<5	5
Cadmium	mg/kg	10	<0.3	0.3	<0.3	<0.3	<0.3	0.3
Chromium	mg/kg	64	15	2	12	9	11	2
Cobalt	mg/kg	50	4	1	3	2	3	1
Copper	mg/kg	63	9	2	17	16	17	2
Iron	mg/kg	-	8,200	50	6,200	6,100	6,500	50
Lead	mg/kg	140	3.9	0.5	69	66	48	0.5
Lithium	mg/kg	-	5	2	3	3	3	2
Manganese	mg/kg	-	110	2	75	64	76	2
Mercury	mg/kg	6.6	<0.1	0.1	<0.1	<0.1	<0.1	0.1
Molybdenum	mg/kg	10	<2	2	<2	<2	<2	2
Nickel	mg/kg	50	8	2	6	5	6	2
Rubidium	mg/kg	-	8	2	6	5	7	2
Selenium	mg/kg	1	<2	2	<1	<1	<1	1
Silver	mg/kg	20	<0.5	0.5	<0.5	<0.5	<0.5	0.5
Strontium	mg/kg	-	8	5	7	6	7	5
Thallium	mg/kg	1	<0.1	0.1	<0.1	<0.1	<0.1	0.1
Tin	mg/kg	-	<2	2	<2	<2	<2	2
Uranium	mg/kg	23	0.3	0.1	0.3	0.2	0.2	0.1
Vanadium	mg/kg	130	18	2	15	15	16	2
Zinc	mg/kg	200	19	5	36	27	29	5

Notes:
1 = CCME Canadian Soil Quality Guidelines for Protection of Environmental and Human Health at a Residential/Parkland site (2007)
RDL = Reportable Detection Limit for routine analysis
< # = Not detected above RDL noted
"-" = No applicable guideline

Table 11.3 Results of Laboratory Analysis of PAHs in Soil - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Parameters	Units	Criteria[1,3]	Criteria[2,3]	1999 Sampling (AGRA)		2009 Sampling (Stantec)	
				O-TP1	MDL	09-SS46	RDL
			Sample Depth (m)	0.5	-	0.0 - 0.15	-
Non-carcinogenic PAHs							
1-Methylnaphthalene	mg/kg	-	-	-	-	<0.005	0.005
2-Methylnaphthalene	mg/kg	-	-	-	-	<0.005	0.005
Acenaphthene	mg/kg	-	-	<0.002	0.002	<0.005	0.005
Acenaphthylene	mg/kg	-	-	<0.001	0.001	<0.005	0.005
Anthracene	mg/kg	2.5	-	<0.001	0.001	<0.005	0.005
Fluoranthene	mg/kg	50	-	<0.001	0.001	0.027	0.03
Fluorene	mg/kg	-	-	<0.001	0.001	<0.005	0.005
Naphthalene	mg/kg	-	-	<0.002	0.002	<0.005	0.005
Perylene	mg/kg	-	-	<0.005	0.005	<0.005	0.005
Phenanthrene	mg/kg	-	-	<0.001	0.001	0.019	0.03
Pyrene	mg/kg	-	-	<0.003	0.003	0.024	0.03
Carcinogenic PAHs							
Benzo(a)anthracene	mg/kg	-	-	<0.001	0.001	0.014	0.005
Benzo(a)pyrene	mg/kg	20	-	<0.003	0.003	0.015	0.005
Benzo(b)fluoranthene	mg/kg	-	-	<0.004	0.004	0.017	0.005
Benzo(g,h,i)perylene	mg/kg	-	-	<0.002	0.002	0.015	0.005
Benzo(k)fluoranthene	mg/kg	-	-	<0.004	0.004	0.016	0.005
Chrysene	mg/kg	-	-	<0.001	0.001	0.038	0.005
Indeno(1,2,3-c,d) pyrene	mg/kg	-	-	<0.003	0.003	0.015	0.005
Dibenz(a,h,)anthracene	mg/kg	-	-	<0.004	0.004	<0.005	0.005
Benzo(a)pyrene TPE[4]		-	5.3	0.004	-	0.024	-

Notes:
1 = CCME Canadian Soil Quality Guidelines for the Protection of Environmental Health at a Residential/Parkland Site (2008)
2 = CCME Canadian Soil Quality Guidelines for Protection of Human Health for a Residential Site (Direct Soil Contact) (2008)
3 = As per CCME recommendations, soil samples are compared against the SQG for the protection of human health and environmental health separately
4 = Carcinogenic PAHs Assessed as Benzo(a)pyrene Total Potency Equivalent (TPE)
MDL = Method Detection Limit; RDL = Reportable Detection Limit for routine analysis
< # = Not detected above MDL/RDL noted
"-" = No applicable guideline or does not apply
Shaded = Value exceeds applicable criteria

Table 11.4 Results of Laboratory Analysis of PCBs in Soil - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Sample Location	Sample Depth (m)	Polychlorinated Biphenyls (PCBs)
	Units	ug/g
	Criteria[1]	1.3
1999 Sampling (AGRA)		
O-TP1	0.5	0.14
MDL	**-**	0.005
2009 Sampling (Stantec)		
09-SS46	0.0 - 0.15	<0.05
RDL	**-**	0.05

Notes:
1 = CCME Canadian Soil Quality Guidelines for a Residential/Parkland site (2007)
RDL = Reportable Detection Limit for routine analysis
< # = Not detected above RDL noted

Table 11.5 Results of Laboratory Analysis of TPH/BTEX in Groundwater - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Sample Location	Benzene	Toluene	Ethylbenzene	Xylenes	C_6-C_{10} (Gas Range)	C_{10}-C_{21} (Fuel Range)	C_{21}-C_{32} (Lube Range)	Modified TPH - Tier I[2]	Resemblance
RDL	0.001	0.001	0.001	0.002	0.01	0.05	0.1	0.1	-
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	-
Tier I RBSLs[1]	1	20	20	20	-	-	-	12/20/20	-
2009 Sampling (Stantec)									
09-MW25	<0.001	<0.001	<0.001	<0.002	<0.01	<0.05	<0.1	<0.1	-

Notes:
1 = Partnership in RBCA (Risk-Based Corrective Action) Implementation (PIRI) Tier I Risk Based Screening Levels (RBSLs) for a residential site with non-potable groundwater and coarse grained soil, fuel oil impacts (September, 2003)
2 = Modified TPH - Tier I does not include BTEX
RDL = Reportable Detection Limit for routine analysis
< # = Not detected above RDL noted
"-" = indicates value is not available or does not apply

Table 11.6 Results of Laboratory Analysis of Dissolved Metals in Groundwater - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Parameters	RDL	Units	Criteria[1]	2009 Sampling (Stantec)
				09-MW25
Aluminum	5.0	ug/L	-	75.6
Antimony	2.0	ug/L	20,000	<2.0
Arsenic	2.0	ug/L	1,900	<2.0
Barium	5.0	ug/L	29,000	11.5
Beryllium	2.0	ug/L	67	<2.0
Bismuth	2.0	ug/L	-	<2.0
Boron	5.0	ug/L	45,000	12.3
Cadmium	0.017	ug/L	2.7	<0.017
Chromium	1.0	ug/L	810	1.4
Cobalt	0.40	ug/L	66	<0.40
Copper	2.0	ug/L	87	2.4
Iron	50	ug/L	-	<50
Lead	0.50	ug/L	25	2.79
Manganese	2.0	ug/L	-	16.8
Mercury	0.02	ug/L	0.29	0.083
Molybdenum	2.0	ug/L	9,200	<2.0
Nickel	2.0	ug/L	490	<2.0
Selenium	1.0	ug/L	63	<1.0
Silver	0.10	ug/L	1.5	52.3
Strontium	5.0	ug/L	-	<0.10
Thallium	0.10	ug/L	510	<2.0
Tin	2.0	ug/L	-	<2.0
Titanium	2.0	ug/L	-	<0.10
Uranium	0.10	ug/L	420	<2.0
Vanadium	2.0	ug/L	250	<2.0
Zinc	5.0	ug/L	1,100	5.8

Notes:

1 = Ontario Ministry of the Environment (MOE) Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. July 27, 2009. Table 3: full depth generic site condition standards in a non-potable groundwater condition, coarse-grained soil

< # = Not detected above RDL noted

"-" = No applicable guideline

Table 11.7 Results of Laboratory Analysis of General Chemistry in Groundwater - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Parameter	RDL	Units	Criteria[1]	2009 Sampling (Stantec)
				09-MW25
Metals				
Dissolved Calcium	0.1	mg/L	-	6.5
Dissolved Magnesium	0.1	mg/L	-	3.6
Dissolved Phosphorus	0.1	mg/L	<0.004 to >0.1[3]	<0.1
Dissolved Potassium	0.1	mg/L	-	2.5
Dissolved Sodium	0.1	mg/L	-	3.5
Calculated Parameters				
Anion Sum	N/A	me/L	-	0.640
Bicarb. Alkalinity (calc. as CaCO3)	1	mg/L	-	28
Calculated TDS	1	mg/L	-	58
Carb.Alkalinity (calc. as CaCO3)	1	mg/L	-	<1
Cation Sum	N/A	me/L	-	0.840
Hardness (CaCO3)	1	mg/L	-	31
Ion Balance (% Difference)	N/A	%	-	13.5
Langelier Index (@ 20C)	-	N/A	-	-2.36
Langelier Index (@ 4C)	-	N/A	-	-2.61
Nitrate (N)	0.05	mg/L	2.9	0.52
Saturation pH (@20C)	-	N/A	-	9.06
Saturation pH (@4C)	-	N/A	-	9.31
Inorganics				
Total Alkalinity (Total as CaCO3)	5	mg/L	-	28
Dissolved Chloride (Cl)	1	mg/L	-	2
Colour	5	TCU	-	15
Nitrate + Nitrite	0.05	mg/L	-	0.53
Nitrite (N)	0.01	mg/L	0.06	0.01
Nitrogen (Ammonia Nitrogen)	0.05	mg/L	-	<0.05
Total Organic Compound	500	mg/L	-	<500(1)
Orthophosphate (P)	0.01	mg/L	-	0.01
pH	N/A	pH	6.5 - 9	6.70
Reactive Silica (Si)2)	0.5	mg/L	-	21
Dissolved Sulphate (SO4)	2	mg/L	-	<2
Turbidity	10	NTU	Narritive[2]	>1000
Conductivity	1	uS/cm	-	65

Notes:
1 = CCME Water Quality Guidelines for the protection of freshwater aquatic life (2007)
2 = Maximum increase of 8 NTUs from background levels when background levels are between 8 and 80 NTUs
3 = Phosphorous guideline is dependant on trophic status of the freswater environment
RDL = Reportable Detection Limit
< # = Not detected above RDL noted
"-" = indicates value is not available or does not apply
(1) Detection limit increased due to sample matrix

Table 11.8 Results of Laboratory Analysis of PCBs in Vegetation - Oil Shed Site
Phase III ESA, HHERA and RAP
Former U.S Military Facility, Northwest Point, NL
Stantec Consulting Ltd. Project No. 121410105

Sample Location	Polychlorinated Biphenyls (PCBs)
RDL	0.3
Units	ug/L
Criteria	na
2009 Sampling (Stantec)	
09-VEG-01	<0.3
09-VEG-01 Lab-Dup	<0.3

Notes:
RDL = Reportable Detection Limit
na = No applicable guideline
Lab-dup = Laboratory duplicate sample
< # = Not detected above RDL noted

Appendix 11e

Results of Hydraulic Response (Bail-Down) Test

– Oil Shed Site

Stantec Consulting Ltd.
607 Torbay Road
St. John's, NL, A1A 4Y6
Stantec Tel: (709) 576-1458

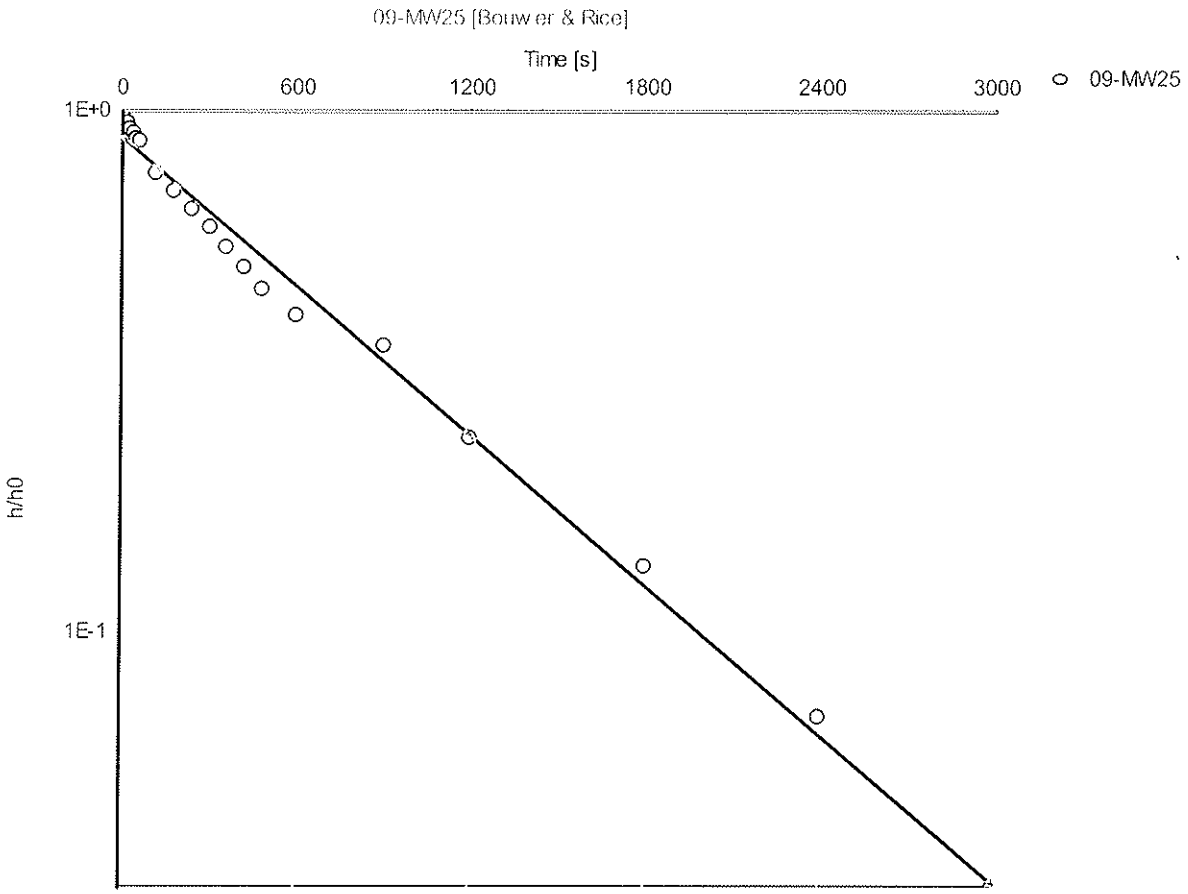
Slug Test Data Report
Project: Northwest Point
Number: 121410105
Client: NLDEC

Test Well:	**09-MW25**	**Slug Test:**	**09-MW25**
		Test Well:	09-MW25
Depth to Static WL:	1.43 [m]	Casing radius:	0.025 [m]
Location:		Boring radius:	0.05 [m]
Recorded by:	Stantec	Screen length:	3.05 [m]
Date:	8/26/2009	Aquifer Thickness:	2.97 [m]

	Time [s]	Depth to WL [m]	Drawdown [m]
1	10	3.89	2.46
2	20	3.76	2.33
3	30	3.70	2.27
4	40	3.66	2.23
5	50	3.61	2.18
6	60	3.59	2.16
7	120	3.30	1.87
8	180	3.16	1.73
9	240	3.02	1.59
10	300	2.90	1.47
11	360	2.78	1.35
12	420	2.66	1.23
13	480	2.55	1.12
14	600	2.43	1.00
15	900	2.30	0.87
16	1200	2.01	0.58
17	1800	1.76	0.33
18	2400	1.60	0.17
19	3000	1.51	0.08
20	3600	1.43	0.00

Stantec Consulting Ltd.
607 Torbay Road
St. John's, NL, A1A 4Y6
Tel: (709) 576-1458

Slug Test Analysis Report
Project: Northwest Point
Number: 121410105
Client: NLDEC



Slug Test: **09-MW25**

Analysis Method: **Bouwer & Rice**

Analysis Results:

Conductivity: 3.54E-7 [m/s]

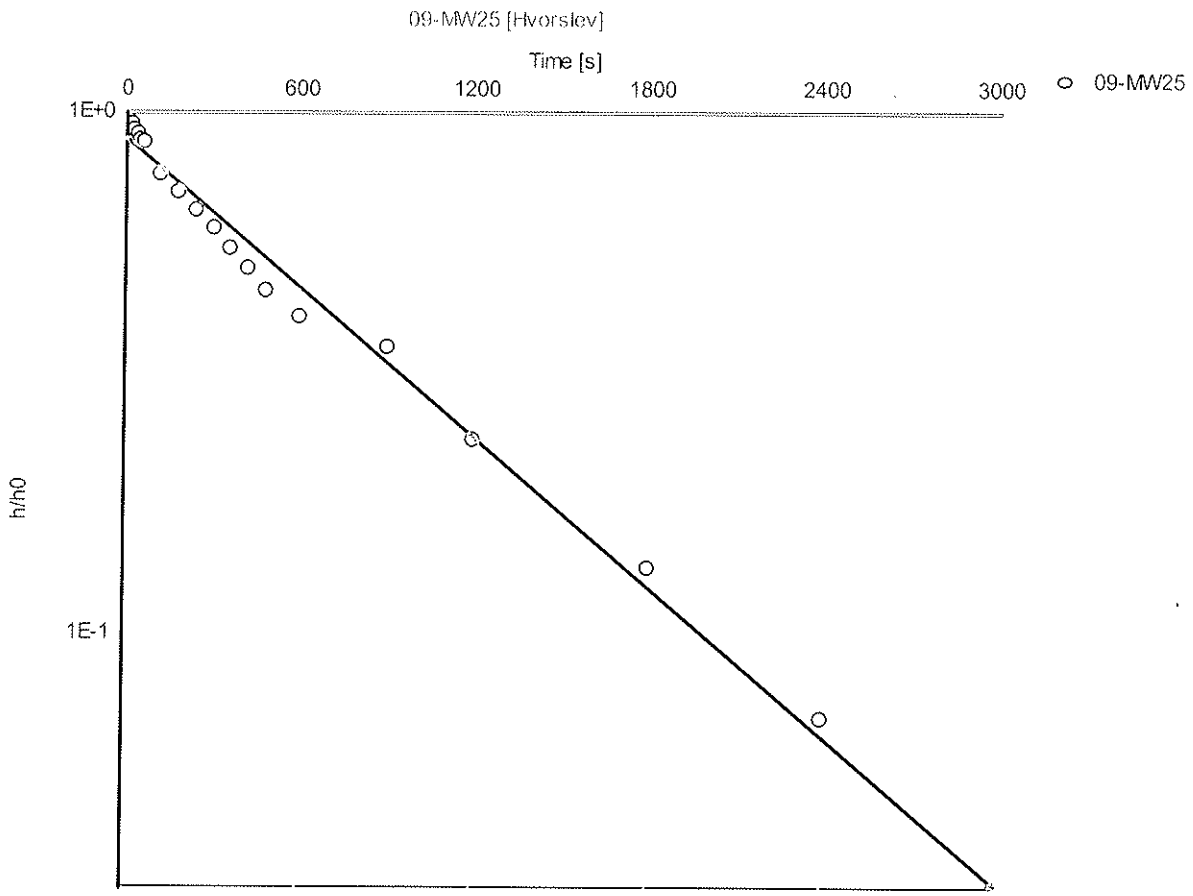
Test parameters:				
	Test Well:	09-MW25	Aquifer Thickness:	2.97 [m]
	Casing radius:	0.025 [m]	Gravel Pack Porosity (%)	25
	Screen length:	3.05 [m]		
	Boring radius:	0.05 [m]		
	r(eff):	0.033 [m]		

Comments:

Evaluated by: AR
Evaluation Date: 6/9/2010

Stantec Consulting Ltd.
607 Torbay Road
St. John's, NL, A1A 4Y6
Tel: (709) 576-1458

Slug Test Analysis Report
Project: Northwest Point
Number: 121410105
Client: NLDEC



Slug Test: **09-MW25**

Analysis Method: **Hvorslev**

Analysis Results:

Conductivity: 4.64E-7 [m/s]

Test parameters:

Test Well:	09-MW25	
Casing radius:	0.025 [m]	
Screen length:	3.05 [m]	
Boring radius:	0.05 [m]	

Aquifer Thickness: 2.97 [m]

Comments:

Evaluated by: AR

Evaluation Date: 6/9/2010