

APPENDIX B

LOCATION OF TPH CONTAMINATION

**Environmental Assessment Registration
Stephenville Sewage Treatment System**

Table 1: Summary of Soil Chemistry Results – Petroleum Hydrocarbons
Proposed Sewage Treatment Plant, Stephenville, NL

Sample I.D.	Sample Depth (m)	BTEX Parameters (mg/kg)				Total Petroleum Hydrocarbons				Resemblance
		Benzene	Toluene	Ethyl benzene	Xylenes	C ₆ -C ₁₀	C ₁₁ -C ₂₀	C ₂₁ -C ₃₂	Modified TPH	
BH3-SS6	3.1-3.7	0.053	nd	nd	nd	3.5	81	24	110	Weathered Fuel Oil
BH4-SS2	1.2-1.8	0.927	nd	0.266	0.619	44	1,900	210	2,100	Weathered Fuel Oil
BH5-SS4	2.1-2.6	0.432	0.094	0.224	0.512	28	580	150	760	Weathered Fuel Oil
BH5-SS4 (Dup)	2.1-2.6	0.640	0.072	0.308	0.695	38	750	150	940	Weathered Fuel Oil
BH6-SS4	2.1-2.7	0.231	nd	nd	nd	5.8	120	35	160	Weathered Fuel Oil
BH7-SS4	2.1-2.7	5.75	0.249	0.786	2.78	180	2,900	170	3,200	Weathered Fuel Oil
EQL		0.025	0.025	0.025	0.050	2.5	15	15	32	
Applicable Criteria ¹		0.5	0.8	1.2	1.0	-	-	-	100	
Applicable Criteria ²		5	0.8	20	17	-	-	-	1,000	

Notes: 1 = Based on NDE criteria for sensitive site for TPH and CCME Criteria for residential/parkland site for TPH
2 = Based on NDE criteria for non-sensitive site for TPH and CCME Criteria for commercial site for TPH
EQL = estimated level of quantitation of routine analysis; nd = not detected above standard EQL
(Dup) = Duplicate Sample; - = no criteria; bold values exceed sensitive/residential site criteria; shaded values exceed non-sensitive/commercial criteria.