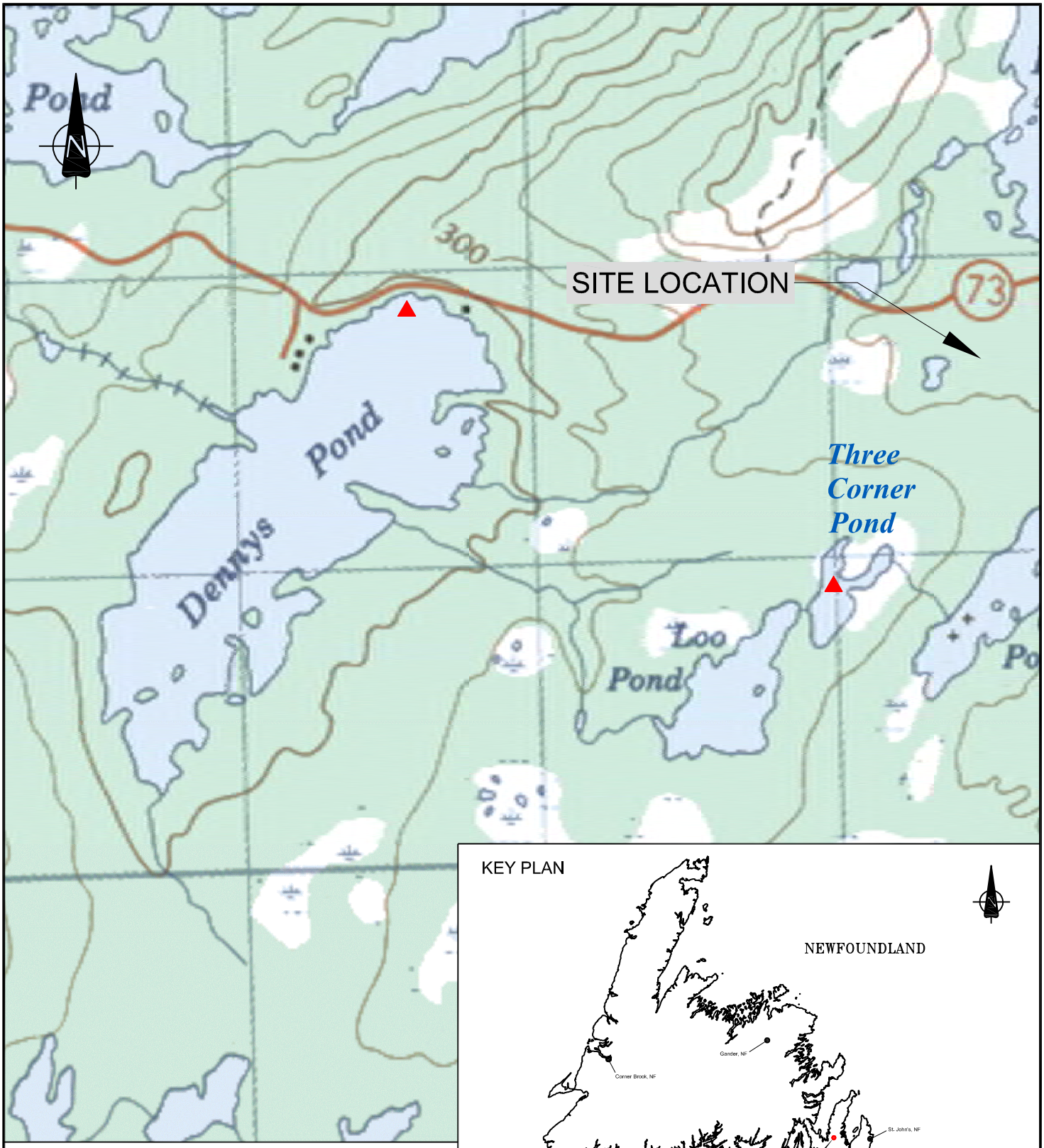
APPENDIX A

Sample Location Map



KEY PLAN

SITE LOCATION

LEGEND

▲ Surface Water/ Sediment Sample Location

SNC•LAVALIN
SNC•LAVALIN Inc.
Halifax, Nova Scotia, Canada
Telephone: (902) 492-4544
Fax: (902) 492-4540
Member of the SNC•LAVALIN Group

DESIGNED BY: JG	PROJECT: SURFACE WATER/ SEDIMENT SAMPLING UPPER TRINITY SOUTH (NEW HARBOUR) WASTE DISPOSAL SITE ROUTE 73, NEW HARBOUR, NL	DATE: AUGUST 2012	
DRAWN BY: DC		PROJECT #: 508907-0001	
CHECKED BY: DH	DRAWING TITLE: **SAMPLE LOCATION**	DRAWING #: 1	
CLIENT: DEPARTMENT OF ENVIRONMENT AND CONSERVATION	SCALE: NTS		

APPENDIX B

Surface Water Field Parameters

Table B-1: Summary of Surface Water Field Parameters

Sample ID	Sample Date	Temperature (°C)	Electrical Conductivity (uS/cm)	pH	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	TDS (g/L)	GPS Coordinates (UTM, NAD83)
Denny's Pond	18-Jun-12	16.52	39	6.37	376.4	33.68	0.25	47 34 27.7 N, 53 28 36 W
Three Corner Pond	27-Jun-12	18	81	7.1	393.7	37.6	0.053	47 34 00.72 N, 53 27 30.84 W

APPENDIX C

Summary of Analytical Result Tables

TABLE C-1: Metal Concentrations in Surface Water of Denny's Pond and Three Corner Pond

				DATA										GUIDELINES
Sample Location	RDL (µg/L)			Background*				Denny's Pond			Three Corner Pond			1999 CCME-FAL
Sampling Date				Mar. 2010	Nov. 2010	Mar. 2010	Nov. 2010	2012/06/18	2012/06/18	2012/06/18	2012/06/27	2012/06/27	2012/06/27	
Sample ID	Mar. 2010	Nov. 2010	June 2012	BACK-SW-1		BACK-SW-2		**SW-DENNY'S POND (0-0.15M)**	**MIDSW-DENNY'S POND (2.5M)**	**BOTTOMSW-DENNY'S POND (5.0M)**	**SW-THREE CORNER POND (0-0.15M)**	**MIDSW-THREE CORNER POND (0.5M)**	**BOTTOMSW-THREE CORNER POND (1.0M)**	**(Updated 2011)**
Parameter				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Aluminum	10.0	5.0	5.0	**130**	**172**	**150**	**245**	94.2	98.0	**182**	98.9	**247**	**182**	**5 - 100**
Antimony	2.0	1.0	1.0	<2	<1	<2	<1	ND	ND	ND	ND	ND	ND	**-**
Arsenic	2.0	1.0	1.0	<2	<1	<2	<1	ND	ND	ND	ND	ND	ND	**5**
Barium	5.0	1.0	1.0	<5	1.8	<5	2.7	1.1	1.4	1.8	1.5	3.3	2.1	**-**
Beryllium	2.0	1.0	1.0	<2	<1	<2	<1	ND	ND	ND	ND	ND	ND	**-**
Bismuth	2.0	2.0	2.0	<2	<2	<2	<2	ND	ND	ND	ND	ND	ND	**-**
Boron	5	5.0	50	<5	7.6	<5	<5	ND	ND	ND	ND	ND	ND	**1,500**
Cadmium	0.3	0.017	0.017	<0.3	<0.017	<0.3	<0.017	ND	ND	ND	ND	**0.018**	ND	**0.017**
Calcium	10	100	100	1,200	1,340	1,200	1,230	1110	1150	1150	3480	3580	3380	**-**
Chromium	2.0	1.0	1.0	**20**	<1	<2	<1	ND	ND	ND	ND	ND	ND	**1**
Cobalt	1.0	0.40	0.40	<1	<0.40	<1	<0.4	ND	ND	ND	ND	1.02	0.56	**-**
Copper	2.0	2.0	2.0	<2	<2	<2	**2.4**	ND	ND	ND	**5.1**	ND	ND	**2 - 4**
Iron	50	50	50	120	109	**540**	235	91	104	261	230	**625**	**514**	**300**
Lead	0.5	0.50	0.50	<0.5	<0.50	<0.5	<0.5	ND	ND	ND	ND	0.56	ND	**1 - 7**
Magnesium	10	100	100	600	579	600	560	539	560	567	902	921	864	**-**
Manganese	2.0	2.0	2.0	17	22	96	18	12.0	13.8	57.6	136	560	328	**-**
Mercury	0.013	--	--	<0.013	-	<0.013	-	--	--	--	--	--	--	**0.026**
Molybdenum	2.0	2.0	2.0	<2	<2	<2	<2	ND	ND	ND	ND	ND	ND	**-**
Nickel	2.0	2.0	2.0	<2	<2	<2	<2	ND	ND	ND	ND	ND	ND	**25 - 150**
Phosphorus	-	100	100	-	<100	-	<100	ND	ND	ND	ND	ND	ND	**-**
Potassium	10	100	100	100	153	200	170	185	189	199	624	652	585	**-**
Selenium	2.0	1.0	1.0	<2	<1	<2	<1	ND	ND	ND	ND	ND	ND	**1**
Silver	0.5	0.10	0.10	<0.5	<0.1	<0.5	<0.10	ND	ND	ND	ND	ND	ND	**0.1**
Sodium	10	100	100	5,200	4,020	7,600	5,480	5050	5240	5260	10400	10600	10100	**-**
Strontium	5.0	2.0	2.0	5	5.8	<5	4.6	4.8	4.9	5.2	12.5	12.8	12.1	**-**
Thallium	0.1	0.10	0.10	<0.1	<0.10	<0.1	<0.10	ND	ND	ND	ND	ND	ND	**0.8**
Tin	2.0	2.0	2.0	<2	<2	<2	<2	ND	ND	ND	ND	ND	ND	**-**
Titanium	2.0	2.0	2.0	<2	<2	<2	2.1	ND	2.1	5.4	3.1	6.5	5.2	**-**
Uranium	0.10	0.10	0.10	<0.1	<0.10	<0.1	<0.10	ND	ND	ND	ND	ND	ND	**15**
Vanadium	2.0	2.0	2.0	<2	<2	<2	<2	ND	ND	ND	ND	ND	ND	**-**
Zinc	5.0	5.0	5.0	10	12	11	5	ND	ND	ND	ND	5.3	6.8	**30**

Notes

RDL: Reportable Detection Limit
<X: Not detected above RDL
ND: Not Detectable
CCME: Canadian Council of Ministers of the Environment
FAL: Canadian Water Quality Guidelines for Freshwater Aquatic Life
Bold faced guidelines reflect those most applicable to current land use designation
--: Value not established / not analyzed
Shaded and bold data exceeds the CCME-FAL Guidelines
*2010-2011 Annual Report of Activities, Upper Trinity South (New Harbour) Waste Disposal Site (AMEC, 2011)

Cadmium Guideline (in ug/L) = 10{0.86[log(hardness)] - 3.2}; hardness measured as CaCO3 equivalents in mg/L
Chromium Guideline = For trivalent chromium (Cr(III))

TABLE C-2: General Chemistry Concentrations in Surface Water of Denny's Pond and Three Corner Pond

					DATA								GUIDELINES
Sample Location		RDL			Background*				Denny's Pond			Three Corner Pond			1999 CCME-FAL
Sample Date					Mar. 2010	Nov. 2010	Mar. 2010	Nov. 2009	2012/06/18	2012/06/18	2012/06/18	2012/06/27	2012/06/27	2012/06/27	
Sample ID		Mar. 2010	Oct. 2009 / Jan. 2010	June 2012	BACK-SW-1		BACK-SW-2		SW-DENNY'S POND (0-0.15M)	MIDSW-DENNY'S POND (2.5M)	BOTTOMSW-DENNY'S POND (5.0M)	SW-THREE CORNER POND (0-0.15M)	MIDSW-THREE CORNER POND (0.5M)	BOTTOMSW-THREE CORNER POND (1.0M)	
Parameter	Units														(UPDATED 2011)
Chloride	(ug/L)	1,000	1,000	1,000	9,000	6,000	15,000	8,000	7900	7900	8000	16000	15000	16000	-
Colour	(TCU)	-	30	5	42	40	61	84	25	25	26	36	35	35	-
Conductivity	(µS/cm)	1	1	1	39	27	57	33	38	38	38	81	80	80	-
Hardness as CaCO3	(ug/L)	1,000	1,000	1,000	5,000	6,000	6,000	5,000	5000	5200	5200	12000	13000	12000	-
Nitrate as N	(ug/L)	50	50	50	100	<50	<50	<50	ND	ND	ND	ND	ND	ND	**13,000**
Nitrite as N	(ug/L)	10	10	10	10	<10	<10	<10	ND	ND	ND	ND	ND	ND	**60**
Nitrogen (Ammonia Nitrogen)	(ug/L)	--	--	50	--	--	--	--	ND	ND	ND	ND	ND	ND	**19**
pH	pH	--	--	--	**5.45**	**6.19**	**4.92**	**5.82**	**6.29**	**6.16**	**6.13**	7.06	7.00	7.00	**6.5-9**
Sulphate	(ug/L)	2,000	2,000	2,000	<2000	<2000	<2000	<2000	ND	ND	ND	4800	4900	4800	-
Total Alkalinity (CaCO3)	(ug/L)	5,000	5,000	5,000	<5000	<5000	<5000	<5000	ND	ND	ND	8500	8300	8200	-
Total Dissolved Solids	(ug/L)	1,000	1,000	1,000	19,000	15,000	28,000	19,000	16000	16000	16000	41000	42000	41000	-
Total Organic Carbon	(ug/L)	5,000	500	500	4,300	5,500	4,000	7,000	3900	3700	3800	5900	6000	6100	-
Turbidity	(NTU)	0.1	0.1	0.1	0.6	0.4	3.1	0.6	0.37	0.47	0.70	0.52	2.0	1.4	-
Calcium	(ug/L)	10	100	100	1,200	1,340	1,200	1,230	1,110	1,150	1,150	3,480	3,580	3,380	-
Magnesium	(ug/L)	10	100	100	600	579	600	560	539	560	567	902	921	864	-
Potassium	(ug/L)	10	100	100	100	153	200	170	185	189	199	624	652	585	-
Sodium	(ug/L)	10	100	100	5,200	4,020	7,600	5,480	5,050	5,240	5,260	10,400	10,600	10,100	-
Orthophosphate (P)	(ug/L)	--	--	10	--	--	--	--	ND	ND	ND	ND	ND	ND	-
Reactive Silica (SiO2)	(ug/L)	500	500	500	3,000	2,900	1,900	3,200	700000	690000	690000	ND	ND	ND	-

Notes:

RDL: Reportable Detection Limit
<X: Not detected above RDL
ND: Not Detectable
CCME: Canadian Council of Ministers of the Environment
FAL: Canadian Water Quality Guidelines for Freshwater Aquatic Life
Bold faced guidelines reflect those most applicable to current land use designation
--: Value not established
Shaded and bold data exceeds the CCME-FAL Guidelines
Bold faced guidelines reflect those most applicable to current land use designation
*2010-2011 Annual Report of Activities, Upper Trinity South (New Harbour) Waste Disposal Site (AMEC, 2011)

TABLE C-3: PCB Concentrations in Surface Water of Denny's Pond and Three Corner Pond

		DATA						GUIDELINES
Sample Location	RDL (µg/L)	Denny's Pond			Three Corner Pond			1999 CCME-FAL (Updated 2011)
Sampling Date		2012/06/18	2012/06/18	2012/06/18	2012/06/18	2012/06/18	2012/06/18	
Sample ID		**SW-DENNY'S POND (0-0.15M)**	**MIDSW-DENNY'S POND (2.5M)**	**BOTTOMSW-DENNY'S POND (5.0M)**	**SW-DENNY'S POND (0-0.15M)**	**MIDSW-DENNY'S POND (2.5M)**	**BOTTOMSW-DENNY'S POND (5.0M)**	
Parameter		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	**(µg/L)**
Polychlorinated Biphenyls	0.06	ND	ND	ND	ND	ND	ND	--

Notes

RDL: Reportable Detection Limit
<X: Not detected above RDL
ND: Not Detectable
CCME = Canadian Council of Ministers of the Environment
FAL = Canadian Water Quality Guidelines for Freshwater Aquatic Life
Bold faced guidelines reflect those most applicable to current land use designation
--: Value not established

TABLE C-4: Dioxins and Furans Concentrations in Surface Water of Denny's Pond and Three Corner Pond (pg/L)

	DATA					DATA					DATA					DATA					DATA					DATA				
Sample ID	SW-DENNY'S POND (0-0.15M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	MIDSW-DENNY'S POND (2.5M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	BOTTOMSW-DENNY'S POND (5.0M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	SW-THREE CORNER POND (0-0.15M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	MIDSW-THREE CORNER POND (0.5M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	BOTTOMSW-THREE CORNER POND (1.0M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)
Sampling Date	2012/06/18					2012/06/18					2012/06/18					2012/06/27					2012/06/27					2012/06/27				
Parameter																															
2,3,7,8-Tetra CDD *	ND	0.765	10.1	1.00	0.765	ND	0.617	9.52	1.00	1.00	ND	0.591	10.2	1.00	0.591	ND	0.585	11.0	1.00	0.585	ND	0.463	9.62	1.00	0.463	ND	0.496	9.52	1.00	0.496
1,2,3,7,8-Penta CDD	ND	0.668	10.1	1.00	0.668	ND	0.544	9.52	1.00	1.00	ND	0.806	10.2	1.00	0.806	ND	0.571	11.0	1.00	0.571	ND	0.513	9.62	1.00	0.513	ND	0.564	9.52	1.00	0.564
1,2,3,4,7,8-Hexa CDD	ND	0.766	10.1	0.100	0.0766	ND	0.584	9.52	0.100	0.100	ND	0.511	10.2	0.100	0.0511	ND	0.564	11.0	0.100	0.0564	ND	0.517	9.62	0.100	0.0517	ND	0.512	9.52	0.100	0.0512
1,2,3,6,7,8-Hexa CDD	ND	0.809	10.1	0.100	0.0809	ND	0.576	9.52	0.100	0.100	ND	0.540	10.2	0.100	0.0540	ND	0.596	11.0	0.100	0.0596	ND	0.547	9.62	0.100	0.0547	ND	0.541	9.52	0.100	0.0541
1,2,3,7,8,9-Hexa CDD	ND	0.729	10.1	0.100	0.0729	ND	0.555	9.52	0.100	0.100	ND	0.486	10.2	0.100	0.0486	ND	0.537	11.0	0.100	0.0537	ND	0.492	9.62	0.100	0.0492	ND	0.488	9.52	0.100	0.0488
1,2,3,4,6,7,8-Hepta CDD	ND (A)	1.05	10.1	0.0100	0.0105	ND	0.576	9.52	0.0100	0.0100	1.1	0.610	10.2	0.0100	0.0110	ND	0.621	11.0	0.0100	0.00621	ND	0.539	9.62	0.0100	0.00539	0.68	0.521	9.52	0.0100	0.00680
Octa CDD	4	1.73	101	0.000300	0.00120	ND	1.04	95.2	0.000300	0.000300	ND	1.18	102	0.000300	0.000354	ND	1.150	110	0.000300	0.000345	ND	0.988	96.2	0.000300	0.000296	1.3	1.010	95.2	0.000300	0.000390
Total Tetra CDD	ND	0.765	10.1	--	--	ND	0.617	9.52	--	--	ND	0.591	10.2	--	--	ND	0.585	11.0	--	--	ND	0.463	9.62	--	--	ND	0.496	9.52	--	--
Total Penta CDD	ND	0.668	10.1	--	--	ND	0.544	9.52	--	--	ND	0.806	10.2	--	--	ND	0.571	11.0	--	--	ND	0.513	9.62	--	--	ND	0.564	9.52	--	--
Total Hexa CDD	ND	0.766	10.1	--	--	ND	0.572	9.52	--	--	ND	0.512	10.2	--	--	ND	0.565	11.0	--	--	ND	0.518	9.62	--	--	ND	0.513	9.52	--	--
Total Hepta CDD	ND (A)	1.05	10.1	--	--	ND	0.576	9.52	--	--	1.1	0.610	10.2	--	--	ND	0.621	11.0	--	--	ND	0.539	9.62	--	--	0.68	0.521	9.52	--	--
2,3,7,8-Tetra CDF **	ND	0.686	10.1	0.100	0.0686	ND	0.656	9.52	0.100	0.100	ND	0.683	10.2	0.100	0.0683	ND	0.565	11.0	0.100	0.0565	ND	0.548	9.62	0.100	0.0548	ND	0.487	9.52	0.100	0.0487
1,2,3,7,8-Penta CDF	ND	0.740	10.1	0.0300	0.0222	ND	0.510	9.52	0.0300	0.0300	ND	0.644	10.2	0.0300	0.0193	ND	0.743	11.0	0.0300	0.0223	ND	0.555	9.62	0.0300	0.0167	ND	0.564	9.52	0.0300	0.0169
2,3,4,7,8-Penta CDF	ND	0.704	10.1	0.300	0.211	ND	0.482	9.52	0.300	0.300	ND	0.613	10.2	0.300	0.184	ND	0.708	11.0	0.300	0.212	ND	0.528	9.62	0.300	0.158	ND	0.537	9.52	0.300	0.161
1,2,3,4,7,8-Hexa CDF	ND	0.490	10.1	0.100	0.0490	ND	0.450	9.52	0.100	0.100	ND	0.435	10.2	0.100	0.0435	ND	0.562	11.0	0.100	0.0562	ND	0.351	9.62	0.100	0.0351	ND	0.421	9.52	0.100	0.0421
1,2,3,6,7,8-Hexa CDF	ND	0.484	10.1	0.100	0.0484	ND	0.408	9.52	0.100	0.100	ND	0.430	10.2	0.100	0.0430	ND	0.555	11.0	0.100	0.0555	ND	0.346	9.62	0.100	0.0346	ND	0.416	9.52	0.100	0.0416
2,3,4,6,7,8-Hexa CDF	ND	0.571	10.1	0.100	0.0571	ND	0.520	9.52	0.100	0.100	ND	0.508	10.2	0.100	0.0508	ND	0.656	11.0	0.100	0.0656	ND	0.409	9.62	0.100	0.0409	ND	0.491	9.52	0.100	0.0491
1,2,3,7,8,9-Hexa CDF	ND	0.594	10.1	0.100	0.0594	ND	0.538	9.52	0.100	0.100	ND	0.528	10.2	0.100	0.0528	ND	0.682	11.0	0.100	0.0682	ND	0.425	9.62	0.100	0.0425	ND	0.511	9.52	0.100	0.0511
1,2,3,4,6,7,8-Hepta CDF	ND (A)	0.747	10.1	0.0100	0.00747	ND	0.513	9.52	0.0100	0.0100	ND	0.470	10.2	0.0100	0.00470	ND	0.528	11.0	0.0100	0.00528	ND	0.455	9.62	0.0100	0.00455	ND	0.467	9.52	0.0100	0.00467
1,2,3,4,7,8,9-Hepta CDF	ND	0.730	10.1	0.0100	0.00730	ND	0.602	9.52	0.0100	0.0100	ND	0.583	10.2	0.0100	0.00583	ND	0.656	11.0	0.0100	0.00656	ND	0.565	9.62	0.0100	0.00565	ND	0.580	9.52	0.0100	0.00580
Octa CDF	ND	1.04	101	0.000300	0.000312	ND	0.764	95.2	0.000300	0.000300	ND	1.17	102	0.000300	0.000351	ND	1.090	110	0.000300	0.000327	ND	0.899	96.2	0.000300	0.000270	ND	0.986	95.2	0.000300	0.000296
Total Tetra CDF	ND	0.686	10.1	--	--	ND	0.656	9.52	--	--	ND	0.683	10.2	--	--	ND	0.565	11.0	--	--	ND	0.548	9.62	--	--	ND	0.487	9.52	--	--
Total Penta CDF	ND	0.721	10.1	--	--	ND	0.496	9.52	--	--	ND	0.628	10.2	--	--	ND	0.725	11.0	--	--	ND	0.541	9.62	--	--	ND	0.550	9.52	--	--
Total Hexa CDF	ND	0.530	10.1	--	--	ND	0.473	9.52	--	--	ND	0.471	10.2	--	--	ND	0.609	11.0	--	--	ND	0.380	9.62	--	--	ND	0.456	9.52	--	--
Total Hepta CDF	ND (A)	0.827	10.1	--	--	ND	0.554	9.52	--	--	ND	0.520	10.2	--	--	ND	0.585	11.0	--	--	ND	0.504	9.62	--	--	ND	0.518	9.52	--	--
Total Toxic Equivalency	--	--	--	--	2.21	--	--	--	--	1.77	--	--	--	--	2.03	--	--	--	--	1.88	--	--	--	--	1.53	--	--	--	--	1.64

Notes:

RDL: Reportable Detection Limit
EDL: Estimated Detection Limit
ND: Not Detectable
CDD*: Chloro Dibenzo-p-Dioxin
CDF**: Chloro Dibenzo-p-Furan
1 - Guideline for 2,3,7,8-Tetra CDD (Commercial Site with Non-Potable Groundwater)
2 - van Leeuwen FXR (1997). Derivation of TEFs for dioxin-like compounds in humans and wildlife. Organohalogen Compounds 34:237
TEF: Toxic Equivalency Factor of other dioxins and furans to 2,3,7,8-Tetra CDD
TEF Equivalent: Concentration of Dioxins and Furans multiplied by the TEF (WHO)
TEQ = Toxic Equivalency Quotient, the Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO: World Health Organisation
--: Value not established
(A) EMPC/ NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

TABLE C-5: Metal Concentrations in Sediment of Denny's Pond and Three Corner Pond

				DATA								GUIDELINES
Sample Location	RDL (mg/kg)			Background*						Denny's Pond	Three Corner Pond	**1999 CCME-CSQG[1]**
Sample Date				Mar. 2010	Nov. 2010	Mar. 2010	Nov. 2010	Mar. 2010	Nov. 2010	2012/06/18	2012/06/27	
Sample ID				BACKPOND-SED-1		BACKPOND-SED-2		BACKPOND-SED-3		**SED-DENNY'S POND**	**SED-THREE CORNER POND**	**(PEL, Updated 2007)**
Parameter	Mar. 2010	Nov. 2010	June 2012	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	10	10	10	7,200	8,300	11,000	11,000	13,000	9,900	25000	9400	-
Antimony	2	2	2.0	<2	<2	<2	<2	<2	<2	ND	ND	-
Arsenic	2	2	2.0	9	4	3	4	3	3	**19**	17	**17**
Barium	5	5	5.0	60	30	29	14	35	17	47	72	-
Beryllium	2	2	2.0	<2	<2	<2	<2	<2	<2	2.6	ND	-
Bismuth	2	2	2.0	<2	<2	<2	<2	<2	<2	ND	ND	-
Boron	5	5	5.0	<5	<5	<5	<5	<5	<5	ND	ND	-
Cadmium	0.3	0.3	0.30	<0.3	0.4	<0.3	<0.3	<0.3	<0.3	0.64	0.52	**3.5**
Chromium	2	2	2.0	7	7	8	10	9	8	11	4.7	**90**
Cobalt	1	1	1.0	40	11	3	2	3	2	75	71	-
Copper	2	2	2.0	8	8	8	45	9	46	18	15	**197**
Iron	50	50	50	17,000	17,000	4,700	2,000	4,800	2,400	45000	28000	-
Lead	0.5	0.5	0.50	6.8	7.4	2.8	2.1	2.7	2.5	21	21	**91.3**
Lithium	2	2	2.0	18	11	2	<2	<2	<2	3.8	ND	-
Manganese	2	2	2.0	12,000	2,900	410	100	420	130	2600	15000	-
Mercury	0.1	0.1	0.10	<0.1	<0.1	0.1	0.2	0.1	0.2	0.27	0.18	**0.486**
Molybdenum	2	2	2.0	<2	<2	<2	<2	<2	<2	2.0	2.6	-
Nickel	2	2	2.0	13	9	6	4	7	4	9.4	7.4	-
Rubidium	2	2	2.0	<2	2	<2	<2	<2	<2	2.5	ND	-
Selenium	1	1	2.0	<2	<5*	<2	<5*	<2	<5*	2.3	ND	-
Silver	0.5	0.5	0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	-
Strontium	50	5	5.0	5	<50*	<5	<50*	<5	<50*	11	14	-
Thallium	0.1	0.1	0.10	0	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	ND	-
Tin	2	2	2.0	<2	<2	<2	<2	<2	<2	ND	ND	-
Uranium	0.1	0.1	0.10	0.3	0.5	1	1.5	0.7	1.3	1.3	1.0	-
Vanadium	2	2	2.0	9	15	24	45	28	36	38	18	-
Zinc	5	5	5.0	69	53	11	9	16	10	100	64	**315**

Notes

RDL: Reportable Detection Limit

<X: Not detected above RDL

ND: Not Detectable

1.) Canadian Council for the Ministers of the Environment (CCME) Canadian Sediment Quality Guidelines (CSQG) for Protection of Freshwater Aquatic Life (FAL).

ISQG: Interim Sediment Quality Guidelines (dry weight)

PEL: Probable Effect Levels (dry levels)

--: VALUE NOT ESTABLISHED

Shaded data exceed the CCME PEL criteria/guideline(s)

*2010-2011 Annual Report of Activities, Upper Trinity South (New Harbour) Waste Disposal Site (AMEC, 2011)

TABLE C-6: BTEX/TPH Concentrations in Sediment of Denny's Pond and Three Corner Pond

				DATA						
Sample Location	RDL (mg/kg)			Background*					Denny's Pond	Three Corner Pond
Sample Date				Mar. 2010	Nov. 2010	Mar. 2010	Nov. 2010	Nov. 2010	2012/06/18	2012/06/27
Sample ID	Mar. 2010	Nov. 2010	June 2012	BACKPOND-SED-1		BACKPOND-SED-2		BACKPOND-SED-3	**SED-DENNY'S POND**	**Sed - Three Corner Pond**
Parameter				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	0.03	0.03	0.025	<0.03	<0.03	<0.03	<0.03	<0.03	1.7	ND
Toluene	0.03	0.03	0.025	<0.03	<0.03	0.04	<0.03	<0.03	14	ND
Ethylbenzene	0.03	0.03	0.025	<0.03	<0.03	<0.03	<0.03	<0.03	9.2	ND
Total Xylene	0.05	0.05	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	52	ND
TPH (C_6-C_{10})	3	3	2.5	<3	<3	<3	<3	<3	17	ND
TPH (>C_{10}-C_{21})	15	20	10	<15	<20	<15	<20	290	ND	ND
TPH (>C_{21}-<C_{32})	15	15	15	<15	<15	<15	640	780	150	140
Modified TPH (C_6-C_{32})	20	20	15	<20	<20	<20	640	1,100	170	140
Hydrocarbon Identification				--		A	A	B	C	A

Notes:

RDL: Reportable Detection Limit

<X: Not detected above RDL

ND: Not Detectable

There are no guidelines availible for BTEX/TPH in sediment

--: Value not established

A) No resemblance to petroleum products in the lube oil range.

B) No resemblance to petroleum products in the fuel oil / lube oil range.

C) Gasoline Range. Possible lube oil fraction

TABLE C-7: PAH Concentrations in Sediment of Denny's Pond and Three Corner Pond

				DATA						GUIDELINES
Sample Location	RDL (mg/kg)			Background*				Denny's Pond	Three Corner Pond	**1999**
Sampling Date				Mar. 2010	Nov. 2010	Mar. 2010	Nov. 2010	2012/06/18	2012/06/27	**CCME-CSQG[1]**
Sample ID	Mar. 2010	Nov. 2010	June 2012	BACKPOND-SED-1		BACKPOND-SED-2		**SED-DENNY'S POND**	**SED-THREE CORNER POND**	**(PEL, Updated 2007)**
Parameter				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	**(mg/kg)**
1-Methylnaphthalene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	--
2-Methylnaphthalene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.201**
Acenaphthene	0.01	0.005	0.010	<0.01**	<0.005	<0.01**	<0.005	ND	ND	**0.0889**
Acenaphthylene	0.01	0.005	0.010	<0.01**	<0.005	<0.01**	<0.005	ND	ND	**0.128**
Anthracene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.245**
Benzo(a)anthracene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.385**
Benzo(a)pyrene	0.01	0.005	0.010	<0.01	<0.005	<0.01	0.01	ND	ND	**0.782**
Benzo(b)fluoranthene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	--
Benzo(g,h,i)perylene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	--
Benzo(j)fluoranthene	--	0.005	0.010	-	<0.005	-	<0.005	ND	ND	--
Benzo(k)fluoranthene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	--
Chrysene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.862**
Dibenzo(a,h)anthracene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.135**
Fluoranthene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**2.355**
Fluorene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.144**
Indeno(1,2,3-cd)pyrene	0.01	0.005	0.010	0.01	<0.005	<0.01	<0.005	ND	ND	--
Naphthalene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.391**
Perylene	0.01	0.005	0.010	<0.01	<0.005	1.4	0.17	9.4	ND	--
Phenanthrene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.515**
Pyrene	0.01	0.005	0.010	<0.01	<0.005	<0.01	<0.005	ND	ND	**0.875**

Notes

RDL: Reportable Detection Limit

<X: Not detected above RDL

ND: Not Detectable

1.) Canadian Council for the Ministers of the Environment (CCME) Canadian Sediment Quality Guidelines (CSQG) for Protection of Freshwater Aquatic Life (FAL).

ISQG: Interim Sediment Quality Guidelines (dry weight)

PEL: Probable Effect Levels (dry levels)

--: Value not established

Shaded data exceed the CCME PEL criteria/guideline(s)

**Reportable detection limit exceeds guidelines

TABLE C-8: PCB Concentrations in Sediment at Denny's Pond and Three Corner Pond

		DATA		GUIDELINES
Sample Location	RDL (mg/kg)	Denny's Pond	Three Corner Pond	**1999**
Sample Date		2012/06/18	2012/06/27	**CCME-CSQG[1]**
Sample ID		**SED-DENNY'S POND**	**SED-THREE CORNER POND**	**(PEL, Updated 2007)**
Parameter		ug/g	ug/g	**(mg/kg)**
Polychlorinated Biphenyls	0.05	ND	ND	**0.277**

Notes

RDL: Reportable Detection Limit
<X: Below RDL
ND: Not Detectable
1: Canadian Council for the Ministers of the Environment (CCME) Canadian Sediment Quality Guidelines (CSQG) for Protection of Freshwater Aquatic Life (FAL).
ISQG: Interim Sediment Quality Guidelines (dry weight)
PEL: Probable Effect Levels (dry levels)
--: Value not established

TABLE C-9: VOC Concentrations in Sediment of Denny's Pond and Three Corner Pond

		DATA		GUIDELINES
Sample Location	RDL	Denny's Pond	Three Corners Pond	**1999 CCME-CSQG[1] (PEL, Updated 2007)**
Sample Date		2012/06/18	2012/06/27	
Sample ID		**SED-DENNY'S POND**	**SED-THREE CORNER POND**	
Parameter	June 2012 (ug/kg)	ug/kg	ug/kg	**(mg/kg)**
1,1,1-Trichloroethane	25	ND	ND	--
1,1,2,2-Tetrachloroethane	25	ND	ND	--
1,1,2-Trichloroethane	25	ND	ND	--
1,1-Dichloroethane	25	ND	ND	--
1,1-Dichloroethylene	25	ND	ND	--
1,2-Dichlorobenzene	25	ND	ND	--
1,2-Dichloroethane	25	ND	ND	--
1,2-Dichloropropane	25	ND	ND	--
1,3-Dichlorobenzene	25	ND	ND	--
1,4-Dichlorobenzene	25	ND	ND	--
Benzene	25	ND	ND	--
Bromodichloromethane	25	ND	ND	--
Bromoform	25	ND	ND	--
Carbon Tetrachloride	25	ND	ND	--
Chlorobenzene	25	ND	ND	--
Chloroform	25	ND	ND	--
Chloromethane	25	ND	ND	--
cis-1,2-Dichloroethylene	25	ND	ND	--
cis-1,3-Dichloropropene	25	ND	ND	--
Dibromochloromethane	25	ND	ND	--
Ethylbenzene	25	ND	ND	--
Ethylene Dibromide	25	ND	ND	--
Methylene Chloride(Dichloromethane)	25	ND	ND	--
o-Xylene	25	ND	ND	--
p+m-Xylene	25	ND	ND	--
Styrene	25	ND	ND	--
Tetrachloroethylene	25	ND	ND	--
Toluene	25	ND	ND	--
trans-1,2-Dichloroethylene	25	ND	ND	--
trans-1,3-Dichloropropene	25	ND	ND	--
Trichloroethylene	25	ND	ND	--
Trichlorofluoromethane (FREON 11)	25	ND	ND	--
Vinyl Chloride	25	ND	ND	--

Notes

RDL: Reportable Detection Limit
<X: Not detected above RDL
ND: Not Detectable
CCME: Canadian Council of Ministers of the Environment
FAL: Canadian Water Quality Guidelines for Freshwater Aquatic Life
--: Value not established

TABLE C-10: Dioxins and Furans Concentrations in Sediment of Denny's Pond and Three Corner Pond (pg/g)

	DATA			TOXIC EQUIVALENCY		DATA			TOXIC EQUIVALENCY	
Sample Location	Denny's Pond	EDL	RDL	--		Three Corner Pond	EDL	RDL	--	
Sampling Date	2012/06/18			--		2012/06/27			--	
Sample ID	**SED-DENNY'S POND**			**TEF (2005 WHO)**	**TEQ(DL)**	**SED-THREE CORNER POND**			**TEF (2005 WHO)**	**TEQ(DL)**
Parameter										
2,3,7,8-Tetra CDD *	ND	0.0689	0.999	1.00	0.0689	ND	0.0854	1.57	1.00	0.0854
1,2,3,7,8-Penta CDD	0.064	0.0552	0.999	1.00	0.0640	0.24	0.120	1.57	1.00	0.240
1,2,3,4,7,8-Hexa CDD	0.368	0.0578	0.999	0.100	0.0368	0.43	0.0840	1.57	0.100	0.0430
1,2,3,6,7,8-Hexa CDD	ND[1]	0.144	0.999	0.100	0.0144	0.71	0.0887	1.57	0.100	0.0710
1,2,3,7,8,9-Hexa CDD	0.438	0.0549	0.999	0.100	0.0438	0.86	0.0799	1.57	0.100	0.0860
1,2,3,4,6,7,8-Hepta CDD	1.22	0.0608	0.999	0.0100	0.0122	9.05	0.0963	1.57	0.0100	0.0905
Octa CDD	10.3	0.114	9.99	0.000300	0.00309	35.9	0.166	15.7	0.000300	0.0108
Total Tetra CDD	11.6	0.0689	0.999	--	--	18.0	0.0854	1.57	--	--
Total Penta CDD	3.49	0.0552	0.999	--	--	6.47	0.120	1.57	--	--
Total Hexa CDD	6.83	0.0566	0.999	--	--	12.5	0.0840	1.57	--	--
Total Hepta CDD	2.76	0.0608	0.999	--	--	18.9	0.0963	1.57	--	--
2,3,7,8-Tetra CDF **	ND[2]	0.406	0.999	0.100	0.0406	2.99	0.0823	1.57	0.100	0.299
1,2,3,7,8-Penta CDF	ND[1]	0.150	0.999	0.0300	0.00450	0.73	0.0895	1.57	0.0300	0.0219
2,3,4,7,8-Penta CDF	0.106	0.0571	0.999	0.300	0.0318	1.18	0.0852	1.57	0.300	0.354
1,2,3,4,7,8-Hexa CDF	0.194	0.0481	0.999	0.100	0.0194	1.15	0.0895	1.57	0.100	0.115
1,2,3,6,7,8-Hexa CDF	0.092	0.0435	0.999	0.100	0.00920	0.98	0.0883	1.57	0.100	0.0980
2,3,4,6,7,8-Hexa CDF	ND[1]	0.107	0.999	0.100	0.0107	1.18	0.104	1.57	0.100	0.118
1,2,3,7,8,9-Hexa CDF	0.095	0.0574	0.999	0.100	0.00950	ND	0.108	1.57	0.100	0.0108
1,2,3,4,6,7,8-Hepta CDF	0.311	0.0466	0.999	0.0100	0.00311	4.52	0.0893	1.57	0.0100	0.0452
1,2,3,4,7,8,9-Hepta CDF	0.088	0.0547	0.999	0.0100	0.000880	0.46	0.111	1.57	0.0100	0.00460
Octa CDF	0.36	0.103	9.99	0.000300	0.000108	3.1	0.169	15.7	0.000300	0.000930
Total Tetra CDF	20.6	0.0834	0.999	--	--	168	0.0823	1.57	--	--
Total Penta CDF	9.12	0.0588	0.999	--	--	22.5	0.0873	1.57	--	--
Total Hexa CDF	2.38	0.0505	0.999	--	--	12.0	0.0968	1.57	--	--
Total Hepta CDF	0.468	0.0503	0.999	--	--	6.86	0.0989	1.57	--	--
Confirmation 2,3,7,8-Tetra CDF	--	--	--	--	--	1.8	0.13	1.6	--	0.180
Total Toxic Equivalency	--	--	--		0.373	--	--	--	--	1.58

Notes:

RDL: Reportable Detection Limit
EDL: Estimated Detection Limit
ND: Not Detectable
CDD*: Chloro Dibenzo-p-Dioxin
CDF**: Chloro Dibenzo-p-Furan
TEF: Toxic Equivalency Factor of other dioxins and furans to 2,3,7,8-Tetra CDD
TEF Equivalent: Concentration of Dioxins and Furans multiplied by the TEF (WHO)
TEQ: Toxic Equivalency Quotient, the Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO: World Health Organisation
--: Value not established
[1]EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.
[2]RT > 3 seconds - PCDD/DF analysis - Peak detected exceeds expected
** EMPC / Merged Peak

APPENDIX D

Laboratory Reports

Your P.O. #: 008959
Your Project #: 508907
Site Location: NEW HARBOUR
Your C.O.C. #: B 081676

Attention: Jason Green
SNC-Lavalin Inc, Environment Division
1133 Topsail Rd
Mount Pearl, NL
A1N 5G2

Report Date: 2012/07/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B290951
Received: 2012/06/20, 09:23

Sample Matrix: Soil
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Dioxins/Furans in Soil (EPS 1/RM/23) (1,3)	1	2012/06/26	2012/06/28	BRL SOP-00410	EPS 1/RM/23 mod
TEH in Soil (PIRI) (2,4)	2	2012/06/21	2012/06/22	ATL SOP 00111	Based on Atl. PIRI
Metals Solid Avail. Unified MS - Nper (2)	2	2012/06/22	2012/06/25	ATL SOP 00024	Based on EPA6020A
Moisture (2)	2	N/A	2012/06/20	ATL SOP 00001	MOE Handbook 1983
PAH Compounds by GCMS (SIM) (2,4)	1	2012/06/22	2012/06/22	ATL SOP 00102	Based on EPA8270C
PCBs in soil by GC/ECD (2,4)	1	2012/06/21	2012/06/22	ATL SOP 00106	Based on EPA8082
VPH in Soil (PIRI) (2)	2	2012/06/20	2012/06/21	ATL SOP 00119	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil (2)	1	2012/06/20	2012/06/22		Based on Atl. PIRI
ModTPH (T1) Calc. for Soil (2)	1	2012/06/20	2012/06/25		Based on Atl. PIRI
Volatile Organic Compounds in Soil (2)	1	2012/06/20	2012/06/25	ATL SOP 00123	Based on 8260B mod

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide (2)	3	N/A	2012/06/21	CAM SOP-00102	APHA 4500-CO2 D
Alkalinity (2)	3	N/A	2012/06/25	ATL SOP 00013	Based on EPA310.2
Chloride (2)	3	N/A	2012/06/26	ATL SOP 00014	Based on SM4500-Cl-
Colour (2)	3	N/A	2012/06/26	ATL SOP 00020	Based on SM2120C
Dioxins/Furans in Water (EPS 1/RM/23) (1,5)	1	2012/06/29	2012/07/05	BRL SOP-00410	EPS 1/RM/23 mod
Dioxins/Furans in Water (EPS 1/RM/23) (1,5)	2	2012/07/04	2012/07/06	BRL SOP-00410	EPS 1/RM/23 mod
Conductance - water (2)	3	N/A	2012/06/21	ATL SOP 00004/00006	Based on SM2510B
Hardness (calculated as CaCO3) (2)	3	N/A	2012/06/22	ATL SOP 00048	Based on SM2340B
Metals Water Total MS (2)	3	2012/06/21	2012/06/21	ATL SOP 00059	Based on EPA6020A
Ion Balance (% Difference) (2)	3	N/A	2012/06/26		
Anion and Cation Sum (2)	3	N/A	2012/06/22		
Nitrogen Ammonia - water (2)	3	N/A	2012/06/21	ATL SOP 00015	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite (2)	3	N/A	2012/06/26	ATL SOP 00016	Based on USGS - Enz.
Nitrogen - Nitrite (2)	3	N/A	2012/06/26	ATL SOP 00017	Based on SM4500-NO2B
Nitrogen - Nitrate (as N) (2)	3	N/A	2012/06/26	ATL SOP 00018	Based on ASTMD3867
PCBs in water by GC/ECD (2)	3	2012/06/21	2012/06/25	ATL SOP 00107	Based on EPA8082
pH (2)	3	N/A	2012/06/21	ATL SOP 00003	Based on SM4500H+B
Phosphorus - ortho (2)	3	N/A	2012/06/26	ATL SOP 00021	Based on USEPA 365.1
Sat. pH and Langelier Index (@ 20C) (2)	3	N/A	2012/06/26		
Sat. pH and Langelier Index (@ 4C) (2)	3	N/A	2012/06/26		

../2

Your P.O. #: 008959
Your Project #: 508907
Site Location: NEW HARBOUR
Your C.O.C. #: B 081676

Attention: Jason Green
SNC-Lavalin Inc, Environment Division
1133 Topsail Rd
Mount Pearl, NL
A1N 5G2

Report Date: 2012/07/09

CERTIFICATE OF ANALYSIS

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Reactive Silica (2)	3	N/A	2012/06/26	ATL SOP 00022	Based on EPA 366.0
Sulphate (2)	3	N/A	2012/06/26	ATL SOP 00023	Based on EPA 375.4
Total Dissolved Solids (TDS calc) (2)	3	N/A	2012/06/26		
Organic carbon - Total (TOC) (2)	1	N/A	2012/06/25	ATL SOP 00037	Based on SM5310C
Organic carbon - Total (TOC) (2)	2	N/A	2012/06/26	ATL SOP 00037	Based on SM5310C
Turbidity (2)	3	N/A	2012/06/21	ATL SOP 00011	based on EPA 180.1

Remarks:

Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Analytics Mississauga
(2) This test was performed by Bedford
(3) Soils are reported on a dry weight basis unless otherwise specified.

Confirmatory runs for 2,3,7,8-TCDF are performed only if the primary result is greater than the RDL.
(4) Soils are reported on a dry weight basis unless otherwise specified.
(5) Confirmatory runs for 2,3,7,8-TCDF are performed only if the primary result is greater than the RDL.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Michelle Hill, Project Manager
Email: MHill@maxxam.ca
Phone# (902) 420-0203 Ext:289

==========

Your P.O. #: 008959
Your Project #: 508907
Site Location: NEW HARBOUR
Your C.O.C. #: B 081676

Attention: Jason Green
SNC-Lavalin Inc, Environment Division
1133 Topsail Rd
Mount Pearl, NL
A1N 5G2

Report Date: 2012/07/09

CERTIFICATE OF ANALYSIS

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 3

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Maxxam Job #: B290951
Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

ATLANTIC MUST IN SOIL (SOIL)

Maxxam ID		NV9584	NV9585		
Sampling Date		2012/06/18	2012/06/18		
COC Number		B 081676	B 081676		
	Units	**SED-DENNY'S POND**	**SED-DENNY'S POND-1**	**RDL**	**QC Batch**
Inorganics					
Moisture	%	86	91	1	2885779
Petroleum Hydrocarbons					
Benzene	mg/kg	1.7	ND	0.025	2887269
Toluene	mg/kg	14	2.0	0.025	2887269
Ethylbenzene	mg/kg	9.2	0.93	0.025	2887269
Xylene (Total)	mg/kg	52	5.1	0.050	2887269
C6 - C10 (less BTEX)	mg/kg	17	ND	2.5	2887269
>C10-C16 Hydrocarbons	mg/kg	ND	ND	10	2887638
>C16-C21 Hydrocarbons	mg/kg	ND	ND	10	2887638
>C21-<C32 Hydrocarbons	mg/kg	150	ND	15	2887638
Modified TPH (Tier1)	mg/kg	170	ND	15	2885816
Reached Baseline at C32	mg/kg	Yes	NA	N/A	2887638
Hydrocarbon Resemblance	mg/kg	COMMENT (1)	NA	N/A	2887638
Surrogate Recovery (%)					
Isobutylbenzene - Extractable	%	104	90		2887638
n-Dotriacontane - Extractable	%	104	100		2887638
Isobutylbenzene - Volatile	%	105	101		2887269

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) One product in the gasoline range. Possible lube oil fraction.

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Maxxam Job #: B290951
Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		NV9581		NV9582		
Sampling Date		2012/06/18		2012/06/18		
COC Number		B 081676		B 081676		
	Units	**SW-DENNY'S POND (0-0.15M)**	**QC Batch**	**MIDSW-DENNY'S POND (2.5M)**	**RDL**	**QC Batch**
Calculated Parameters						
Anion Sum	me/L	0.220	2885800	0.220	N/A	2885800
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	ND	2885797	ND	1.0	2885797
Calculated TDS	mg/L	16.0	2885805	16.0	1.0	2885805
Carb. Alkalinity (calc. as CaCO3)	mg/L	ND	2885797	ND	1.0	2885797
Cation Sum	me/L	0.330	2885800	0.340	N/A	2885800
Hardness (CaCO3)	mg/L	5.0	2885798	5.2	1.0	2885798
Ion Balance (% Difference)	%	20.0	2885799	21.4	N/A	2885799
Langelier Index (@ 20C)	N/A	NC	2885803	NC		2885803
Langelier Index (@ 4C)	N/A	NC	2885804	NC		2885804
Nitrate (N)	mg/L	ND	2885801	ND	0.050	2885801
Saturation pH (@ 20C)	N/A	NC	2885803	NC		2885803
Saturation pH (@ 4C)	N/A	NC	2885804	NC		2885804
Inorganics						
Total Alkalinity (Total as CaCO3)	mg/L	ND	2888419	ND	5.0	2888419
Dissolved Chloride (Cl)	mg/L	7.9	2888426	7.9	1.0	2888426
Colour	TCU	25	2888433	25	5.0	2888433
Nitrate + Nitrite	mg/L	ND	2888438	ND	0.050	2888438
Nitrite (N)	mg/L	ND	2888440	ND	0.010	2888440
Nitrogen (Ammonia Nitrogen)	mg/L	ND	2887009	ND	0.050	2887009
Total Organic Carbon (C)	mg/L	3.9	2890207	3.7	0.50	2890213
Orthophosphate (P)	mg/L	ND	2888436	ND	0.010	2888436
pH	pH	6.29	2886978	6.16	N/A	2886978
Reactive Silica (SiO2)	mg/L	0.70	2888432	0.69	0.50	2888432
Dissolved Sulphate (SO4)	mg/L	ND	2888430	ND	2.0	2888430
Turbidity	NTU	0.37	2886984	0.47	0.10	2886984
Conductivity	uS/cm	38	2886979	38	1.0	2886979
Metals						
Total Aluminum (Al)	ug/L	94.2	2886996	98.0	5.0	2886996
Total Antimony (Sb)	ug/L	ND	2886996	ND	1.0	2886996

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B290951
Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		NV9581		NV9582		
Sampling Date		2012/06/18		2012/06/18		
COC Number		B 081676		B 081676		
	Units	**SW-DENNY'S POND (0-0.15M)**	**QC Batch**	**MIDSW-DENNY'S POND (2.5M)**	**RDL**	**QC Batch**
Total Arsenic (As)	ug/L	ND	2886996	ND	1.0	2886996
Total Barium (Ba)	ug/L	1.1	2886996	1.4	1.0	2886996
Total Beryllium (Be)	ug/L	ND	2886996	ND	1.0	2886996
Total Bismuth (Bi)	ug/L	ND	2886996	ND	2.0	2886996
Total Boron (B)	ug/L	ND	2886996	ND	50	2886996
Total Cadmium (Cd)	ug/L	ND	2886996	ND	0.017	2886996
Total Calcium (Ca)	ug/L	1110	2886996	1150	100	2886996
Total Chromium (Cr)	ug/L	ND	2886996	ND	1.0	2886996
Total Cobalt (Co)	ug/L	ND	2886996	ND	0.40	2886996
Total Copper (Cu)	ug/L	ND	2886996	ND	2.0	2886996
Total Iron (Fe)	ug/L	91	2886996	104	50	2886996
Total Lead (Pb)	ug/L	ND	2886996	ND	0.50	2886996
Total Magnesium (Mg)	ug/L	539	2886996	560	100	2886996
Total Manganese (Mn)	ug/L	12.0	2886996	13.8	2.0	2886996
Total Molybdenum (Mo)	ug/L	ND	2886996	ND	2.0	2886996
Total Nickel (Ni)	ug/L	ND	2886996	ND	2.0	2886996
Total Phosphorus (P)	ug/L	ND	2886996	ND	100	2886996
Total Potassium (K)	ug/L	185	2886996	189	100	2886996
Total Selenium (Se)	ug/L	ND	2886996	ND	1.0	2886996
Total Silver (Ag)	ug/L	ND	2886996	ND	0.10	2886996
Total Sodium (Na)	ug/L	5050	2886996	5240	100	2886996
Total Strontium (Sr)	ug/L	4.8	2886996	4.9	2.0	2886996
Total Thallium (Tl)	ug/L	ND	2886996	ND	0.10	2886996
Total Tin (Sn)	ug/L	ND	2886996	ND	2.0	2886996
Total Titanium (Ti)	ug/L	ND	2886996	2.1	2.0	2886996
Total Uranium (U)	ug/L	ND	2886996	ND	0.10	2886996
Total Vanadium (V)	ug/L	ND	2886996	ND	2.0	2886996
Total Zinc (Zn)	ug/L	ND	2886996	ND	5.0	2886996

ND = Not detected
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QC Batch = Quality Control Batch

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Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		NV9583		
Sampling Date		2012/06/18		
COC Number		B 081676		
	Units	**BOTTOMSW-DENNY'S POND (5.0M)**	**RDL**	**QC Batch**
Calculated Parameters				
Anion Sum	me/L	0.230	N/A	2885800
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	ND	1.0	2885797
Calculated TDS	mg/L	16.0	1.0	2885805
Carb. Alkalinity (calc. as CaCO3)	mg/L	ND	1.0	2885797
Cation Sum	me/L	0.350	N/A	2885800
Hardness (CaCO3)	mg/L	5.2	1.0	2885798
Ion Balance (% Difference)	%	20.7	N/A	2885799
Langelier Index (@ 20C)	N/A	NC		2885803
Langelier Index (@ 4C)	N/A	NC		2885804
Nitrate (N)	mg/L	ND	0.050	2885801
Saturation pH (@ 20C)	N/A	NC		2885803
Saturation pH (@ 4C)	N/A	NC		2885804
Inorganics				
Total Alkalinity (Total as CaCO3)	mg/L	ND	5.0	2888419
Dissolved Chloride (Cl)	mg/L	8.0	1.0	2888426
Colour	TCU	26	5.0	2888433
Nitrate + Nitrite	mg/L	ND	0.050	2888438
Nitrite (N)	mg/L	ND	0.010	2888440
Nitrogen (Ammonia Nitrogen)	mg/L	ND	0.050	2887009
Total Organic Carbon (C)	mg/L	3.8	0.50	2890213
Orthophosphate (P)	mg/L	ND	0.010	2888436
pH	pH	6.13	N/A	2886978
Reactive Silica (SiO2)	mg/L	0.69	0.50	2888432
Dissolved Sulphate (SO4)	mg/L	ND	2.0	2888430
Turbidity	NTU	0.70	0.10	2886984
Conductivity	uS/cm	38	1.0	2886979
Metals				
Total Aluminum (Al)	ug/L	182	5.0	2886996
Total Antimony (Sb)	ug/L	ND	1.0	2886996
Total Arsenic (As)	ug/L	ND	1.0	2886996

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B290951
Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		NV9583		
Sampling Date		2012/06/18		
COC Number		B 081676		
	Units	**BOTTOMSW-DENNY'S POND (5.0M)**	**RDL**	**QC Batch**
Total Barium (Ba)	ug/L	1.8	1.0	2886996
Total Beryllium (Be)	ug/L	ND	1.0	2886996
Total Bismuth (Bi)	ug/L	ND	2.0	2886996
Total Boron (B)	ug/L	ND	50	2886996
Total Cadmium (Cd)	ug/L	ND	0.017	2886996
Total Calcium (Ca)	ug/L	1150	100	2886996
Total Chromium (Cr)	ug/L	ND	1.0	2886996
Total Cobalt (Co)	ug/L	ND	0.40	2886996
Total Copper (Cu)	ug/L	ND	2.0	2886996
Total Iron (Fe)	ug/L	261	50	2886996
Total Lead (Pb)	ug/L	ND	0.50	2886996
Total Magnesium (Mg)	ug/L	567	100	2886996
Total Manganese (Mn)	ug/L	57.6	2.0	2886996
Total Molybdenum (Mo)	ug/L	ND	2.0	2886996
Total Nickel (Ni)	ug/L	ND	2.0	2886996
Total Phosphorus (P)	ug/L	ND	100	2886996
Total Potassium (K)	ug/L	199	100	2886996
Total Selenium (Se)	ug/L	ND	1.0	2886996
Total Silver (Ag)	ug/L	ND	0.10	2886996
Total Sodium (Na)	ug/L	5260	100	2886996
Total Strontium (Sr)	ug/L	5.2	2.0	2886996
Total Thallium (Tl)	ug/L	ND	0.10	2886996
Total Tin (Sn)	ug/L	ND	2.0	2886996
Total Titanium (Ti)	ug/L	5.4	2.0	2886996
Total Uranium (U)	ug/L	ND	0.10	2886996
Total Vanadium (V)	ug/L	ND	2.0	2886996
Total Zinc (Zn)	ug/L	ND	5.0	2886996

ND = Not detected
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QC Batch = Quality Control Batch

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SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

ATLANTIC VOC IN SOIL (SOIL)

Maxxam ID		NV9584		
Sampling Date		2012/06/18		
COC Number		B 081676		
	Units	**SED-DENNY'S POND**	**RDL**	**QC Batch**
Volatile Organics				
1,1,1-Trichloroethane	ug/kg	ND	25	2889003
1,1,2,2-Tetrachloroethane	ug/kg	ND	25	2889003
1,1,2-Trichloroethane	ug/kg	ND	25	2889003
1,1-Dichloroethane	ug/kg	ND	25	2889003
1,1-Dichloroethylene	ug/kg	ND	25	2889003
1,2-Dichlorobenzene	ug/kg	ND	25	2889003
1,2-Dichloroethane	ug/kg	ND	25	2889003
1,2-Dichloropropane	ug/kg	ND	25	2889003
1,3-Dichlorobenzene	ug/kg	ND	25	2889003
1,4-Dichlorobenzene	ug/kg	ND	25	2889003
Benzene	ug/kg	ND	25	2889003
Bromodichloromethane	ug/kg	ND	25	2889003
Bromoform	ug/kg	ND	25	2889003
Carbon Tetrachloride	ug/kg	ND	25	2889003
Chlorobenzene	ug/kg	ND	25	2889003
Chloroform	ug/kg	ND	25	2889003
Chloromethane	ug/kg	ND	25	2889003
cis-1,2-Dichloroethylene	ug/kg	ND	25	2889003
cis-1,3-Dichloropropene	ug/kg	ND	25	2889003
Dibromochloromethane	ug/kg	ND	25	2889003
Ethylbenzene	ug/kg	ND	25	2889003
Ethylene Dibromide	ug/kg	ND	25	2889003
Methylene Chloride(Dichloromethane)	ug/kg	ND	25	2889003
o-Xylene	ug/kg	ND	25	2889003
p+m-Xylene	ug/kg	ND	25	2889003
Styrene	ug/kg	ND	25	2889003
Tetrachloroethylene	ug/kg	ND	25	2889003
Toluene	ug/kg	ND	25	2889003
trans-1,2-Dichloroethylene	ug/kg	ND	25	2889003
trans-1,3-Dichloropropene	ug/kg	ND	25	2889003

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

ATLANTIC VOC IN SOIL (SOIL)

Maxxam ID		NV9584		
Sampling Date		2012/06/18		
COC Number		B 081676		
	Units	**SED-DENNY'S POND**	**RDL**	**QC Batch**
Trichloroethylene	ug/kg	ND	25	2889003
Trichlorofluoromethane (FREON 11)	ug/kg	ND	25	2889003
Vinyl Chloride	ug/kg	ND	25	2889003
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	85		2889003
D4-1,2-Dichloroethane	%	95		2889003
D8-Toluene	%	90		2889003

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QC Batch = Quality Control Batch

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SNC-Lavalin Inc, Environment Division
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Site Location: NEW HARBOUR
Your P.O. #: 008959

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		NV9584	NV9585		
Sampling Date		2012/06/18	2012/06/18		
COC Number		B 081676	B 081676		
	Units	**SED-DENNY'S POND**	**SED-DENNY'S POND-1**	**RDL**	**QC Batch**
Metals					
Available Aluminum (Al)	mg/kg	25000	26000	10	2888616
Available Antimony (Sb)	mg/kg	ND	ND	2.0	2888616
Available Arsenic (As)	mg/kg	19	17	2.0	2888616
Available Barium (Ba)	mg/kg	47	41	5.0	2888616
Available Beryllium (Be)	mg/kg	2.6	2.8	2.0	2888616
Available Bismuth (Bi)	mg/kg	ND	ND	2.0	2888616
Available Boron (B)	mg/kg	ND	ND	5.0	2888616
Available Cadmium (Cd)	mg/kg	0.64	0.64	0.30	2888616
Available Chromium (Cr)	mg/kg	11	12	2.0	2888616
Available Cobalt (Co)	mg/kg	75	44	1.0	2888616
Available Copper (Cu)	mg/kg	18	19	2.0	2888616
Available Iron (Fe)	mg/kg	45000	42000	50	2888616
Available Lead (Pb)	mg/kg	21	25	0.50	2888616
Available Lithium (Li)	mg/kg	3.8	4.3	2.0	2888616
Available Manganese (Mn)	mg/kg	2600	2500	2.0	2888616
Available Mercury (Hg)	mg/kg	0.27	0.26	0.10	2888616
Available Molybdenum (Mo)	mg/kg	2.0	ND	2.0	2888616
Available Nickel (Ni)	mg/kg	9.4	10	2.0	2888616
Available Rubidium (Rb)	mg/kg	2.5	2.5	2.0	2888616
Available Selenium (Se)	mg/kg	2.3	2.1	2.0	2888616
Available Silver (Ag)	mg/kg	ND	ND	0.50	2888616
Available Strontium (Sr)	mg/kg	11	10	5.0	2888616
Available Thallium (Tl)	mg/kg	0.11	ND	0.10	2888616
Available Tin (Sn)	mg/kg	ND	ND	2.0	2888616
Available Uranium (U)	mg/kg	1.3	1.2	0.10	2888616
Available Vanadium (V)	mg/kg	38	38	2.0	2888616
Available Zinc (Zn)	mg/kg	100	100	5.0	2888616

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		NV9584	NV9584		
Sampling Date		2012/06/18	2012/06/18		
COC Number		B 081676	B 081676		
	Units	**SED-DENNY'S POND**	**SED-DENNY'S POND Lab-Dup**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons					
1-Methylnaphthalene	mg/kg	ND	ND	0.010	2888298
2-Methylnaphthalene	mg/kg	ND	ND	0.010	2888298
Acenaphthene	mg/kg	ND	ND	0.010	2888298
Acenaphthylene	mg/kg	ND	ND	0.010	2888298
Anthracene	mg/kg	ND	ND	0.010	2888298
Benzo(a)anthracene	mg/kg	ND	ND	0.010	2888298
Benzo(a)pyrene	mg/kg	ND	ND	0.010	2888298
Benzo(b)fluoranthene	mg/kg	ND	ND	0.010	2888298
Benzo(g,h,i)perylene	mg/kg	ND	ND	0.010	2888298
Benzo(j)fluoranthene	mg/kg	ND	ND	0.010	2888298
Benzo(k)fluoranthene	mg/kg	ND	ND	0.010	2888298
Chrysene	mg/kg	ND	ND	0.010	2888298
Dibenz(a,h)anthracene	mg/kg	ND	ND	0.010	2888298
Fluoranthene	mg/kg	ND	ND	0.010	2888298
Fluorene	mg/kg	ND	ND	0.010	2888298
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	0.010	2888298
Naphthalene	mg/kg	ND	ND	0.010	2888298
Perylene	mg/kg	9.4	10	0.010	2888298
Phenanthrene	mg/kg	ND	ND	0.010	2888298
Pyrene	mg/kg	ND	ND	0.010	2888298
Surrogate Recovery (%)					
D10-Anthracene	%	83	84		2888298
D14-Terphenyl (FS)	%	104	102		2888298
D8-Acenaphthylene	%	83	86		2888298

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QC Batch = Quality Control Batch

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Your P.O. #: 008959

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		NV9584	NV9584		
Sampling Date		2012/06/18	2012/06/18		
COC Number		B 081676	B 081676		
	Units	**SED-DENNY'S POND**	**SED-DENNY'S POND Lab-Dup**	**RDL**	**QC Batch**
PCBs					
Total PCB	ug/g	ND	ND	0.050	2887280
Surrogate Recovery (%)					
Decachlorobiphenyl	%	83	83		2887280

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B290951
Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

DIOXINS AND FURANS BY HRMS (SOIL)

Maxxam ID		NV9584						
Sampling Date		2012/06/18						
COC Number		B 081676			TOXIC EQUIVALENCY		# of	
	Units	**SED-DENNY'S POND**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/g	ND	0.0689	0.999	1.00	0.0689		2893635
1,2,3,7,8-Penta CDD	pg/g	0.064	0.0552	0.999	1.00	0.0640		2893635
1,2,3,4,7,8-Hexa CDD	pg/g	0.368	0.0578	0.999	0.100	0.0368		2893635
1,2,3,6,7,8-Hexa CDD	pg/g	ND (1)	0.144	0.999	0.100	0.0144		2893635
1,2,3,7,8,9-Hexa CDD	pg/g	0.438	0.0549	0.999	0.100	0.0438		2893635
1,2,3,4,6,7,8-Hepta CDD	pg/g	1.22	0.0608	0.999	0.0100	0.0122		2893635
Octa CDD	pg/g	10.3	0.114	9.99	0.000300	0.00309		2893635
Total Tetra CDD	pg/g	11.6	0.0689	0.999				2893635
Total Penta CDD	pg/g	3.49	0.0552	0.999				2893635
Total Hexa CDD	pg/g	6.83	0.0566	0.999				2893635
Total Hepta CDD	pg/g	2.76	0.0608	0.999				2893635
2,3,7,8-Tetra CDF **	pg/g	ND (2)	0.406	0.999	0.100	0.0406		2893635
1,2,3,7,8-Penta CDF	pg/g	ND (1)	0.150	0.999	0.0300	0.00450		2893635
2,3,4,7,8-Penta CDF	pg/g	0.106	0.0571	0.999	0.300	0.0318		2893635
1,2,3,4,7,8-Hexa CDF	pg/g	0.194	0.0481	0.999	0.100	0.0194		2893635
1,2,3,6,7,8-Hexa CDF	pg/g	0.092	0.0435	0.999	0.100	0.00920		2893635
2,3,4,6,7,8-Hexa CDF	pg/g	ND (1)	0.107	0.999	0.100	0.0107		2893635
1,2,3,7,8,9-Hexa CDF	pg/g	0.095	0.0574	0.999	0.100	0.00950		2893635
1,2,3,4,6,7,8-Hepta CDF	pg/g	0.311	0.0466	0.999	0.0100	0.00311		2893635
1,2,3,4,7,8,9-Hepta CDF	pg/g	0.088	0.0547	0.999	0.0100	0.000880		2893635
Octa CDF	pg/g	0.36	0.103	9.99	0.000300	0.000108		2893635
Total Tetra CDF	pg/g	20.6	0.0834	0.999				2893635
Total Penta CDF	pg/g	9.12	0.0588	0.999				2893635

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.
(2) RT > 3 seconds - PCDD/DF analysis - Peak detected exceeds expected retention time (from internal standard) by greater than 3 seconds.

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Maxxam Job #: B290951
Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

DIOXINS AND FURANS BY HRMS (SOIL)

Maxxam ID		NV9584						
Sampling Date		2012/06/18						
COC Number		B 081676			**TOXIC EQUIVALENCY**		**# of**	
	Units	**SED-DENNY'S POND**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
Total Hexa CDF **	pg/g	2.38	0.0505	0.999				2893635
Total Hepta CDF	pg/g	0.468	0.0503	0.999				2893635
TOTAL TOXIC EQUIVALENCY	pg/g					0.373		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	82						2893635
C13-1234678 HeptaCDF	%	90						2893635
C13-123678 HexaCDD	%	73						2893635
C13-123678 HexaCDF	%	71						2893635
C13-12378 PentaCDD	%	90						2893635
C13-12378 PentaCDF	%	78						2893635
C13-2378 TetraCDD	%	84						2893635
C13-2378 TetraCDF	%	74						2893635
C13-OCDD	%	102						2893635

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Maxxam ID		NV9581	NV9581		
Sampling Date		2012/06/18	2012/06/18		
COC Number		B 081676	B 081676		
	Units	**SW-DENNY'S POND (0-0.15M)**	**SW-DENNY'S POND (0-0.15M) Lab-Dup**	**RDL**	**QC Batch**
PCBs					
Total PCB	ug/L	ND	ND	0.050	2887366
Surrogate Recovery (%)					
Decachlorobiphenyl	%	78	78		2887366

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		NV9582	NV9583		
Sampling Date		2012/06/18	2012/06/18		
COC Number		B 081676	B 081676		
	Units	**MIDSW-DENNY'S POND (2.5M)**	**BOTTOMSW-DENNY'S POND (5.0M)**	**RDL**	**QC Batch**
PCBs					
Total PCB	ug/L	ND	ND	0.050	2887366
Surrogate Recovery (%)					
Decachlorobiphenyl	%	73	73		2887366

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NV9581						
Sampling Date		2012/06/18						
COC Number		B 081676			**TOXIC EQUIVALENCY**		**# of**	
	Units	**SW-DENNY'S POND (0-0.15M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	ND	0.765	10.1	1.00	0.765		2902845
1,2,3,7,8-Penta CDD	pg/L	ND	0.668	10.1	1.00	0.668		2902845
1,2,3,4,7,8-Hexa CDD	pg/L	ND	0.766	10.1	0.100	0.0766		2902845
1,2,3,6,7,8-Hexa CDD	pg/L	ND	0.809	10.1	0.100	0.0809		2902845
1,2,3,7,8,9-Hexa CDD	pg/L	ND	0.729	10.1	0.100	0.0729		2902845
1,2,3,4,6,7,8-Hepta CDD	pg/L	ND (1)	1.05	10.1	0.0100	0.0105		2902845
Octa CDD	pg/L	4	1.73	101	0.000300	0.00120		2902845
Total Tetra CDD	pg/L	ND	0.765	10.1				2902845
Total Penta CDD	pg/L	ND	0.668	10.1				2902845
Total Hexa CDD	pg/L	ND	0.766	10.1				2902845
Total Hepta CDD	pg/L	ND (1)	1.05	10.1				2902845
2,3,7,8-Tetra CDF **	pg/L	ND	0.686	10.1	0.100	0.0686		2902845
1,2,3,7,8-Penta CDF	pg/L	ND	0.740	10.1	0.0300	0.0222		2902845
2,3,4,7,8-Penta CDF	pg/L	ND	0.704	10.1	0.300	0.211		2902845
1,2,3,4,7,8-Hexa CDF	pg/L	ND	0.490	10.1	0.100	0.0490		2902845
1,2,3,6,7,8-Hexa CDF	pg/L	ND	0.484	10.1	0.100	0.0484		2902845
2,3,4,6,7,8-Hexa CDF	pg/L	ND	0.571	10.1	0.100	0.0571		2902845
1,2,3,7,8,9-Hexa CDF	pg/L	ND	0.594	10.1	0.100	0.0594		2902845
1,2,3,4,6,7,8-Hepta CDF	pg/L	ND (1)	0.747	10.1	0.0100	0.00747		2902845
1,2,3,4,7,8,9-Hepta CDF	pg/L	ND	0.730	10.1	0.0100	0.00730		2902845
Octa CDF	pg/L	ND	1.04	101	0.000300	0.000312		2902845
Total Tetra CDF	pg/L	ND	0.686	10.1				2902845
Total Penta CDF	pg/L	ND	0.721	10.1				2902845
Total Hexa CDF	pg/L	ND	0.530	10.1				2902845

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NV9581						
Sampling Date		2012/06/18						
COC Number		B 081676			**TOXIC EQUIVALENCY**		**# of**	
	Units	**SW-DENNY'S POND (0-0.15M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
Total Hepta CDF **	pg/L	ND (1)	0.827	10.1				2902845
TOTAL TOXIC EQUIVALENCY	pg/L					2.21		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	76						2902845
C13-1234678 HeptaCDF	%	81						2902845
C13-123678 HexaCDD	%	80						2902845
C13-123678 HexaCDF	%	79						2902845
C13-12378 PentaCDD	%	92						2902845
C13-12378 PentaCDF	%	82						2902845
C13-2378 TetraCDD	%	87						2902845
C13-2378 TetraCDF	%	86						2902845
C13-OCDD	%	97						2902845

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NV9582						
Sampling Date		2012/06/18						
COC Number		B 081676			TOXIC EQUIVALENCY		# of	
	Units	**MIDSW-DENNY'S POND (2.5M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	ND	0.617	9.52	1.00	0.617		2896933
1,2,3,7,8-Penta CDD	pg/L	ND	0.544	9.52	1.00	0.544		2896933
1,2,3,4,7,8-Hexa CDD	pg/L	ND	0.584	9.52	0.100	0.0584		2896933
1,2,3,6,7,8-Hexa CDD	pg/L	ND	0.576	9.52	0.100	0.0576		2896933
1,2,3,7,8,9-Hexa CDD	pg/L	ND	0.555	9.52	0.100	0.0555		2896933
1,2,3,4,6,7,8-Hepta CDD	pg/L	ND	0.576	9.52	0.0100	0.00576		2896933
Octa CDD	pg/L	ND	1.04	95.2	0.000300	0.000312		2896933
Total Tetra CDD	pg/L	ND	0.617	9.52				2896933
Total Penta CDD	pg/L	ND	0.544	9.52				2896933
Total Hexa CDD	pg/L	ND	0.572	9.52				2896933
Total Hepta CDD	pg/L	ND	0.576	9.52				2896933
2,3,7,8-Tetra CDF **	pg/L	ND	0.656	9.52	0.100	0.0656		2896933
1,2,3,7,8-Penta CDF	pg/L	ND	0.510	9.52	0.0300	0.0153		2896933
2,3,4,7,8-Penta CDF	pg/L	ND	0.482	9.52	0.300	0.145		2896933
1,2,3,4,7,8-Hexa CDF	pg/L	ND	0.450	9.52	0.100	0.0450		2896933
1,2,3,6,7,8-Hexa CDF	pg/L	ND	0.408	9.52	0.100	0.0408		2896933
2,3,4,6,7,8-Hexa CDF	pg/L	ND	0.520	9.52	0.100	0.0520		2896933
1,2,3,7,8,9-Hexa CDF	pg/L	ND	0.538	9.52	0.100	0.0538		2896933
1,2,3,4,6,7,8-Hepta CDF	pg/L	ND	0.513	9.52	0.0100	0.00513		2896933
1,2,3,4,7,8,9-Hepta CDF	pg/L	ND	0.602	9.52	0.0100	0.00602		2896933
Octa CDF	pg/L	ND	0.764	95.2	0.000300	0.000229		2896933
Total Tetra CDF	pg/L	ND	0.656	9.52				2896933
Total Penta CDF	pg/L	ND	0.496	9.52				2896933
Total Hexa CDF	pg/L	ND	0.473	9.52				2896933
Total Hepta CDF	pg/L	ND	0.554	9.52				2896933

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Site Location: NEW HARBOUR
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DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NV9582						
Sampling Date		2012/06/18						
COC Number		B 081676			**TOXIC EQUIVALENCY**		**# of**	
	Units	**MIDSW-DENNY'S POND (2.5M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
TOTAL TOXIC EQUIVALENCY	pg/L					1.77		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	89						2896933
C13-1234678 HeptaCDF **	%	97						2896933
C13-123678 HexaCDD	%	76						2896933
C13-123678 HexaCDF	%	75						2896933
C13-12378 PentaCDD	%	90						2896933
C13-12378 PentaCDF	%	79						2896933
C13-2378 TetraCDD	%	77						2896933
C13-2378 TetraCDF	%	72						2896933
C13-OCDD	%	120						2896933

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Site Location: NEW HARBOUR
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DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NV9583						
Sampling Date		2012/06/18						
COC Number		B 081676			TOXIC EQUIVALENCY		# of	
	Units	**BOTTOMSW-DENNY'S POND (5.0M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	ND	0.591	10.2	1.00	0.591		2902845
1,2,3,7,8-Penta CDD	pg/L	ND	0.806	10.2	1.00	0.806		2902845
1,2,3,4,7,8-Hexa CDD	pg/L	ND	0.511	10.2	0.100	0.0511		2902845
1,2,3,6,7,8-Hexa CDD	pg/L	ND	0.540	10.2	0.100	0.0540		2902845
1,2,3,7,8,9-Hexa CDD	pg/L	ND	0.486	10.2	0.100	0.0486		2902845
1,2,3,4,6,7,8-Hepta CDD	pg/L	1.1	0.610	10.2	0.0100	0.0110		2902845
Octa CDD	pg/L	ND	1.18	102	0.000300	0.000354		2902845
Total Tetra CDD	pg/L	ND	0.591	10.2				2902845
Total Penta CDD	pg/L	ND	0.806	10.2				2902845
Total Hexa CDD	pg/L	ND	0.512	10.2				2902845
Total Hepta CDD	pg/L	1.1	0.610	10.2				2902845
2,3,7,8-Tetra CDF **	pg/L	ND	0.683	10.2	0.100	0.0683		2902845
1,2,3,7,8-Penta CDF	pg/L	ND	0.644	10.2	0.0300	0.0193		2902845
2,3,4,7,8-Penta CDF	pg/L	ND	0.613	10.2	0.300	0.184		2902845
1,2,3,4,7,8-Hexa CDF	pg/L	ND	0.435	10.2	0.100	0.0435		2902845
1,2,3,6,7,8-Hexa CDF	pg/L	ND	0.430	10.2	0.100	0.0430		2902845
2,3,4,6,7,8-Hexa CDF	pg/L	ND	0.508	10.2	0.100	0.0508		2902845
1,2,3,7,8,9-Hexa CDF	pg/L	ND	0.528	10.2	0.100	0.0528		2902845
1,2,3,4,6,7,8-Hepta CDF	pg/L	ND	0.470	10.2	0.0100	0.00470		2902845
1,2,3,4,7,8,9-Hepta CDF	pg/L	ND	0.583	10.2	0.0100	0.00583		2902845
Octa CDF	pg/L	ND	1.17	102	0.000300	0.000351		2902845
Total Tetra CDF	pg/L	ND	0.683	10.2				2902845
Total Penta CDF	pg/L	ND	0.628	10.2				2902845
Total Hexa CDF	pg/L	ND	0.471	10.2				2902845
Total Hepta CDF	pg/L	ND	0.520	10.2				2902845

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B290951
Report Date: 2012/07/09

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NV9583						
Sampling Date		2012/06/18						
COC Number		B 081676			**TOXIC EQUIVALENCY**		**# of**	
	Units	**BOTTOMSW-DENNY'S POND (5.0M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
TOTAL TOXIC EQUIVALENCY	pg/L					2.03		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	80						2902845
C13-1234678 HeptaCDF **	%	82						2902845
C13-123678 HexaCDD	%	81						2902845
C13-123678 HexaCDF	%	80						2902845
C13-12378 PentaCDD	%	91						2902845
C13-12378 PentaCDF	%	81						2902845
C13-2378 TetraCDD	%	80						2902845
C13-2378 TetraCDF	%	83						2902845
C13-OCDD	%	95						2902845

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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GENERAL COMMENTS

Sample NV9581-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample NV9582-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample NV9583-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

ATLANTIC VOC IN SOIL (SOIL)

Volatile Organic Compounds in Soil: WS#2889003 - Bromomethane and Chloroethane unavailable due to calibration non-conformance.

DIOXINS AND FURANS BY HRMS (SOIL)

Dioxins/Furans in Soil (EPS 1/RM/23):

* TEQ = 0.438 Max TEQ < 0.528

Results relate only to the items tested.

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Quality Assurance Report

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2886978	MJL	QC Standard	pH	2012/06/21		99	%	80 - 120
		RPD	pH	2012/06/21	1.1		%	25
2886979	MJL	Spiked Blank	Conductivity	2012/06/21		101	%	80 - 120
		Method Blank	Conductivity	2012/06/21	ND, RDL=1.0		uS/cm	
		RPD	Conductivity	2012/06/21	0.08		%	25
2886984	MJL	QC Standard	Turbidity	2012/06/21		105	%	80 - 120
		Method Blank	Turbidity	2012/06/21	ND, RDL=0.10		NTU	
		RPD	Turbidity	2012/06/21	8.5		%	25
2886996	DLB	Matrix Spike	Total Aluminum (Al)	2012/06/21		102	%	80 - 120
			Total Antimony (Sb)	2012/06/21		101	%	80 - 120
			Total Arsenic (As)	2012/06/21		96	%	80 - 120
			Total Barium (Ba)	2012/06/21		92	%	80 - 120
			Total Beryllium (Be)	2012/06/21		93	%	80 - 120
			Total Bismuth (Bi)	2012/06/21		92	%	80 - 120
			Total Boron (B)	2012/06/21		94	%	80 - 120
			Total Cadmium (Cd)	2012/06/21		96	%	80 - 120
			Total Calcium (Ca)	2012/06/21		96	%	80 - 120
			Total Chromium (Cr)	2012/06/21		95	%	80 - 120
			Total Cobalt (Co)	2012/06/21		100	%	80 - 120
			Total Copper (Cu)	2012/06/21		NC	%	80 - 120
			Total Iron (Fe)	2012/06/21		102	%	80 - 120
			Total Lead (Pb)	2012/06/21		94	%	80 - 120
			Total Magnesium (Mg)	2012/06/21		103	%	80 - 120
			Total Manganese (Mn)	2012/06/21		93	%	80 - 120
			Total Molybdenum (Mo)	2012/06/21		102	%	80 - 120
			Total Nickel (Ni)	2012/06/21		91	%	80 - 120
			Total Phosphorus (P)	2012/06/21		101	%	80 - 120
			Total Potassium (K)	2012/06/21		97	%	80 - 120
			Total Selenium (Se)	2012/06/21		95	%	80 - 120
			Total Silver (Ag)	2012/06/21		94	%	80 - 120
			Total Sodium (Na)	2012/06/21		NC	%	80 - 120
			Total Strontium (Sr)	2012/06/21		NC	%	80 - 120
			Total Thallium (Tl)	2012/06/21		95	%	80 - 120
			Total Tin (Sn)	2012/06/21		100	%	80 - 120
			Total Titanium (Ti)	2012/06/21		98	%	80 - 120
			Total Uranium (U)	2012/06/21		100	%	80 - 120
			Total Vanadium (V)	2012/06/21		99	%	80 - 120
			Total Zinc (Zn)	2012/06/21		NC	%	80 - 120
		Spiked Blank	Total Aluminum (Al)	2012/06/21		104	%	80 - 120
			Total Antimony (Sb)	2012/06/21		99	%	80 - 120
			Total Arsenic (As)	2012/06/21		95	%	80 - 120
			Total Barium (Ba)	2012/06/21		93	%	80 - 120
			Total Beryllium (Be)	2012/06/21		92	%	80 - 120
			Total Bismuth (Bi)	2012/06/21		99	%	80 - 120
			Total Boron (B)	2012/06/21		93	%	80 - 120
			Total Cadmium (Cd)	2012/06/21		96	%	80 - 120
			Total Calcium (Ca)	2012/06/21		100	%	80 - 120
			Total Chromium (Cr)	2012/06/21		96	%	80 - 120
			Total Cobalt (Co)	2012/06/21		101	%	80 - 120
			Total Copper (Cu)	2012/06/21		97	%	80 - 120
			Total Iron (Fe)	2012/06/21		134 (1)	%	80 - 120
			Total Lead (Pb)	2012/06/21		95	%	80 - 120
			Total Magnesium (Mg)	2012/06/21		104	%	80 - 120
			Total Manganese (Mn)	2012/06/21		95	%	80 - 120
			Total Molybdenum (Mo)	2012/06/21		99	%	80 - 120

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SNC-Lavalin Inc, Environment Division
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P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2886996	DLB	Spiked Blank	Total Nickel (Ni)	2012/06/21		95	%	80 - 120
			Total Phosphorus (P)	2012/06/21		100	%	80 - 120
			Total Potassium (K)	2012/06/21		100	%	80 - 120
			Total Selenium (Se)	2012/06/21		96	%	80 - 120
			Total Silver (Ag)	2012/06/21		95	%	80 - 120
			Total Sodium (Na)	2012/06/21		103	%	80 - 120
			Total Strontium (Sr)	2012/06/21		95	%	80 - 120
			Total Thallium (Tl)	2012/06/21		98	%	80 - 120
			Total Tin (Sn)	2012/06/21		99	%	80 - 120
			Total Titanium (Ti)	2012/06/21		98	%	80 - 120
			Total Uranium (U)	2012/06/21		100	%	80 - 120
			Total Vanadium (V)	2012/06/21		99	%	80 - 120
			Total Zinc (Zn)	2012/06/21		100	%	80 - 120
		Method Blank	Total Aluminum (Al)	2012/06/21	5.6, RDL=5.0		ug/L	
			Total Antimony (Sb)	2012/06/21	ND, RDL=1.0		ug/L	
			Total Arsenic (As)	2012/06/21	ND, RDL=1.0		ug/L	
			Total Barium (Ba)	2012/06/21	ND, RDL=1.0		ug/L	
			Total Beryllium (Be)	2012/06/21	ND, RDL=1.0		ug/L	
			Total Bismuth (Bi)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Boron (B)	2012/06/21	ND, RDL=50		ug/L	
			Total Cadmium (Cd)	2012/06/21	ND, RDL=0.017		ug/L	
			Total Calcium (Ca)	2012/06/21	ND, RDL=100		ug/L	
			Total Chromium (Cr)	2012/06/21	ND, RDL=1.0		ug/L	
			Total Cobalt (Co)	2012/06/21	ND, RDL=0.40		ug/L	
			Total Copper (Cu)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Iron (Fe)	2012/06/21	ND, RDL=50		ug/L	
			Total Lead (Pb)	2012/06/21	ND, RDL=0.50		ug/L	
			Total Magnesium (Mg)	2012/06/21	ND, RDL=100		ug/L	
			Total Manganese (Mn)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Molybdenum (Mo)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Nickel (Ni)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Phosphorus (P)	2012/06/21	ND, RDL=100		ug/L	
			Total Potassium (K)	2012/06/21	ND, RDL=100		ug/L	
			Total Selenium (Se)	2012/06/21	ND, RDL=1.0		ug/L	
			Total Silver (Ag)	2012/06/21	ND, RDL=0.10		ug/L	
			Total Sodium (Na)	2012/06/21	ND, RDL=100		ug/L	
			Total Strontium (Sr)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Thallium (Tl)	2012/06/21	ND, RDL=0.10		ug/L	
			Total Tin (Sn)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Titanium (Ti)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Uranium (U)	2012/06/21	ND, RDL=0.10		ug/L	
			Total Vanadium (V)	2012/06/21	ND, RDL=2.0		ug/L	
			Total Zinc (Zn)	2012/06/21	ND, RDL=5.0		ug/L	
		RPD	Total Aluminum (Al)	2012/06/25	NC		%	25
			Total Antimony (Sb)	2012/06/25	NC		%	25
			Total Arsenic (As)	2012/06/25	NC		%	25
			Total Barium (Ba)	2012/06/25	2.5		%	25
			Total Beryllium (Be)	2012/06/25	NC		%	25
			Total Bismuth (Bi)	2012/06/25	NC		%	25
			Total Boron (B)	2012/06/25	NC		%	25
			Total Cadmium (Cd)	2012/06/25	NC		%	25
			Total Calcium (Ca)	2012/06/25	2.3		%	25
			Total Chromium (Cr)	2012/06/25	NC		%	25
			Total Cobalt (Co)	2012/06/25	NC		%	25
			Total Copper (Cu)	2012/06/25	NC		%	25

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Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2886996	DLB	RPD	Total Iron (Fe)	2012/06/25	3.2		%	25
			Total Lead (Pb)	2012/06/25	NC		%	25
			Total Magnesium (Mg)	2012/06/25	3.4		%	25
			Total Manganese (Mn)	2012/06/25	3.7		%	25
			Total Molybdenum (Mo)	2012/06/25	NC		%	25
			Total Nickel (Ni)	2012/06/25	NC		%	25
			Total Phosphorus (P)	2012/06/25	NC		%	25
			Total Potassium (K)	2012/06/25	1.9		%	25
			Total Selenium (Se)	2012/06/25	NC		%	25
			Total Silver (Ag)	2012/06/25	NC		%	25
			Total Sodium (Na)	2012/06/25	3.7		%	25
			Total Strontium (Sr)	2012/06/25	1.9		%	25
			Total Thallium (Tl)	2012/06/25	NC		%	25
			Total Tin (Sn)	2012/06/25	NC		%	25
			Total Titanium (Ti)	2012/06/25	NC		%	25
			Total Uranium (U)	2012/06/25	5.6		%	25
			Total Vanadium (V)	2012/06/25	NC		%	25
			Total Zinc (Zn)	2012/06/25	NC		%	25
2887009	SMT	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2012/06/21		90	%	80 - 120
		QC Standard	Nitrogen (Ammonia Nitrogen)	2012/06/21		99	%	80 - 120
		Spiked Blank	Nitrogen (Ammonia Nitrogen)	2012/06/21		90	%	80 - 120
		Method Blank	Nitrogen (Ammonia Nitrogen)	2012/06/21	ND, RDL=0.050		mg/L	
		RPD	Nitrogen (Ammonia Nitrogen)	2012/06/21	NC		%	25
2887269	ASL	Matrix Spike	Isobutylbenzene - Volatile	2012/06/21		88	%	60 - 140
			Benzene	2012/06/21		100	%	60 - 140
			Toluene	2012/06/21		125	%	60 - 140
			Ethylbenzene	2012/06/21		124	%	60 - 140
			Xylene (Total)	2012/06/21		127	%	60 - 140
		Spiked Blank	Isobutylbenzene - Volatile	2012/06/21		93	%	60 - 140
			Benzene	2012/06/21		90	%	60 - 140
			Toluene	2012/06/21		106	%	60 - 140
			Ethylbenzene	2012/06/21		102	%	60 - 140
			Xylene (Total)	2012/06/21		103	%	60 - 140
		Method Blank	Isobutylbenzene - Volatile	2012/06/21		85	%	60 - 140
			Benzene	2012/06/21	ND, RDL=0.025		mg/kg	
			Toluene	2012/06/21	ND, RDL=0.025		mg/kg	
			Ethylbenzene	2012/06/21	ND, RDL=0.025		mg/kg	
			Xylene (Total)	2012/06/21	ND, RDL=0.050		mg/kg	
			C6 - C10 (less BTEX)	2012/06/21	ND, RDL=2.5		mg/kg	
		RPD	Benzene	2012/06/21	NC		%	50
			Toluene	2012/06/21	NC		%	50
			Ethylbenzene	2012/06/21	NC		%	50
			Xylene (Total)	2012/06/21	NC		%	50
			C6 - C10 (less BTEX)	2012/06/21	NC		%	50
2887280	KJO	Matrix Spike						
		[NV9584-01]	Decachlorobiphenyl	2012/06/22		82	%	30 - 130
			Total PCB	2012/06/22		80	%	70 - 130
		Spiked Blank	Decachlorobiphenyl	2012/06/22		85	%	30 - 130
			Total PCB	2012/06/22		96	%	70 - 130
		Method Blank	Decachlorobiphenyl	2012/06/22		81	%	30 - 130
			Total PCB	2012/06/22	ND, RDL=0.050		ug/g	
		RPD [NV9584-01]	Total PCB	2012/06/22	NC		%	50
2887366	KJO	Matrix Spike	Decachlorobiphenyl	2012/06/25		79	%	30 - 130
			Total PCB	2012/06/25		91	%	70 - 130
		Spiked Blank	Decachlorobiphenyl	2012/06/25		83	%	30 - 130

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Quality Assurance Report (Continued)

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2887366	KJO	Spiked Blank	Total PCB	2012/06/25		93	%	70 - 130
		Method Blank	Decachlorobiphenyl	2012/06/25		74	%	30 - 130
			Total PCB	2012/06/25	ND, RDL=0.050		ug/L	
		RPD [NV9581-03]	Total PCB	2012/06/25	NC		%	40
2887638	SHR	Matrix Spike	Isobutylbenzene - Extractable	2012/06/22		109	%	30 - 130
			n-Dotriacontane - Extractable	2012/06/22		130	%	30 - 130
			>C10-C16 Hydrocarbons	2012/06/22		NC	%	30 - 130
			>C16-C21 Hydrocarbons	2012/06/22		102	%	30 - 130
			>C21-<C32 Hydrocarbons	2012/06/22		105	%	30 - 130
		Spiked Blank	Isobutylbenzene - Extractable	2012/06/21		91	%	30 - 130
			n-Dotriacontane - Extractable	2012/06/21		95	%	30 - 130
			>C10-C16 Hydrocarbons	2012/06/21		76	%	30 - 130
			>C16-C21 Hydrocarbons	2012/06/21		86	%	30 - 130
			>C21-<C32 Hydrocarbons	2012/06/21		92	%	30 - 130
		Method Blank	Isobutylbenzene - Extractable	2012/06/21		90	%	30 - 130
			n-Dotriacontane - Extractable	2012/06/21		94	%	30 - 130
			>C10-C16 Hydrocarbons	2012/06/21	ND, RDL=10		mg/kg	
			>C16-C21 Hydrocarbons	2012/06/21	ND, RDL=10		mg/kg	
			>C21-<C32 Hydrocarbons	2012/06/21	ND, RDL=15		mg/kg	
		RPD	>C10-C16 Hydrocarbons	2012/06/22	11.8		%	50
			>C16-C21 Hydrocarbons	2012/06/22	NC		%	50
			>C21-<C32 Hydrocarbons	2012/06/22	NC		%	50
2888298	GTH	Matrix Spike						
		[NV9584-01]	D10-Anthracene	2012/06/22		89	%	30 - 130
			D14-Terphenyl (FS)	2012/06/22		99	%	30 - 130
			D8-Acenaphthylene	2012/06/22		86	%	30 - 130
			1-Methylnaphthalene	2012/06/22		78	%	30 - 130
			2-Methylnaphthalene	2012/06/22		85	%	30 - 130
			Acenaphthene	2012/06/22		83	%	30 - 130
			Acenaphthylene	2012/06/22		79	%	30 - 130
			Anthracene	2012/06/22		80	%	30 - 130
			Benzo(a)anthracene	2012/06/22		83	%	30 - 130
			Benzo(a)pyrene	2012/06/22		85	%	30 - 130
			Benzo(b)fluoranthene	2012/06/22		89	%	30 - 130
			Benzo(g,h,i)perylene	2012/06/22		82	%	30 - 130
			Benzo(j)fluoranthene	2012/06/22		88	%	30 - 130
			Benzo(k)fluoranthene	2012/06/22		86	%	30 - 130
			Chrysene	2012/06/22		85	%	30 - 130
			Dibenz(a,h)anthracene	2012/06/22		80	%	30 - 130
			Fluoranthene	2012/06/22		82	%	30 - 130
			Fluorene	2012/06/22		85	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2012/06/22		82	%	30 - 130
			Naphthalene	2012/06/22		84	%	30 - 130
			Perylene	2012/06/22		NC	%	30 - 130
			Phenanthrene	2012/06/22		90	%	30 - 130
			Pyrene	2012/06/22		87	%	30 - 130
		Spiked Blank	D10-Anthracene	2012/06/22		91	%	30 - 130
			D14-Terphenyl (FS)	2012/06/22		95	%	30 - 130
			D8-Acenaphthylene	2012/06/22		90	%	30 - 130
			1-Methylnaphthalene	2012/06/22		82	%	30 - 130
			2-Methylnaphthalene	2012/06/22		87	%	30 - 130
			Acenaphthene	2012/06/22		87	%	30 - 130
			Acenaphthylene	2012/06/22		82	%	30 - 130
			Anthracene	2012/06/22		74	%	30 - 130
			Benzo(a)anthracene	2012/06/22		79	%	30 - 130

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Quality Assurance Report (Continued)

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2888298	GTH	Spiked Blank	Benzo(a)pyrene	2012/06/22		87	%	30 - 130
			Benzo(b)fluoranthene	2012/06/22		89	%	30 - 130
			Benzo(g,h,i)perylene	2012/06/22		88	%	30 - 130
			Benzo(j)fluoranthene	2012/06/22		86	%	30 - 130
			Benzo(k)fluoranthene	2012/06/22		86	%	30 - 130
			Chrysene	2012/06/22		83	%	30 - 130
			Dibenz(a,h)anthracene	2012/06/22		82	%	30 - 130
			Fluoranthene	2012/06/22		79	%	30 - 130
			Fluorene	2012/06/22		88	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2012/06/22		85	%	30 - 130
			Naphthalene	2012/06/22		89	%	30 - 130
			Perylene	2012/06/22		89	%	30 - 130
			Phenanthrene	2012/06/22		91	%	30 - 130
			Pyrene	2012/06/22		83	%	30 - 130
		Method Blank	D10-Anthracene	2012/06/22		99	%	30 - 130
			D14-Terphenyl (FS)	2012/06/22		95	%	30 - 130
			D8-Acenaphthylene	2012/06/22		89	%	30 - 130
			1-Methylnaphthalene	2012/06/22	ND, RDL=0.010		mg/kg	
			2-Methylnaphthalene	2012/06/22	ND, RDL=0.010		mg/kg	
			Acenaphthene	2012/06/22	ND, RDL=0.010		mg/kg	
			Acenaphthylene	2012/06/22	ND, RDL=0.010		mg/kg	
			Anthracene	2012/06/22	ND, RDL=0.010		mg/kg	
			Benzo(a)anthracene	2012/06/22	ND, RDL=0.010		mg/kg	
			Benzo(a)pyrene	2012/06/22	ND, RDL=0.010		mg/kg	
			Benzo(b)fluoranthene	2012/06/22	ND, RDL=0.010		mg/kg	
			Benzo(g,h,i)perylene	2012/06/22	ND, RDL=0.010		mg/kg	
			Benzo(j)fluoranthene	2012/06/22	ND, RDL=0.010		mg/kg	
			Benzo(k)fluoranthene	2012/06/22	ND, RDL=0.010		mg/kg	
			Chrysene	2012/06/22	ND, RDL=0.010		mg/kg	
			Dibenz(a,h)anthracene	2012/06/22	ND, RDL=0.010		mg/kg	
			Fluoranthene	2012/06/22	ND, RDL=0.010		mg/kg	
			Fluorene	2012/06/22	ND, RDL=0.010		mg/kg	
			Indeno(1,2,3-cd)pyrene	2012/06/22	ND, RDL=0.010		mg/kg	
			Naphthalene	2012/06/22	ND, RDL=0.010		mg/kg	
			Perylene	2012/06/22	ND, RDL=0.010		mg/kg	
			Phenanthrene	2012/06/22	ND, RDL=0.010		mg/kg	
			Pyrene	2012/06/22	ND, RDL=0.010		mg/kg	
		RPD [NV9584-01]	1-Methylnaphthalene	2012/06/22	NC		%	50
			2-Methylnaphthalene	2012/06/22	NC		%	50
			Acenaphthene	2012/06/22	NC		%	50
			Acenaphthylene	2012/06/22	NC		%	50
			Anthracene	2012/06/22	NC		%	50
			Benzo(a)anthracene	2012/06/22	NC		%	50
			Benzo(a)pyrene	2012/06/22	NC		%	50
			Benzo(b)fluoranthene	2012/06/22	NC		%	50
			Benzo(g,h,i)perylene	2012/06/22	NC		%	50
			Benzo(j)fluoranthene	2012/06/22	NC		%	50
			Benzo(k)fluoranthene	2012/06/22	NC		%	50
			Chrysene	2012/06/22	NC		%	50
			Dibenz(a,h)anthracene	2012/06/22	NC		%	50
			Fluoranthene	2012/06/22	NC		%	50
			Fluorene	2012/06/22	NC		%	50
			Indeno(1,2,3-cd)pyrene	2012/06/22	NC		%	50
			Naphthalene	2012/06/22	NC		%	50
			Perylene	2012/06/22	6.4		%	50

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2888298	GTH	RPD [NV9584-01]	Phenanthrene	2012/06/22	NC		%	50
			Pyrene	2012/06/22	NC		%	50
2888419	JOA	Matrix Spike	Total Alkalinity (Total as CaCO3)	2012/06/25		NC	%	80 - 120
		QC Standard	Total Alkalinity (Total as CaCO3)	2012/06/25		104	%	80 - 120
		Spiked Blank	Total Alkalinity (Total as CaCO3)	2012/06/25		101	%	80 - 120
		Method Blank	Total Alkalinity (Total as CaCO3)	2012/06/25	ND, RDL=5.0		mg/L	
		RPD	Total Alkalinity (Total as CaCO3)	2012/06/25	2.5		%	25
2888426	SMT	Matrix Spike	Dissolved Chloride (Cl)	2012/06/26		103	%	80 - 120
		QC Standard	Dissolved Chloride (Cl)	2012/06/26		101	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2012/06/26		104	%	80 - 120
		Method Blank	Dissolved Chloride (Cl)	2012/06/26	ND, RDL=1.0		mg/L	
		RPD	Dissolved Chloride (Cl)	2012/06/26	1.5		%	25
2888430	SMT	Matrix Spike	Dissolved Sulphate (SO4)	2012/06/26		101	%	80 - 120
		QC Standard	Dissolved Sulphate (SO4)	2012/06/26		107	%	80 - 120
		Spiked Blank	Dissolved Sulphate (SO4)	2012/06/26		106	%	80 - 120
		Method Blank	Dissolved Sulphate (SO4)	2012/06/26	ND, RDL=2.0		mg/L	
		RPD	Dissolved Sulphate (SO4)	2012/06/26	NC		%	25
2888432	SMT	Matrix Spike	Reactive Silica (SiO2)	2012/06/26		96	%	80 - 120
		QC Standard	Reactive Silica (SiO2)	2012/06/26		97	%	75 - 125
		Spiked Blank	Reactive Silica (SiO2)	2012/06/26		95	%	80 - 120
		Method Blank	Reactive Silica (SiO2)	2012/06/26	ND, RDL=0.50		mg/L	
		RPD	Reactive Silica (SiO2)	2012/06/26	2.7		%	25
2888433	SMT	QC Standard	Colour	2012/06/26		100	%	80 - 120
		Method Blank	Colour	2012/06/26	ND, RDL=5.0		TCU	
		RPD	Colour	2012/06/26	NC		%	25
2888436	JOA	Matrix Spike	Orthophosphate (P)	2012/06/26		93	%	80 - 120
		QC Standard	Orthophosphate (P)	2012/06/26		102	%	80 - 120
		Spiked Blank	Orthophosphate (P)	2012/06/26		99	%	80 - 120
		Method Blank	Orthophosphate (P)	2012/06/26	ND, RDL=0.010		mg/L	
		RPD	Orthophosphate (P)	2012/06/26	NC		%	25
2888438	SMT	Matrix Spike	Nitrate + Nitrite	2012/06/26		102	%	80 - 120
		QC Standard	Nitrate + Nitrite	2012/06/26		105	%	80 - 120
		Spiked Blank	Nitrate + Nitrite	2012/06/26		104	%	80 - 120
		Method Blank	Nitrate + Nitrite	2012/06/26	ND, RDL=0.050		mg/L	
		RPD	Nitrate + Nitrite	2012/06/26	NC		%	25
2888440	SMT	Matrix Spike	Nitrite (N)	2012/06/26		100	%	80 - 120
		QC Standard	Nitrite (N)	2012/06/26		97	%	80 - 120
		Spiked Blank	Nitrite (N)	2012/06/26		103	%	80 - 120
		Method Blank	Nitrite (N)	2012/06/26	ND, RDL=0.010		mg/L	
		RPD	Nitrite (N)	2012/06/26	NC		%	25
2888616	DLB	Matrix Spike	Available Antimony (Sb)	2012/06/25		96	%	75 - 125
			Available Arsenic (As)	2012/06/25		98	%	75 - 125
			Available Barium (Ba)	2012/06/25		NC	%	75 - 125
			Available Beryllium (Be)	2012/06/25		98	%	75 - 125
			Available Bismuth (Bi)	2012/06/25		104	%	75 - 125
			Available Boron (B)	2012/06/25		NC	%	75 - 125
			Available Cadmium (Cd)	2012/06/25		98	%	75 - 125
			Available Chromium (Cr)	2012/06/25		NC	%	75 - 125
			Available Cobalt (Co)	2012/06/25		94	%	75 - 125
			Available Copper (Cu)	2012/06/25		NC	%	75 - 125
			Available Lead (Pb)	2012/06/25		NC	%	75 - 125
			Available Lithium (Li)	2012/06/25		107	%	75 - 125
			Available Manganese (Mn)	2012/06/25		NC	%	75 - 125
			Available Mercury (Hg)	2012/06/25		NC	%	75 - 125
			Available Molybdenum (Mo)	2012/06/25		98	%	75 - 125

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2888616	DLB	Matrix Spike	Available Nickel (Ni)	2012/06/25		NC	%	75 - 125
			Available Rubidium (Rb)	2012/06/25		100	%	75 - 125
			Available Selenium (Se)	2012/06/25		101	%	75 - 125
			Available Silver (Ag)	2012/06/25		98	%	75 - 125
			Available Strontium (Sr)	2012/06/25		NC	%	75 - 125
			Available Thallium (Tl)	2012/06/25		71 (2)	%	75 - 125
			Available Tin (Sn)	2012/06/25		NC	%	75 - 125
			Available Uranium (U)	2012/06/25		99	%	75 - 125
			Available Vanadium (V)	2012/06/25		NC	%	75 - 125
			Available Zinc (Zn)	2012/06/25		NC	%	75 - 125
		Spiked Blank	Available Antimony (Sb)	2012/06/25		109	%	75 - 125
			Available Arsenic (As)	2012/06/25		102	%	75 - 125
			Available Barium (Ba)	2012/06/25		99	%	75 - 125
			Available Beryllium (Be)	2012/06/25		99	%	75 - 125
			Available Bismuth (Bi)	2012/06/25		101	%	75 - 125
			Available Boron (B)	2012/06/25		106	%	75 - 125
			Available Cadmium (Cd)	2012/06/25		101	%	75 - 125
			Available Chromium (Cr)	2012/06/25		100	%	75 - 125
			Available Cobalt (Co)	2012/06/25		99	%	75 - 125
			Available Copper (Cu)	2012/06/25		98	%	75 - 125
			Available Lead (Pb)	2012/06/25		99	%	75 - 125
			Available Lithium (Li)	2012/06/25		107	%	75 - 125
			Available Manganese (Mn)	2012/06/25		100	%	75 - 125
			Available Mercury (Hg)	2012/06/25		102	%	75 - 125
			Available Molybdenum (Mo)	2012/06/25		101	%	75 - 125
			Available Nickel (Ni)	2012/06/25		100	%	75 - 125
			Available Rubidium (Rb)	2012/06/25		103	%	75 - 125
			Available Selenium (Se)	2012/06/25		103	%	75 - 125
			Available Silver (Ag)	2012/06/25		100	%	75 - 125
			Available Strontium (Sr)	2012/06/25		102	%	75 - 125
			Available Thallium (Tl)	2012/06/25		102	%	75 - 125
			Available Tin (Sn)	2012/06/25		108	%	75 - 125
			Available Uranium (U)	2012/06/25		99	%	75 - 125
			Available Vanadium (V)	2012/06/25		100	%	75 - 125
			Available Zinc (Zn)	2012/06/25		103	%	75 - 125
		Method Blank	Available Aluminum (Al)	2012/06/25	ND, RDL=10		mg/kg	
			Available Antimony (Sb)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Arsenic (As)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Barium (Ba)	2012/06/25	ND, RDL=5.0		mg/kg	
			Available Beryllium (Be)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Bismuth (Bi)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Boron (B)	2012/06/25	ND, RDL=5.0		mg/kg	
			Available Cadmium (Cd)	2012/06/25	ND, RDL=0.30		mg/kg	
			Available Chromium (Cr)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Cobalt (Co)	2012/06/25	ND, RDL=1.0		mg/kg	
			Available Copper (Cu)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Iron (Fe)	2012/06/25	ND, RDL=50		mg/kg	
			Available Lead (Pb)	2012/06/25	ND, RDL=0.50		mg/kg	
			Available Lithium (Li)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Manganese (Mn)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Mercury (Hg)	2012/06/25	ND, RDL=0.10		mg/kg	
			Available Molybdenum (Mo)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Nickel (Ni)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Rubidium (Rb)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Selenium (Se)	2012/06/25	ND, RDL=2.0		mg/kg	

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2888616	DLB	Method Blank	Available Silver (Ag)	2012/06/25	ND, RDL=0.50		mg/kg	
			Available Strontium (Sr)	2012/06/25	ND, RDL=5.0		mg/kg	
			Available Thallium (Tl)	2012/06/25	ND, RDL=0.10		mg/kg	
			Available Tin (Sn)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Uranium (U)	2012/06/25	ND, RDL=0.10		mg/kg	
			Available Vanadium (V)	2012/06/25	ND, RDL=2.0		mg/kg	
			Available Zinc (Zn)	2012/06/25	ND, RDL=5.0		mg/kg	
		RPD	Available Aluminum (Al)	2012/06/25	9.4		%	35
			Available Antimony (Sb)	2012/06/25	NC		%	35
			Available Arsenic (As)	2012/06/25	0.6		%	35
			Available Barium (Ba)	2012/06/25	3.4		%	35
			Available Beryllium (Be)	2012/06/25	NC		%	35
			Available Boron (B)	2012/06/25	1.0		%	35
			Available Cadmium (Cd)	2012/06/25	1.6		%	35
			Available Chromium (Cr)	2012/06/25	1.1		%	35
			Available Cobalt (Co)	2012/06/25	3.0		%	35
			Available Copper (Cu)	2012/06/25	3.6		%	35
			Available Iron (Fe)	2012/06/25	4.2		%	35
			Available Lead (Pb)	2012/06/25	0.7		%	35
			Available Manganese (Mn)	2012/06/25	0.1		%	35
			Available Mercury (Hg)	2012/06/25	6.3		%	35
			Available Nickel (Ni)	2012/06/25	2.3		%	35
			Available Strontium (Sr)	2012/06/25	2.6		%	35
			Available Tin (Sn)	2012/06/25	14.8		%	35
			Available Uranium (U)	2012/06/25	5.5		%	35
			Available Vanadium (V)	2012/06/25	28.5		%	35
			Available Zinc (Zn)	2012/06/25	0.2		%	35
2889003	ASL	Matrix Spike	4-Bromofluorobenzene	2012/06/25		86	%	60 - 140
			D4-1,2-Dichloroethane	2012/06/25		90	%	60 - 140
			D8-Toluene	2012/06/25		90	%	60 - 140
			1,1,1-Trichloroethane	2012/06/25		86	%	60 - 140
			1,1,2,2-Tetrachloroethane	2012/06/25		88	%	60 - 140
			1,1,2-Trichloroethane	2012/06/25		97	%	60 - 140
			1,1-Dichloroethane	2012/06/25		95	%	60 - 140
			1,1-Dichloroethylene	2012/06/25		93	%	60 - 140
			1,2-Dichlorobenzene	2012/06/25		97	%	60 - 140
			1,2-Dichloroethane	2012/06/25		101	%	60 - 140
			1,2-Dichloropropane	2012/06/25		95	%	60 - 140
			1,3-Dichlorobenzene	2012/06/25		97	%	60 - 140
			1,4-Dichlorobenzene	2012/06/25		97	%	60 - 140
			Benzene	2012/06/25		100	%	60 - 140
			Bromodichloromethane	2012/06/25		72	%	60 - 140
			Bromoform	2012/06/25		65	%	60 - 140
			Carbon Tetrachloride	2012/06/25		76	%	60 - 140
			Chlorobenzene	2012/06/25		99	%	60 - 140
			Chloroform	2012/06/25		97	%	60 - 140
			Chloromethane	2012/06/25		84	%	60 - 140
			cis-1,2-Dichloroethylene	2012/06/25		96	%	60 - 140
			cis-1,3-Dichloropropene	2012/06/25		84	%	60 - 140
			Dibromochloromethane	2012/06/25		63	%	60 - 140
			Ethylbenzene	2012/06/25		101	%	60 - 140
			Ethylene Dibromide	2012/06/25		92	%	60 - 140
			Methylene Chloride(Dichloromethane)	2012/06/25		95	%	60 - 140
			o-Xylene	2012/06/25		104	%	60 - 140
			p+m-Xylene	2012/06/25		100	%	60 - 140

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Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2889003	ASL	Matrix Spike	Styrene	2012/06/25		104	%	60 - 140
			Tetrachloroethylene	2012/06/25		103	%	60 - 140
			Toluene	2012/06/25		99	%	60 - 140
			trans-1,2-Dichloroethylene	2012/06/25		97	%	60 - 140
			trans-1,3-Dichloropropene	2012/06/25		80	%	60 - 140
			Trichloroethylene	2012/06/25		100	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2012/06/25		95	%	60 - 140
			Vinyl Chloride	2012/06/25		84	%	60 - 140
		Spiked Blank	4-Bromofluorobenzene	2012/06/25		96	%	60 - 140
			D4-1,2-Dichloroethane	2012/06/25		99	%	60 - 140
			D8-Toluene	2012/06/25		96	%	60 - 140
			1,1,1-Trichloroethane	2012/06/25		92	%	60 - 140
			1,1,2,2-Tetrachloroethane	2012/06/25		93	%	60 - 140
			1,1,2-Trichloroethane	2012/06/25		101	%	60 - 140
			1,1-Dichloroethane	2012/06/25		101	%	60 - 140
			1,1-Dichloroethylene	2012/06/25		100	%	60 - 140
			1,2-Dichlorobenzene	2012/06/25		101	%	60 - 140
			1,2-Dichloroethane	2012/06/25		104	%	60 - 140
			1,2-Dichloropropane	2012/06/25		100	%	60 - 140
			1,3-Dichlorobenzene	2012/06/25		101	%	60 - 140
			1,4-Dichlorobenzene	2012/06/25		103	%	60 - 140
			Benzene	2012/06/25		105	%	60 - 140
			Bromodichloromethane	2012/06/25		76	%	60 - 140
			Bromoform	2012/06/25		68	%	60 - 140
			Carbon Tetrachloride	2012/06/25		78	%	60 - 140
			Chlorobenzene	2012/06/25		104	%	60 - 140
			Chloroform	2012/06/25		102	%	60 - 140
			Chloromethane	2012/06/25		93	%	60 - 140
			cis-1,2-Dichloroethylene	2012/06/25		104	%	60 - 140
			cis-1,3-Dichloropropene	2012/06/25		89	%	60 - 140
			Dibromochloromethane	2012/06/25		65	%	60 - 140
			Ethylbenzene	2012/06/25		104	%	60 - 140
			Ethylene Dibromide	2012/06/25		99	%	60 - 140
			Methylene Chloride(Dichloromethane)	2012/06/25		88	%	60 - 140
			o-Xylene	2012/06/25		113	%	60 - 140
			p+m-Xylene	2012/06/25		111	%	60 - 140
			Styrene	2012/06/25		114	%	60 - 140
			Tetrachloroethylene	2012/06/25		105	%	60 - 140
			Toluene	2012/06/25		103	%	60 - 140
			trans-1,2-Dichloroethylene	2012/06/25		100	%	60 - 140
			trans-1,3-Dichloropropene	2012/06/25		85	%	60 - 140
			Trichloroethylene	2012/06/25		104	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2012/06/25		97	%	60 - 140
			Vinyl Chloride	2012/06/25		96	%	60 - 140
		Method Blank	4-Bromofluorobenzene	2012/06/25		97	%	60 - 140
			D4-1,2-Dichloroethane	2012/06/25		101	%	60 - 140
			D8-Toluene	2012/06/25		99	%	60 - 140
			1,1,1-Trichloroethane	2012/06/25	ND, RDL=25		ug/kg	
			1,1,2,2-Tetrachloroethane	2012/06/25	ND, RDL=25		ug/kg	
			1,1,2-Trichloroethane	2012/06/25	ND, RDL=25		ug/kg	
			1,1-Dichloroethane	2012/06/25	ND, RDL=25		ug/kg	
			1,1-Dichloroethylene	2012/06/25	ND, RDL=25		ug/kg	
			1,2-Dichlorobenzene	2012/06/25	ND, RDL=25		ug/kg	
			1,2-Dichloroethane	2012/06/25	ND, RDL=25		ug/kg	
			1,2-Dichloropropane	2012/06/25	ND, RDL=25		ug/kg	

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2889003	ASL	Method Blank	1,3-Dichlorobenzene	2012/06/25	ND, RDL=25		ug/kg	
			1,4-Dichlorobenzene	2012/06/25	ND, RDL=25		ug/kg	
			Benzene	2012/06/25	ND, RDL=25		ug/kg	
			Bromodichloromethane	2012/06/25	ND, RDL=25		ug/kg	
			Bromoform	2012/06/25	ND, RDL=25		ug/kg	
			Carbon Tetrachloride	2012/06/25	ND, RDL=25		ug/kg	
			Chlorobenzene	2012/06/25	ND, RDL=25		ug/kg	
			Chloroform	2012/06/25	ND, RDL=25		ug/kg	
			Chloromethane	2012/06/25	ND, RDL=25		ug/kg	
			cis-1,2-Dichloroethylene	2012/06/25	ND, RDL=25		ug/kg	
			cis-1,3-Dichloropropene	2012/06/25	ND, RDL=25		ug/kg	
			Dibromochloromethane	2012/06/25	ND, RDL=25		ug/kg	
			Ethylbenzene	2012/06/25	ND, RDL=25		ug/kg	
			Ethylene Dibromide	2012/06/25	ND, RDL=25		ug/kg	
			Methylene Chloride(Dichloromethane)	2012/06/25	ND, RDL=25		ug/kg	
			o-Xylene	2012/06/25	ND, RDL=25		ug/kg	
			p+m-Xylene	2012/06/25	ND, RDL=25		ug/kg	
			Styrene	2012/06/25	ND, RDL=25		ug/kg	
			Tetrachloroethylene	2012/06/25	ND, RDL=25		ug/kg	
			Toluene	2012/06/25	ND, RDL=25		ug/kg	
			trans-1,2-Dichloroethylene	2012/06/25	ND, RDL=25		ug/kg	
			trans-1,3-Dichloropropene	2012/06/25	ND, RDL=25		ug/kg	
			Trichloroethylene	2012/06/25	ND, RDL=25		ug/kg	
			Trichlorofluoromethane (FREON 11)	2012/06/25	ND, RDL=25		ug/kg	
			Vinyl Chloride	2012/06/25	ND, RDL=25		ug/kg	
		RPD	1,1,1-Trichloroethane	2012/06/25	NC		%	50
			1,1-Dichloroethylene	2012/06/25	NC		%	50
			Carbon Tetrachloride	2012/06/25	NC		%	50
			cis-1,2-Dichloroethylene	2012/06/25	NC		%	50
			Tetrachloroethylene	2012/06/25	NC		%	50
			trans-1,2-Dichloroethylene	2012/06/25	NC		%	50
			Trichloroethylene	2012/06/25	NC		%	50
			Vinyl Chloride	2012/06/25	NC		%	50
2890207	SCR	Matrix Spike	Total Organic Carbon (C)	2012/06/25		108	%	80 - 120
		QC Standard	Total Organic Carbon (C)	2012/06/25		103	%	80 - 120
		Spiked Blank	Total Organic Carbon (C)	2012/06/25		108	%	80 - 120
		Method Blank	Total Organic Carbon (C)	2012/06/25	ND, RDL=0.50		mg/L	
		RPD	Total Organic Carbon (C)	2012/06/25	NC		%	25
2890213	SCR	Matrix Spike	Total Organic Carbon (C)	2012/06/26		87	%	80 - 120
		Spiked Blank	Total Organic Carbon (C)	2012/06/26		87	%	80 - 120
		Method Blank	Total Organic Carbon (C)	2012/06/26	ND, RDL=0.50		mg/L	
		RPD	Total Organic Carbon (C)	2012/06/26	0.3		%	25
2893635	KKS	Spiked Blank	C13-1234678 HeptaCDD	2012/06/28		72	%	40 - 130
			C13-1234678 HeptaCDF	2012/06/28		75	%	40 - 130
			C13-123678 HexaCDD	2012/06/28		64	%	40 - 130
			C13-123678 HexaCDF	2012/06/28		62	%	40 - 130
			C13-12378 PentaCDD	2012/06/28		91	%	40 - 130
			C13-12378 PentaCDF	2012/06/28		73	%	40 - 130
			C13-2378 TetraCDD	2012/06/28		81	%	40 - 130
			C13-2378 TetraCDF	2012/06/28		70	%	40 - 130
			C13-OCDD	2012/06/28		83	%	40 - 130
			2,3,7,8-Tetra CDD	2012/06/28		98	%	80 - 140
			1,2,3,7,8-Penta CDD	2012/06/28		101	%	80 - 140
			1,2,3,4,7,8-Hexa CDD	2012/06/28		101	%	80 - 140
			1,2,3,6,7,8-Hexa CDD	2012/06/28		100	%	80 - 140

SNC-Lavalin Inc, Environment Division
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Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2893635	KKS	Spiked Blank	1,2,3,7,8,9-Hexa CDD	2012/06/28		114	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDD	2012/06/28		102	%	80 - 140
			Octa CDD	2012/06/28		99	%	80 - 140
			2,3,7,8-Tetra CDF	2012/06/28		99	%	80 - 140
			1,2,3,7,8-Penta CDF	2012/06/28		100	%	80 - 140
			2,3,4,7,8-Penta CDF	2012/06/28		110	%	80 - 140
			1,2,3,4,7,8-Hexa CDF	2012/06/28		102	%	80 - 140
			1,2,3,6,7,8-Hexa CDF	2012/06/28		99	%	80 - 140
			2,3,4,6,7,8-Hexa CDF	2012/06/28		99	%	80 - 140
			1,2,3,7,8,9-Hexa CDF	2012/06/28		104	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDF	2012/06/28		100	%	80 - 140
			1,2,3,4,7,8,9-Hepta CDF	2012/06/28		98	%	80 - 140
			Octa CDF	2012/06/28		100	%	80 - 140
		Method Blank	C13-1234678 HeptaCDD	2012/06/28		75	%	40 - 130
			C13-1234678 HeptaCDF	2012/06/28		80	%	40 - 130
			C13-123678 HexaCDD	2012/06/28		69	%	40 - 130
			C13-123678 HexaCDF	2012/06/28		66	%	40 - 130
			C13-12378 PentaCDD	2012/06/28		87	%	40 - 130
			C13-12378 PentaCDF	2012/06/28		70	%	40 - 130
			C13-2378 TetraCDD	2012/06/28		72	%	40 - 130
			C13-2378 TetraCDF	2012/06/28		65	%	40 - 130
			C13-OCDD	2012/06/28		89	%	40 - 130
			2,3,7,8-Tetra CDD	2012/06/28	ND, EDL=0.0603		pg/g	
			1,2,3,7,8-Penta CDD	2012/06/28	ND, EDL=0.0599		pg/g	
			1,2,3,4,7,8-Hexa CDD	2012/06/28	ND, EDL=0.0675		pg/g	
			1,2,3,6,7,8-Hexa CDD	2012/06/28	ND, EDL=0.0666		pg/g	
			1,2,3,7,8,9-Hexa CDD	2012/06/28	ND, EDL=0.0641		pg/g	
			1,2,3,4,6,7,8-Hepta CDD	2012/06/28	0.08, EDL=0.0527		pg/g	
			Octa CDD	2012/06/28	0.2, EDL=0.109		pg/g	
			Total Tetra CDD	2012/06/28	ND, EDL=0.0603		pg/g	
			Total Penta CDD	2012/06/28	ND, EDL=0.0599		pg/g	
			Total Hexa CDD	2012/06/28	ND, EDL=0.0660		pg/g	
			Total Hepta CDD	2012/06/28	0.08, EDL=0.0527		pg/g	
			2,3,7,8-Tetra CDF	2012/06/28	ND, EDL=0.0554		pg/g	
			1,2,3,7,8-Penta CDF	2012/06/28	ND, EDL=0.0658		pg/g	
			2,3,4,7,8-Penta CDF	2012/06/28	ND, EDL=0.0621		pg/g	
			1,2,3,4,7,8-Hexa CDF	2012/06/28	ND, EDL=0.0581		pg/g	
			1,2,3,6,7,8-Hexa CDF	2012/06/28	ND, EDL=0.0526		pg/g	
			2,3,4,6,7,8-Hexa CDF	2012/06/28	ND, EDL=0.0671		pg/g	
			1,2,3,7,8,9-Hexa CDF	2012/06/28	ND, EDL=0.0693		pg/g	
			1,2,3,4,6,7,8-Hepta CDF	2012/06/28	ND, EDL=0.0512		pg/g	
			1,2,3,4,7,8,9-Hepta CDF	2012/06/28	ND, EDL=0.0601		pg/g	
			Octa CDF	2012/06/28	ND, EDL=0.106		pg/g	
			Total Tetra CDF	2012/06/28	ND, EDL=0.0554		pg/g	
			Total Penta CDF	2012/06/28	ND, EDL=0.0639		pg/g	
			Total Hexa CDF	2012/06/28	ND, EDL=0.0610		pg/g	
			Total Hepta CDF	2012/06/28	ND, EDL=0.0553		pg/g	
2896933	KKS	Spiked Blank	C13-1234678 HeptaCDD	2012/07/05		91	%	40 - 130
			C13-1234678 HeptaCDF	2012/07/05		92	%	40 - 130
			C13-123678 HexaCDD	2012/07/05		82	%	40 - 130
			C13-123678 HexaCDF	2012/07/05		78	%	40 - 130
			C13-12378 PentaCDD	2012/07/05		93	%	40 - 130
			C13-12378 PentaCDF	2012/07/05		84	%	40 - 130
			C13-2378 TetraCDD	2012/07/05		90	%	40 - 130
			C13-2378 TetraCDF	2012/07/05		84	%	40 - 130

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Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB290951

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2896933	KKS	Spiked Blank	C13-OCDD	2012/07/05		124	%	40 - 130
			2,3,7,8-Tetra CDD	2012/07/05		104	%	80 - 140
			1,2,3,7,8-Penta CDD	2012/07/05		111	%	80 - 140
			1,2,3,4,7,8-Hexa CDD	2012/07/05		130	%	80 - 140
			1,2,3,6,7,8-Hexa CDD	2012/07/05		121	%	80 - 140
			1,2,3,7,8,9-Hexa CDD	2012/07/05		132	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDD	2012/07/05		99	%	80 - 140
			Octa CDD	2012/07/05		97	%	80 - 140
			2,3,7,8-Tetra CDF	2012/07/05		104	%	80 - 140
			1,2,3,7,8-Penta CDF	2012/07/05		108	%	80 - 140
			2,3,4,7,8-Penta CDF	2012/07/05		105	%	80 - 140
			1,2,3,4,7,8-Hexa CDF	2012/07/05		114	%	80 - 140
			1,2,3,6,7,8-Hexa CDF	2012/07/05		107	%	80 - 140
			2,3,4,6,7,8-Hexa CDF	2012/07/05		125	%	80 - 140
			1,2,3,7,8,9-Hexa CDF	2012/07/05		118	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDF	2012/07/05		93	%	80 - 140
			1,2,3,4,7,8,9-Hepta CDF	2012/07/05		92	%	80 - 140
			Octa CDF	2012/07/05		86	%	80 - 140
		Method Blank	C13-1234678 HeptaCDD	2012/07/05		88	%	40 - 130
			C13-1234678 HeptaCDF	2012/07/05		96	%	40 - 130
			C13-123678 HexaCDD	2012/07/05		79	%	40 - 130
			C13-123678 HexaCDF	2012/07/05		77	%	40 - 130
			C13-12378 PentaCDD	2012/07/05		90	%	40 - 130
			C13-12378 PentaCDF	2012/07/05		78	%	40 - 130
			C13-2378 TetraCDD	2012/07/05		80	%	40 - 130
			C13-2378 TetraCDF	2012/07/05		74	%	40 - 130
			C13-OCDD	2012/07/05		122	%	40 - 130
			2,3,7,8-Tetra CDD	2012/07/05	ND, EDL=0.576		pg/L	
			1,2,3,7,8-Penta CDD	2012/07/05	ND, EDL=0.655		pg/L	
			1,2,3,4,7,8-Hexa CDD	2012/07/05	ND, EDL=0.683		pg/L	
			1,2,3,6,7,8-Hexa CDD	2012/07/05	ND, EDL=0.674		pg/L	
			1,2,3,7,8,9-Hexa CDD	2012/07/05	ND, EDL=0.649		pg/L	
			1,2,3,4,6,7,8-Hepta CDD	2012/07/05	ND, EDL=0.648		pg/L	
			Octa CDD	2012/07/05	ND, EDL=1.07		pg/L	
			Total Tetra CDD	2012/07/05	ND, EDL=0.576		pg/L	
			Total Penta CDD	2012/07/05	ND, EDL=0.655		pg/L	
			Total Hexa CDD	2012/07/05	ND, EDL=0.810 (3)		pg/L	
			Total Hepta CDD	2012/07/05	ND, EDL=0.648		pg/L	
			2,3,7,8-Tetra CDF	2012/07/05	ND, EDL=0.570		pg/L	
			1,2,3,7,8-Penta CDF	2012/07/05	ND, EDL=0.700		pg/L	
			2,3,4,7,8-Penta CDF	2012/07/05	ND, EDL=0.661		pg/L	
			1,2,3,4,7,8-Hexa CDF	2012/07/05	ND, EDL=0.529		pg/L	
			1,2,3,6,7,8-Hexa CDF	2012/07/05	ND, EDL=0.480		pg/L	
			2,3,4,6,7,8-Hexa CDF	2012/07/05	ND, EDL=0.612		pg/L	
			1,2,3,7,8,9-Hexa CDF	2012/07/05	ND, EDL=0.632		pg/L	
			1,2,3,4,6,7,8-Hepta CDF	2012/07/05	ND, EDL=0.569		pg/L	
			1,2,3,4,7,8,9-Hepta CDF	2012/07/05	ND, EDL=0.667		pg/L	
			Octa CDF	2012/07/05	ND, EDL=1.09		pg/L	
			Total Tetra CDF	2012/07/05	ND, EDL=0.570		pg/L	
			Total Penta CDF	2012/07/05	ND, EDL=0.680		pg/L	
			Total Hexa CDF	2012/07/05	ND, EDL=0.556		pg/L	
			Total Hepta CDF	2012/07/05	ND, EDL=0.614		pg/L	
2902845	AGU	Spiked Blank	C13-1234678 HeptaCDD	2012/07/06		82	%	40 - 130
			C13-1234678 HeptaCDF	2012/07/06		85	%	40 - 130
			C13-123678 HexaCDD	2012/07/06		79	%	40 - 130

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Quality Assurance Report (Continued)

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2902845	AGU	Spiked Blank	C13-123678 HexaCDF	2012/07/06		77	%	40 - 130
			C13-12378 PentaCDD	2012/07/06		87	%	40 - 130
			C13-12378 PentaCDF	2012/07/06		79	%	40 - 130
			C13-2378 TetraCDD	2012/07/06		78	%	40 - 130
			C13-2378 TetraCDF	2012/07/06		79	%	40 - 130
			C13-OCDD	2012/07/06		99	%	40 - 130
			2,3,7,8-Tetra CDD	2012/07/06		100	%	80 - 140
			1,2,3,7,8-Penta CDD	2012/07/06		109	%	80 - 140
			1,2,3,4,7,8-Hexa CDD	2012/07/06		116	%	80 - 140
			1,2,3,6,7,8-Hexa CDD	2012/07/06		123	%	80 - 140
			1,2,3,7,8,9-Hexa CDD	2012/07/06		122	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDD	2012/07/06		119	%	80 - 140
			Octa CDD	2012/07/06		99	%	80 - 140
			2,3,7,8-Tetra CDF	2012/07/06		99	%	80 - 140
			1,2,3,7,8-Penta CDF	2012/07/06		105	%	80 - 140
			2,3,4,7,8-Penta CDF	2012/07/06		108	%	80 - 140
			1,2,3,4,7,8-Hexa CDF	2012/07/06		108	%	80 - 140
			1,2,3,6,7,8-Hexa CDF	2012/07/06		107	%	80 - 140
			2,3,4,6,7,8-Hexa CDF	2012/07/06		125	%	80 - 140
			1,2,3,7,8,9-Hexa CDF	2012/07/06		120	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDF	2012/07/06		96	%	80 - 140
			1,2,3,4,7,8,9-Hepta CDF	2012/07/06		102	%	80 - 140
			Octa CDF	2012/07/06		92	%	80 - 140
		Method Blank	C13-1234678 HeptaCDD	2012/07/06		82	%	40 - 130
			C13-1234678 HeptaCDF	2012/07/06		88	%	40 - 130
			C13-123678 HexaCDD	2012/07/06		77	%	40 - 130
			C13-123678 HexaCDF	2012/07/06		76	%	40 - 130
			C13-12378 PentaCDD	2012/07/06		86	%	40 - 130
			C13-12378 PentaCDF	2012/07/06		77	%	40 - 130
			C13-2378 TetraCDD	2012/07/06		70	%	40 - 130
			C13-2378 TetraCDF	2012/07/06		69	%	40 - 130
			C13-OCDD	2012/07/06		93	%	40 - 130
			2,3,7,8-Tetra CDD	2012/07/06	ND, EDL=0.604		pg/L	
			1,2,3,7,8-Penta CDD	2012/07/06	ND, EDL=0.683		pg/L	
			1,2,3,4,7,8-Hexa CDD	2012/07/06	ND, EDL=0.547		pg/L	
			1,2,3,6,7,8-Hexa CDD	2012/07/06	ND, EDL=0.578		pg/L	
			1,2,3,7,8,9-Hexa CDD	2012/07/06	ND, EDL=0.521		pg/L	
			1,2,3,4,6,7,8-Hepta CDD	2012/07/06	ND, EDL=0.547		pg/L	
			Octa CDD	2012/07/06	ND, EDL=1.31		pg/L	
			Total Tetra CDD	2012/07/06	ND, EDL=0.604		pg/L	
			Total Penta CDD	2012/07/06	ND, EDL=0.683		pg/L	
			Total Hexa CDD	2012/07/06	ND, EDL=0.548		pg/L	
			Total Hepta CDD	2012/07/06	ND, EDL=0.547		pg/L	
			2,3,7,8-Tetra CDF	2012/07/06	ND, EDL=0.514		pg/L	
			1,2,3,7,8-Penta CDF	2012/07/06	ND, EDL=0.688		pg/L	
			2,3,4,7,8-Penta CDF	2012/07/06	ND, EDL=0.655		pg/L	
			1,2,3,4,7,8-Hexa CDF	2012/07/06	ND, EDL=0.550		pg/L	
			1,2,3,6,7,8-Hexa CDF	2012/07/06	ND, EDL=0.543		pg/L	
			2,3,4,6,7,8-Hexa CDF	2012/07/06	ND, EDL=0.642		pg/L	
			1,2,3,7,8,9-Hexa CDF	2012/07/06	ND, EDL=0.667		pg/L	
			1,2,3,4,6,7,8-Hepta CDF	2012/07/06	ND, EDL=0.667		pg/L	
			1,2,3,4,7,8,9-Hepta CDF	2012/07/06	ND, EDL=0.827		pg/L	
			Octa CDF	2012/07/06	ND, EDL=1.20		pg/L	
			Total Tetra CDF	2012/07/06	ND, EDL=0.514		pg/L	
			Total Penta CDF	2012/07/06	ND, EDL=0.671		pg/L	

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Quality Assurance Report (Continued)

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2902845	AGU	Method Blank	Total Hexa CDF	2012/07/06	ND, EDL=0.596		pg/L	
			Total Hepta CDF	2012/07/06	ND, EDL=0.738		pg/L	

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 blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) Elevated recovery due to low level lab contamination. Minimal impact on data quality.
(2) Violation is not applicable. Parameter not requested in the sample.
(3) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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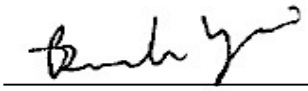
Validation Signature Page

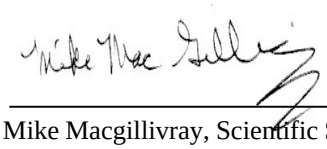
Maxxam Job #: B290951

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

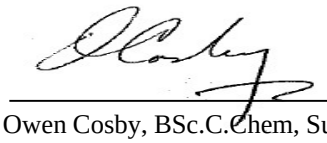
Alan Stewart, Scientific Specialist (Organics)



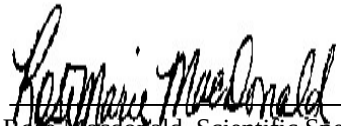
Branko Vrzic, A.SC.T., Senior Analyst, HRMS Services



Mike Macgillivray, Scientific Specialist (Inorganics)



Owen Cosby, BSc.C.Chem, Supervisor, HRMS Services



Rose Macdonald, Scientific Specialist (Organics)

==========

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Your P.O. #: 008959
Your Project #: 508907
Site Location: NEW HARBOUR
Your C.O.C. #: B 081678

Attention: Jason Green
SNC-Lavalin Inc, Environment Division
1133 Topsail Rd
Mount Pearl, NL
A1N 5G2

Report Date: 2012/07/06

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B296753
Received: 2012/06/28, 12:57

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (PIRI) (1,2)	1	2012/07/03	2012/07/04	ATL SOP-00197	Based on Atl. PIRI
Moisture	1	N/A	2012/07/04	ATL SOP-00196	MOE Handbook 1983
VPH in Soil (PIRI) (1)	1	2012/07/03	2012/07/03	ATL SOP 00199	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	1	2012/06/28	2012/07/04		Based on Atl. PIRI

Remarks:

Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Reported on a dry weight basis.
(2) Soils are reported on a dry weight basis unless otherwise specified.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Rob Whelan, Project Manager
Email: RWhelan@maxxam.ca
Phone# (709) 754-0203

==========

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Total cover pages: 1

Maxxam Job #: B296753
Report Date: 2012/07/06

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

ATLANTIC MUST IN SOIL (SOIL)

Maxxam ID		NY7578		
Sampling Date		2012/06/27		
COC Number		B 081678		
	Units	**Sed - Three Corner Pond**	**RDL**	**QC Batch**
Inorganics				
Moisture	%	89	1	2896724
Petroleum Hydrocarbons				
Benzene	mg/kg	ND	0.025	2896726
Toluene	mg/kg	ND	0.025	2896726
Ethylbenzene	mg/kg	ND	0.025	2896726
Xylene (Total)	mg/kg	ND	0.050	2896726
C6 - C10 (less BTEX)	mg/kg	ND	2.5	2896726
>C10-C16 Hydrocarbons	mg/kg	ND	10	2896730
>C16-C21 Hydrocarbons	mg/kg	ND	10	2896730
>C21-<C32 Hydrocarbons	mg/kg	140	15	2896730
Modified TPH (Tier1)	mg/kg	140	15	2893710
Reached Baseline at C32	mg/kg	No	N/A	2896730
Hydrocarbon Resemblance	mg/kg	SEECOMMENT (1)	N/A	2896730
Surrogate Recovery (%)				
Isobutylbenzene - Extractable	%	102		2896730
n-Dotriacontane - Extractable	%	108		2896730
Isobutylbenzene - Volatile	%	81		2896726

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) No resemblance to petroleum products in lube oil range.

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Maxxam Job #: B296753
Report Date: 2012/07/06

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

GENERAL COMMENTS

Results relate only to the items tested.

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report

Maxxam Job Number: ZB296753

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2896724	CKN	RPD	Moisture	2012/07/04	0		%	25
2896726	JHW	Spiked Blank	Isobutylbenzene - Volatile	2012/07/03		95	%	60 - 140
			Benzene	2012/07/03		81	%	60 - 140
			Toluene	2012/07/03		89	%	60 - 140
			Ethylbenzene	2012/07/03		90	%	60 - 140
			Xylene (Total)	2012/07/03		93	%	60 - 140
		Method Blank	Isobutylbenzene - Volatile	2012/07/03		104	%	60 - 140
			Benzene	2012/07/03	ND, RDL=0.025		mg/kg	
			Toluene	2012/07/03	ND, RDL=0.025		mg/kg	
			Ethylbenzene	2012/07/03	ND, RDL=0.025		mg/kg	
			Xylene (Total)	2012/07/03	ND, RDL=0.050		mg/kg	
			C6 - C10 (less BTEX)	2012/07/03	ND, RDL=2.5		mg/kg	
		RPD	Benzene	2012/07/03	NC		%	50
			Toluene	2012/07/03	NC		%	50
			Ethylbenzene	2012/07/03	NC		%	50
			Xylene (Total)	2012/07/03	NC		%	50
			C6 - C10 (less BTEX)	2012/07/03	NC		%	50
2896730	SPI	Matrix Spike	Isobutylbenzene - Extractable	2012/07/04		97	%	30 - 130
			n-Dotriacontane - Extractable	2012/07/04		105	%	30 - 130
			>C10-C16 Hydrocarbons	2012/07/04		90	%	30 - 130
			>C16-C21 Hydrocarbons	2012/07/04		93	%	30 - 130
			>C21-<C32 Hydrocarbons	2012/07/04		99	%	30 - 130
		Spiked Blank	Isobutylbenzene - Extractable	2012/07/04		102	%	30 - 130
			n-Dotriacontane - Extractable	2012/07/04		119	%	30 - 130
			>C10-C16 Hydrocarbons	2012/07/04		91	%	30 - 130
			>C16-C21 Hydrocarbons	2012/07/04		98	%	30 - 130
			>C21-<C32 Hydrocarbons	2012/07/04		101	%	30 - 130
		Method Blank	Isobutylbenzene - Extractable	2012/07/04		100	%	30 - 130
			n-Dotriacontane - Extractable	2012/07/04		108	%	30 - 130
			>C10-C16 Hydrocarbons	2012/07/04	ND, RDL=10		mg/kg	
			>C16-C21 Hydrocarbons	2012/07/04	ND, RDL=10		mg/kg	
			>C21-<C32 Hydrocarbons	2012/07/04	ND, RDL=15		mg/kg	
		RPD	>C10-C16 Hydrocarbons	2012/07/04	NC		%	50
			>C16-C21 Hydrocarbons	2012/07/04	NC		%	50
			>C21-<C32 Hydrocarbons	2012/07/04	NC		%	50

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.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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Validation Signature Page

Maxxam Job #: B296753

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Paula Chaplin

Paula Chaplin, Project Manager

==========

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Your P.O. #: 008959
Your Project #: 508907
Site Location: NEW HARBOUR
Your C.O.C. #: B081678

Attention: Jason Green
SNC-Lavalin Inc, Environment Division
1133 Topsail Rd
Mount Pearl, NL
A1N 5G2

Report Date: 2012/07/31

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B297232
Received: 2012/06/29, 09:00

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Dioxins/Furans in Soil (EPS 1/RM/23) (1,3)	1	2012/07/23	2012/07/26	BRL SOP-00410	EPS 1/RM/23 mod
2378TCDF Confirmation in Soil (1)	1	N/A	2012/07/27	BRL SOP-00406	EPA 8290 mod.
Metals Solid Avail. Unified MS - Nper (2)	1	2012/07/04	2012/07/05	ATL SOP 00024	Based on EPA6020A
Moisture (2)	1	N/A	2012/06/29	ATL SOP 00001	MOE Handbook 1983
PAH Compounds by GCMS (SIM) (2,4)	1	2012/07/03	2012/07/03	ATL SOP 00102	Based on EPA8270C
PCBs in soil by GC/ECD (2,4)	1	2012/07/04	2012/07/05	ATL SOP 00106	Based on EPA8082
Volatile Organic Compounds in Soil (2)	1	2012/06/29	2012/07/05	ATL SOP 00123	Based on 8260B mod

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide (2)	3	N/A	2012/07/04	CAM SOP-00102	APHA 4500-CO2 D
Alkalinity (2)	3	N/A	2012/07/05	ATL SOP 00013	Based on EPA310.2
Chloride (2)	3	N/A	2012/07/06	ATL SOP 00014	Based on SM4500-Cl-
Colour (2)	3	N/A	2012/07/06	ATL SOP 00020	Based on SM2120C
Dioxins/Furans in Water (EPS 1/RM/23) (1,5)	3	2012/07/13	2012/07/19	BRL SOP-00410	EPS 1/RM/23 mod
Conductance - water (2)	3	N/A	2012/07/03	ATL SOP 00004/00006	Based on SM2510B
Hardness (calculated as CaCO3) (2)	3	N/A	2012/07/05	ATL SOP 00048	Based on SM2340B
Metals Water Total MS (2)	3	2012/07/03	2012/07/04	ATL SOP 00059	Based on EPA6020A
Ion Balance (% Difference) (2)	3	N/A	2012/07/06		
Anion and Cation Sum (2)	3	N/A	2012/07/06		
Nitrogen Ammonia - water (2)	3	N/A	2012/07/04	ATL SOP 00015	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite (2)	3	N/A	2012/07/05	ATL SOP 00016	Based on USGS - Enz.
Nitrogen - Nitrite (2)	3	N/A	2012/07/06	ATL SOP 00017	Based on SM4500-NO2B
Nitrogen - Nitrate (as N) (2)	3	N/A	2012/07/06	ATL SOP 00018	Based on ASTMD3867
PCBs in water by GC/ECD (2)	3	2012/07/04	2012/07/06	ATL SOP 00107	Based on EPA8082
pH (2)	3	N/A	2012/07/03	ATL SOP 00003	Based on SM4500H+B
Phosphorus - ortho (2)	3	N/A	2012/07/05	ATL SOP 00021	Based on USEPA 365.1
Sat. pH and Langelier Index (@ 20C) (2)	3	N/A	2012/07/06		
Sat. pH and Langelier Index (@ 4C) (2)	3	N/A	2012/07/06		
Reactive Silica (2)	3	N/A	2012/07/05	ATL SOP 00022	Based on EPA 366.0
Sulphate (2)	3	N/A	2012/07/05	ATL SOP 00023	Based on EPA 375.4
Total Dissolved Solids (TDS calc) (2)	3	N/A	2012/07/06		
Organic carbon - Total (TOC) (2)	3	N/A	2012/07/05	ATL SOP 00037	Based on SM5310C
Turbidity (2)	3	N/A	2012/07/03	ATL SOP 00011	based on EPA 180.1

../2

Your P.O. #: 008959
Your Project #: 508907
Site Location: NEW HARBOUR
Your C.O.C. #: B081678

Attention: Jason Green
SNC-Lavalin Inc, Environment Division
1133 Topsail Rd
Mount Pearl, NL
A1N 5G2

Report Date: 2012/07/31

CERTIFICATE OF ANALYSIS

Remarks:

Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Analytics Mississauga
(2) This test was performed by Bedford
(3) Soils are reported on a dry weight basis unless otherwise specified.

Confirmatory runs for 2,3,7,8-TCDF are performed only if the primary result is greater than the RDL.
(4) Soils are reported on a dry weight basis unless otherwise specified.
(5) Confirmatory runs for 2,3,7,8-TCDF are performed only if the primary result is greater than the RDL.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Michelle Hill, Project Manager
Email: MHill@maxxam.ca
Phone# (902) 420-0203 Ext:289

==========

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Total cover pages: 2

Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		NY9668	NY9669		
Sampling Date		2012/06/27	2012/06/27		
	Units	**SW-THREE CORNER POND (0-0.15M)**	**MIDSW-THREE CORNER POND (0.5M)**	**RDL**	**QC Batch**
Calculated Parameters					
Anion Sum	me/L	0.710	0.700	N/A	2894930
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	8.5	8.3	1.0	2894926
Calculated TDS	mg/L	41.0	42.0	1.0	2894935
Carb. Alkalinity (calc. as CaCO3)	mg/L	ND	ND	1.0	2894926
Cation Sum	me/L	0.730	0.760	N/A	2894930
Hardness (CaCO3)	mg/L	12	13	1.0	2894928
Ion Balance (% Difference)	%	1.39	4.11	N/A	2894929
Langelier Index (@ 20C)	N/A	-2.77	-2.83		2894933
Langelier Index (@ 4C)	N/A	-3.02	-3.08		2894934
Nitrate (N)	mg/L	ND	ND	0.050	2894931
Saturation pH (@ 20C)	N/A	9.83	9.83		2894933
Saturation pH (@ 4C)	N/A	10.1	10.1		2894934
Inorganics					
Total Alkalinity (Total as CaCO3)	mg/L	8.5	8.3	5.0	2898720
Dissolved Chloride (Cl)	mg/L	16	15	1.0	2898721
Colour	TCU	36	35	5.0	2898727
Nitrate + Nitrite	mg/L	ND	ND	0.050	2898729
Nitrite (N)	mg/L	ND	ND	0.010	2898736
Nitrogen (Ammonia Nitrogen)	mg/L	ND	ND	0.050	2897167
Total Organic Carbon (C)	mg/L	5.9	6.0	0.50	2899560
Orthophosphate (P)	mg/L	ND	ND	0.010	2898728
pH	pH	7.06	7.00	N/A	2897075
Reactive Silica (SiO2)	mg/L	ND	ND	0.50	2898725
Dissolved Sulphate (SO4)	mg/L	4.8	4.9	2.0	2898715
Turbidity	NTU	0.52	2.0	0.10	2896714
Conductivity	uS/cm	81	80	1.0	2897080
Metals					
Total Aluminum (Al)	ug/L	98.9	247	5.0	2897205
Total Antimony (Sb)	ug/L	ND	ND	1.0	2897205

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		NY9668	NY9669		
Sampling Date		2012/06/27	2012/06/27		
	Units	**SW-THREE CORNER POND (0-0.15M)**	**MIDSW-THREE CORNER POND (0.5M)**	**RDL**	**QC Batch**
Total Arsenic (As)	ug/L	ND	ND	1.0	2897205
Total Barium (Ba)	ug/L	1.5	3.3	1.0	2897205
Total Beryllium (Be)	ug/L	ND	ND	1.0	2897205
Total Bismuth (Bi)	ug/L	ND	ND	2.0	2897205
Total Boron (B)	ug/L	ND	ND	50	2897205
Total Cadmium (Cd)	ug/L	ND	0.018	0.017	2897205
Total Calcium (Ca)	ug/L	3480	3580	100	2897205
Total Chromium (Cr)	ug/L	ND	ND	1.0	2897205
Total Cobalt (Co)	ug/L	ND	1.02	0.40	2897205
Total Copper (Cu)	ug/L	5.1	ND	2.0	2897205
Total Iron (Fe)	ug/L	230	625	50	2897205
Total Lead (Pb)	ug/L	ND	0.56	0.50	2897205
Total Magnesium (Mg)	ug/L	902	921	100	2897205
Total Manganese (Mn)	ug/L	136	560	2.0	2897205
Total Molybdenum (Mo)	ug/L	ND	ND	2.0	2897205
Total Nickel (Ni)	ug/L	ND	ND	2.0	2897205
Total Phosphorus (P)	ug/L	ND	ND	100	2897205
Total Potassium (K)	ug/L	624	652	100	2897205
Total Selenium (Se)	ug/L	ND	ND	1.0	2897205
Total Silver (Ag)	ug/L	ND	ND	0.10	2897205
Total Sodium (Na)	ug/L	10400	10600	100	2897205
Total Strontium (Sr)	ug/L	12.5	12.8	2.0	2897205
Total Thallium (Tl)	ug/L	ND	ND	0.10	2897205
Total Tin (Sn)	ug/L	ND	ND	2.0	2897205
Total Titanium (Ti)	ug/L	3.1	6.5	2.0	2897205
Total Uranium (U)	ug/L	ND	ND	0.10	2897205
Total Vanadium (V)	ug/L	ND	ND	2.0	2897205
Total Zinc (Zn)	ug/L	ND	5.3	5.0	2897205

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		NY9670		
Sampling Date		2012/06/27		
	Units	**BOTTOMSW-THREE CORNER POND (1.0M)**	**RDL**	**QC Batch**
Calculated Parameters				
Anion Sum	me/L	0.700	N/A	2894930
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	8.1	1.0	2894926
Calculated TDS	mg/L	41.0	1.0	2894935
Carb. Alkalinity (calc. as CaCO3)	mg/L	ND	1.0	2894926
Cation Sum	me/L	0.710	N/A	2894930
Hardness (CaCO3)	mg/L	12	1.0	2894928
Ion Balance (% Difference)	%	0.710	N/A	2894929
Langelier Index (@ 20C)	N/A	-2.86		2894933
Langelier Index (@ 4C)	N/A	-3.11		2894934
Nitrate (N)	mg/L	ND	0.050	2894931
Saturation pH (@ 20C)	N/A	9.86		2894933
Saturation pH (@ 4C)	N/A	10.1		2894934
Inorganics				
Total Alkalinity (Total as CaCO3)	mg/L	8.2	5.0	2898720
Dissolved Chloride (Cl)	mg/L	16	1.0	2898721
Colour	TCU	35	5.0	2898727
Nitrate + Nitrite	mg/L	ND	0.050	2898729
Nitrite (N)	mg/L	ND	0.010	2898736
Nitrogen (Ammonia Nitrogen)	mg/L	ND	0.050	2897167
Total Organic Carbon (C)	mg/L	6.1	0.50	2899560
Orthophosphate (P)	mg/L	ND	0.010	2898728
pH	pH	7.00	N/A	2897075
Reactive Silica (SiO2)	mg/L	ND	0.50	2898725
Dissolved Sulphate (SO4)	mg/L	4.8	2.0	2898715
Turbidity	NTU	1.4	0.10	2896714
Conductivity	uS/cm	80	1.0	2897080
Metals				
Total Aluminum (Al)	ug/L	182	5.0	2897205
Total Antimony (Sb)	ug/L	ND	1.0	2897205
Total Arsenic (As)	ug/L	ND	1.0	2897205

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		NY9670		
Sampling Date		2012/06/27		
	Units	**BOTTOMSW-THREE CORNER POND (1.0M)**	**RDL**	**QC Batch**
Total Barium (Ba)	ug/L	2.1	1.0	2897205
Total Beryllium (Be)	ug/L	ND	1.0	2897205
Total Bismuth (Bi)	ug/L	ND	2.0	2897205
Total Boron (B)	ug/L	ND	50	2897205
Total Cadmium (Cd)	ug/L	ND	0.017	2897205
Total Calcium (Ca)	ug/L	3380	100	2897205
Total Chromium (Cr)	ug/L	ND	1.0	2897205
Total Cobalt (Co)	ug/L	0.56	0.40	2897205
Total Copper (Cu)	ug/L	ND	2.0	2897205
Total Iron (Fe)	ug/L	514	50	2897205
Total Lead (Pb)	ug/L	ND	0.50	2897205
Total Magnesium (Mg)	ug/L	864	100	2897205
Total Manganese (Mn)	ug/L	328	2.0	2897205
Total Molybdenum (Mo)	ug/L	ND	2.0	2897205
Total Nickel (Ni)	ug/L	ND	2.0	2897205
Total Phosphorus (P)	ug/L	ND	100	2897205
Total Potassium (K)	ug/L	585	100	2897205
Total Selenium (Se)	ug/L	ND	1.0	2897205
Total Silver (Ag)	ug/L	ND	0.10	2897205
Total Sodium (Na)	ug/L	10100	100	2897205
Total Strontium (Sr)	ug/L	12.1	2.0	2897205
Total Thallium (Tl)	ug/L	ND	0.10	2897205
Total Tin (Sn)	ug/L	ND	2.0	2897205
Total Titanium (Ti)	ug/L	5.2	2.0	2897205
Total Uranium (U)	ug/L	ND	0.10	2897205
Total Vanadium (V)	ug/L	ND	2.0	2897205
Total Zinc (Zn)	ug/L	6.8	5.0	2897205

ND = Not detected
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QC Batch = Quality Control Batch

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ATLANTIC VOC IN SOIL (SOIL)

Maxxam ID		NY9671	NY9671		
Sampling Date		2012/06/27	2012/06/27		
	Units	**SED-THREE CORNER POND**	**SED-THREE CORNER POND Lab-Dup**	**RDL**	**QC Batch**
Volatile Organics					
1,1,1-Trichloroethane	ug/kg	ND	ND	25	2898159
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND	25	2898159
1,1,2-Trichloroethane	ug/kg	ND	ND	25	2898159
1,1-Dichloroethane	ug/kg	ND	ND	25	2898159
1,1-Dichloroethylene	ug/kg	ND	ND	25	2898159
1,2-Dichlorobenzene	ug/kg	ND	ND	25	2898159
1,2-Dichloroethane	ug/kg	ND	ND	25	2898159
1,2-Dichloropropane	ug/kg	ND	ND	25	2898159
1,3-Dichlorobenzene	ug/kg	ND	ND	25	2898159
1,4-Dichlorobenzene	ug/kg	ND	ND	25	2898159
Benzene	ug/kg	ND	ND	25	2898159
Bromodichloromethane	ug/kg	ND	ND	25	2898159
Bromoform	ug/kg	ND	ND	25	2898159
Carbon Tetrachloride	ug/kg	ND	ND	25	2898159
Chlorobenzene	ug/kg	ND	ND	25	2898159
Chloroform	ug/kg	ND	ND	25	2898159
Chloromethane	ug/kg	ND	ND	25	2898159
cis-1,2-Dichloroethylene	ug/kg	ND	ND	25	2898159
cis-1,3-Dichloropropene	ug/kg	ND	ND	25	2898159
Dibromochloromethane	ug/kg	ND	ND	25	2898159
Ethylbenzene	ug/kg	ND	ND	25	2898159
Ethylene Dibromide	ug/kg	ND	ND	25	2898159
Methylene Chloride(Dichloromethane)	ug/kg	ND	ND	25	2898159
o-Xylene	ug/kg	ND	ND	25	2898159
p+m-Xylene	ug/kg	ND	ND	25	2898159
Styrene	ug/kg	ND	ND	25	2898159
Tetrachloroethylene	ug/kg	ND	ND	25	2898159
Toluene	ug/kg	ND	ND	25	2898159
trans-1,2-Dichloroethylene	ug/kg	ND	ND	25	2898159

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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SNC-Lavalin Inc, Environment Division
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Your P.O. #: 008959
Sampler Initials: JG

ATLANTIC VOC IN SOIL (SOIL)

Maxxam ID		NY9671	NY9671		
Sampling Date		2012/06/27	2012/06/27		
	Units	**SED-THREE CORNER POND**	**SED-THREE CORNER POND Lab-Dup**	**RDL**	**QC Batch**
trans-1,3-Dichloropropene	ug/kg	ND	ND	25	2898159
Trichloroethylene	ug/kg	ND	ND	25	2898159
Trichlorofluoromethane (FREON 11)	ug/kg	ND	ND	25	2898159
Vinyl Chloride	ug/kg	ND	ND	25	2898159
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	89	89		2898159
D4-1,2-Dichloroethane	%	98	95		2898159
D8-Toluene	%	91	94		2898159

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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RESULTS OF ANALYSES OF SOIL

Maxxam ID		NY9671		
Sampling Date		2012/06/27		
	Units	**SED-THREE CORNER POND**	**RDL**	**QC Batch**
Inorganics				
Moisture	%	91	1	2895598

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		NY9671		
Sampling Date		2012/06/27		
	Units	**SED-THREE CORNER POND**	**RDL**	**QC Batch**
Metals				
Available Aluminum (Al)	mg/kg	9400	10	2898196
Available Antimony (Sb)	mg/kg	ND	2.0	2898196
Available Arsenic (As)	mg/kg	17	2.0	2898196
Available Barium (Ba)	mg/kg	72	5.0	2898196
Available Beryllium (Be)	mg/kg	ND	2.0	2898196
Available Bismuth (Bi)	mg/kg	ND	2.0	2898196
Available Boron (B)	mg/kg	ND	5.0	2898196
Available Cadmium (Cd)	mg/kg	0.52	0.30	2898196
Available Chromium (Cr)	mg/kg	4.7	2.0	2898196
Available Cobalt (Co)	mg/kg	71	1.0	2898196
Available Copper (Cu)	mg/kg	15	2.0	2898196
Available Iron (Fe)	mg/kg	28000	50	2898196
Available Lead (Pb)	mg/kg	21	0.50	2898196
Available Lithium (Li)	mg/kg	ND	2.0	2898196
Available Manganese (Mn)	mg/kg	15000	2.0	2898196
Available Mercury (Hg)	mg/kg	0.18	0.10	2898196
Available Molybdenum (Mo)	mg/kg	2.6	2.0	2898196
Available Nickel (Ni)	mg/kg	7.4	2.0	2898196
Available Rubidium (Rb)	mg/kg	ND	2.0	2898196
Available Selenium (Se)	mg/kg	ND	2.0	2898196
Available Silver (Ag)	mg/kg	ND	0.50	2898196
Available Strontium (Sr)	mg/kg	14	5.0	2898196
Available Thallium (Tl)	mg/kg	ND	0.10	2898196
Available Tin (Sn)	mg/kg	ND	2.0	2898196
Available Uranium (U)	mg/kg	1.0	0.10	2898196
Available Vanadium (V)	mg/kg	18	2.0	2898196
Available Zinc (Zn)	mg/kg	64	5.0	2898196

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Sampler Initials: JG

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		NY9671		
Sampling Date		2012/06/27		
	Units	**SED-THREE CORNER POND**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons				
1-Methylnaphthalene	mg/kg	ND	0.010	2896736
2-Methylnaphthalene	mg/kg	ND	0.010	2896736
Acenaphthene	mg/kg	ND	0.010	2896736
Acenaphthylene	mg/kg	ND	0.010	2896736
Anthracene	mg/kg	ND	0.010	2896736
Benzo(a)anthracene	mg/kg	ND	0.010	2896736
Benzo(a)pyrene	mg/kg	ND	0.010	2896736
Benzo(b)fluoranthene	mg/kg	ND	0.010	2896736
Benzo(g,h,i)perylene	mg/kg	ND	0.010	2896736
Benzo(j)fluoranthene	mg/kg	ND	0.010	2896736
Benzo(k)fluoranthene	mg/kg	ND	0.010	2896736
Chrysene	mg/kg	ND	0.010	2896736
Dibenz(a,h)anthracene	mg/kg	ND	0.010	2896736
Fluoranthene	mg/kg	ND	0.010	2896736
Fluorene	mg/kg	ND	0.010	2896736
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.010	2896736
Naphthalene	mg/kg	ND	0.010	2896736
Perylene	mg/kg	ND	0.010	2896736
Phenanthrene	mg/kg	ND	0.010	2896736
Pyrene	mg/kg	ND	0.010	2896736
Surrogate Recovery (%)				
D10-Anthracene	%	88		2896736
D14-Terphenyl (FS)	%	93		2896736
D8-Acenaphthylene	%	86		2896736

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		NY9671		
Sampling Date		2012/06/27		
	Units	**SED-THREE CORNER POND**	**RDL**	**QC Batch**
PCBs				
Total PCB	ug/g	ND	0.050	2898226
Surrogate Recovery (%)				
Decachlorobiphenyl	%	97		2898226

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

DIOXINS AND FURANS BY HRMS (SOIL)

Maxxam ID		NY9671						
Sampling Date		2012/06/27			TOXIC EQUIVALENCY		# of	
	Units	SED-THREE CORNER POND	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/g	ND	0.0854	1.57	1.00	0.0854		2918550
1,2,3,7,8-Penta CDD	pg/g	0.24	0.120	1.57	1.00	0.240		2918550
1,2,3,4,7,8-Hexa CDD	pg/g	0.43	0.0840	1.57	0.100	0.0430		2918550
1,2,3,6,7,8-Hexa CDD	pg/g	0.71	0.0887	1.57	0.100	0.0710		2918550
1,2,3,7,8,9-Hexa CDD	pg/g	0.86	0.0799	1.57	0.100	0.0860		2918550
1,2,3,4,6,7,8-Hepta CDD	pg/g	9.05	0.0963	1.57	0.0100	0.0905		2918550
Octa CDD	pg/g	35.9	0.166	15.7	0.000300	0.0108		2918550
Total Tetra CDD	pg/g	18.0	0.0854	1.57				2918550
Total Penta CDD	pg/g	6.47	0.120	1.57				2918550
Total Hexa CDD	pg/g	12.5	0.0840	1.57				2918550
Total Hepta CDD	pg/g	18.9	0.0963	1.57				2918550
2,3,7,8-Tetra CDF **	pg/g	2.99	0.0823	1.57	0.100	0.299		2918550
1,2,3,7,8-Penta CDF	pg/g	0.73	0.0895	1.57	0.0300	0.0219		2918550
2,3,4,7,8-Penta CDF	pg/g	1.18	0.0852	1.57	0.300	0.354		2918550
1,2,3,4,7,8-Hexa CDF	pg/g	1.15	0.0895	1.57	0.100	0.115		2918550
1,2,3,6,7,8-Hexa CDF	pg/g	0.98	0.0883	1.57	0.100	0.0980		2918550
2,3,4,6,7,8-Hexa CDF	pg/g	1.18	0.104	1.57	0.100	0.118		2918550
1,2,3,7,8,9-Hexa CDF	pg/g	ND	0.108	1.57	0.100	0.0108		2918550
1,2,3,4,6,7,8-Hepta CDF	pg/g	4.52	0.0893	1.57	0.0100	0.0452		2918550
1,2,3,4,7,8,9-Hepta CDF	pg/g	0.46	0.111	1.57	0.0100	0.00460		2918550
Octa CDF	pg/g	3.1	0.169	15.7	0.000300	0.000930		2918550
Total Tetra CDF	pg/g	168	0.0823	1.57				2918550
Total Penta CDF	pg/g	22.5	0.0873	1.57				2918550
Total Hexa CDF	pg/g	12.0	0.0968	1.57				2918550
Total Hepta CDF	pg/g	6.86	0.0989	1.57				2918550

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

DIOXINS AND FURANS BY HRMS (SOIL)

Maxxam ID		NY9671						
Sampling Date		2012/06/27			**TOXIC EQUIVALENCY**		**# of**	
	Units	**SED-THREE CORNER POND**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
TCDF Confirmation								
Confirmation 2,3,7,8-Tetra CDF **	pg/g	1.8	0.13	1.6	0.100	0.180		2923223
TOTAL TOXIC EQUIVALENCY	pg/g					1.58		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	61						2918550
C13-1234678 HeptaCDF	%	68						2918550
C13-123678 HexaCDD	%	68						2918550
C13-123678 HexaCDF	%	63						2918550
C13-12378 PentaCDD	%	74						2918550
C13-12378 PentaCDF	%	64						2918550
C13-2378 TetraCDD	%	79						2918550
C13-2378 TetraCDF	%	72						2918550
C13-OCDD	%	67						2918550
Confirmation C13-2378 TetraCDF	%	69						2923223

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Maxxam ID		NY9668	NY9669		
Sampling Date		2012/06/27	2012/06/27		
	Units	**SW-THREE CORNER POND (0-0.15M)**	**MIDSW-THREE CORNER POND (0.5M)**	**RDL**	**QC Batch**
PCBs					
Total PCB	ug/L	ND	ND	0.060	2898296
Surrogate Recovery (%)					
Decachlorobiphenyl	%	90 (1)	66 (1)		2898296

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Elevated PCB RDL due to insufficient sample.

Maxxam ID		NY9670		
Sampling Date		2012/06/27		
	Units	**BOTTOMSW-THREE CORNER POND (1.0M)**	**RDL**	**QC Batch**
PCBs				
Total PCB	ug/L	ND	0.060	2898296
Surrogate Recovery (%)				
Decachlorobiphenyl	%	83 (1)		2898296

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Elevated PCB RDL due to insufficient sample.

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SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NY9668						
Sampling Date		2012/06/27			TOXIC EQUIVALENCY		# of	
	Units	SW-THREE CORNER POND (0-0.15M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	ND	0.585	11.0	1.00	0.585		2912809
1,2,3,7,8-Penta CDD	pg/L	ND	0.571	11.0	1.00	0.571		2912809
1,2,3,4,7,8-Hexa CDD	pg/L	ND	0.564	11.0	0.100	0.0564		2912809
1,2,3,6,7,8-Hexa CDD	pg/L	ND	0.596	11.0	0.100	0.0596		2912809
1,2,3,7,8,9-Hexa CDD	pg/L	ND	0.537	11.0	0.100	0.0537		2912809
1,2,3,4,6,7,8-Hepta CDD	pg/L	ND	0.621	11.0	0.0100	0.00621		2912809
Octa CDD	pg/L	ND	1.15	110	0.000300	0.000345		2912809
Total Tetra CDD	pg/L	ND	0.585	11.0				2912809
Total Penta CDD	pg/L	ND	0.571	11.0				2912809
Total Hexa CDD	pg/L	ND	0.565	11.0				2912809
Total Hepta CDD	pg/L	ND	0.621	11.0				2912809
2,3,7,8-Tetra CDF **	pg/L	ND	0.565	11.0	0.100	0.0565		2912809
1,2,3,7,8-Penta CDF	pg/L	ND	0.743	11.0	0.0300	0.0223		2912809
2,3,4,7,8-Penta CDF	pg/L	ND	0.708	11.0	0.300	0.212		2912809
1,2,3,4,7,8-Hexa CDF	pg/L	ND	0.562	11.0	0.100	0.0562		2912809
1,2,3,6,7,8-Hexa CDF	pg/L	ND	0.555	11.0	0.100	0.0555		2912809
2,3,4,6,7,8-Hexa CDF	pg/L	ND	0.656	11.0	0.100	0.0656		2912809
1,2,3,7,8,9-Hexa CDF	pg/L	ND	0.682	11.0	0.100	0.0682		2912809
1,2,3,4,6,7,8-Hepta CDF	pg/L	ND	0.528	11.0	0.0100	0.00528		2912809
1,2,3,4,7,8,9-Hepta CDF	pg/L	ND	0.656	11.0	0.0100	0.00656		2912809
Octa CDF	pg/L	ND	1.09	110	0.000300	0.000327		2912809
Total Tetra CDF	pg/L	ND	0.565	11.0				2912809
Total Penta CDF	pg/L	ND	0.725	11.0				2912809
Total Hexa CDF	pg/L	ND	0.609	11.0				2912809

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NY9668						
Sampling Date		2012/06/27			**TOXIC EQUIVALENCY**		**# of**	
	Units	**SW-THREE CORNER POND (0-0.15M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
Total Hepta CDF **	pg/L	ND	0.585	11.0				2912809
TOTAL TOXIC EQUIVALENCY	pg/L					1.88		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	75						2912809
C13-1234678 HeptaCDF	%	83						2912809
C13-123678 HexaCDD	%	77						2912809
C13-123678 HexaCDF	%	78						2912809
C13-12378 PentaCDD	%	88						2912809
C13-12378 PentaCDF	%	82						2912809
C13-2378 TetraCDD	%	77						2912809
C13-2378 TetraCDF	%	82						2912809
C13-OCDD	%	84						2912809

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B297232
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SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NY9669						
Sampling Date		2012/06/27			TOXIC EQUIVALENCY		# of	
	Units	MIDSW-THREE CORNER POND (0.5M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	ND	0.463	9.62	1.00	0.463		2912809
1,2,3,7,8-Penta CDD	pg/L	ND	0.513	9.62	1.00	0.513		2912809
1,2,3,4,7,8-Hexa CDD	pg/L	ND	0.517	9.62	0.100	0.0517		2912809
1,2,3,6,7,8-Hexa CDD	pg/L	ND	0.547	9.62	0.100	0.0547		2912809
1,2,3,7,8,9-Hexa CDD	pg/L	ND	0.492	9.62	0.100	0.0492		2912809
1,2,3,4,6,7,8-Hepta CDD	pg/L	ND	0.539	9.62	0.0100	0.00539		2912809
Octa CDD	pg/L	ND	0.988	96.2	0.000300	0.000296		2912809
Total Tetra CDD	pg/L	ND	0.463	9.62				2912809
Total Penta CDD	pg/L	ND	0.513	9.62				2912809
Total Hexa CDD	pg/L	ND	0.518	9.62				2912809
Total Hepta CDD	pg/L	ND	0.539	9.62				2912809
2,3,7,8-Tetra CDF **	pg/L	ND	0.548	9.62	0.100	0.0548		2912809
1,2,3,7,8-Penta CDF	pg/L	ND	0.555	9.62	0.0300	0.0167		2912809
2,3,4,7,8-Penta CDF	pg/L	ND	0.528	9.62	0.300	0.158		2912809
1,2,3,4,7,8-Hexa CDF	pg/L	ND	0.351	9.62	0.100	0.0351		2912809
1,2,3,6,7,8-Hexa CDF	pg/L	ND	0.346	9.62	0.100	0.0346		2912809
2,3,4,6,7,8-Hexa CDF	pg/L	ND	0.409	9.62	0.100	0.0409		2912809
1,2,3,7,8,9-Hexa CDF	pg/L	ND	0.425	9.62	0.100	0.0425		2912809
1,2,3,4,6,7,8-Hepta CDF	pg/L	ND	0.455	9.62	0.0100	0.00455		2912809
1,2,3,4,7,8,9-Hepta CDF	pg/L	ND	0.565	9.62	0.0100	0.00565		2912809
Octa CDF	pg/L	ND	0.899	96.2	0.000300	0.000270		2912809
Total Tetra CDF	pg/L	ND	0.548	9.62				2912809
Total Penta CDF	pg/L	ND	0.541	9.62				2912809
Total Hexa CDF	pg/L	ND	0.380	9.62				2912809
Total Hepta CDF	pg/L	ND	0.504	9.62				2912809

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NY9669						
Sampling Date		2012/06/27			**TOXIC EQUIVALENCY**		**# of**	
	Units	**MIDSW-THREE CORNER POND (0.5M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
TOTAL TOXIC EQUIVALENCY	pg/L					1.53		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	78						2912809
C13-1234678 HeptaCDF **	%	86						2912809
C13-123678 HexaCDD	%	77						2912809
C13-123678 HexaCDF	%	80						2912809
C13-12378 PentaCDD	%	91						2912809
C13-12378 PentaCDF	%	86						2912809
C13-2378 TetraCDD	%	82						2912809
C13-2378 TetraCDF	%	86						2912809
C13-OCDD	%	84						2912809

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NY9670						
Sampling Date		2012/06/27			TOXIC EQUIVALENCY		# of	
	Units	BOTTOMSW-THREE CORNER POND (1.0M)	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	ND	0.496	9.52	1.00	0.496		2912809
1,2,3,7,8-Penta CDD	pg/L	ND	0.564	9.52	1.00	0.564		2912809
1,2,3,4,7,8-Hexa CDD	pg/L	ND	0.512	9.52	0.100	0.0512		2912809
1,2,3,6,7,8-Hexa CDD	pg/L	ND	0.541	9.52	0.100	0.0541		2912809
1,2,3,7,8,9-Hexa CDD	pg/L	ND	0.488	9.52	0.100	0.0488		2912809
1,2,3,4,6,7,8-Hepta CDD	pg/L	0.68	0.521	9.52	0.0100	0.00680		2912809
Octa CDD	pg/L	1.3	1.01	95.2	0.000300	0.000390		2912809
Total Tetra CDD	pg/L	ND	0.496	9.52				2912809
Total Penta CDD	pg/L	ND	0.564	9.52				2912809
Total Hexa CDD	pg/L	ND	0.513	9.52				2912809
Total Hepta CDD	pg/L	0.68	0.521	9.52				2912809
2,3,7,8-Tetra CDF **	pg/L	ND	0.487	9.52	0.100	0.0487		2912809
1,2,3,7,8-Penta CDF	pg/L	ND	0.564	9.52	0.0300	0.0169		2912809
2,3,4,7,8-Penta CDF	pg/L	ND	0.537	9.52	0.300	0.161		2912809
1,2,3,4,7,8-Hexa CDF	pg/L	ND	0.421	9.52	0.100	0.0421		2912809
1,2,3,6,7,8-Hexa CDF	pg/L	ND	0.416	9.52	0.100	0.0416		2912809
2,3,4,6,7,8-Hexa CDF	pg/L	ND	0.491	9.52	0.100	0.0491		2912809
1,2,3,7,8,9-Hexa CDF	pg/L	ND	0.511	9.52	0.100	0.0511		2912809
1,2,3,4,6,7,8-Hepta CDF	pg/L	ND	0.467	9.52	0.0100	0.00467		2912809
1,2,3,4,7,8,9-Hepta CDF	pg/L	ND	0.580	9.52	0.0100	0.00580		2912809
Octa CDF	pg/L	ND	0.986	95.2	0.000300	0.000296		2912809
Total Tetra CDF	pg/L	ND	0.487	9.52				2912809
Total Penta CDF	pg/L	ND	0.550	9.52				2912809
Total Hexa CDF	pg/L	ND	0.456	9.52				2912809
Total Hepta CDF	pg/L	ND	0.518	9.52				2912809

ND = Not detected
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		NY9670						
Sampling Date		2012/06/27			**TOXIC EQUIVALENCY**		**# of**	
	Units	**BOTTOMSW-THREE CORNER POND (1.0M)**	**EDL**	**RDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
TOTAL TOXIC EQUIVALENCY	pg/L					1.64		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	81						2912809
C13-1234678 HeptaCDF **	%	87						2912809
C13-123678 HexaCDD	%	80						2912809
C13-123678 HexaCDF	%	79						2912809
C13-12378 PentaCDD	%	90						2912809
C13-12378 PentaCDF	%	84						2912809
C13-2378 TetraCDD	%	78						2912809
C13-2378 TetraCDF	%	82						2912809
C13-OCDD	%	86						2912809

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B297232
Report Date: 2012/07/31

SNC-Lavalin Inc, Environment Division
Client Project #: 508907
Site Location: NEW HARBOUR
Your P.O. #: 008959
Sampler Initials: JG

ATLANTIC VOC IN SOIL (SOIL)

Volatile Organic Compounds in Soil: WS#2898159 - Bromomethane and Chloroethane unavailable due to calibration non-conformance.

Results relate only to the items tested.

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2896714	MJL	QC Standard	Turbidity	2012/07/03		103	%	80 - 120
		Method Blank	Turbidity	2012/07/03	ND, RDL=0.10		NTU	
		RPD	Turbidity	2012/07/03	2.5		%	25
2896736	GTH	Matrix Spike	D10-Anthracene	2012/07/03		85	%	30 - 130
			D14-Terphenyl (FS)	2012/07/03		92	%	30 - 130
			D8-Acenaphthylene	2012/07/03		75	%	30 - 130
			1-Methylnaphthalene	2012/07/03		68	%	30 - 130
			2-Methylnaphthalene	2012/07/03		69	%	30 - 130
			Acenaphthene	2012/07/03		73	%	30 - 130
			Acenaphthylene	2012/07/03		65	%	30 - 130
			Anthracene	2012/07/03		66	%	30 - 130
			Benzo(a)anthracene	2012/07/03		80	%	30 - 130
			Benzo(a)pyrene	2012/07/03		85	%	30 - 130
			Benzo(b)fluoranthene	2012/07/03		88	%	30 - 130
			Benzo(g,h,i)perylene	2012/07/03		85	%	30 - 130
			Benzo(j)fluoranthene	2012/07/03		87	%	30 - 130
			Benzo(k)fluoranthene	2012/07/03		85	%	30 - 130
			Chrysene	2012/07/03		79	%	30 - 130
			Dibenz(a,h)anthracene	2012/07/03		84	%	30 - 130
			Fluoranthene	2012/07/03		75	%	30 - 130
			Fluorene	2012/07/03		73	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2012/07/03		85	%	30 - 130
			Naphthalene	2012/07/03		68	%	30 - 130
			Perylene	2012/07/03		86	%	30 - 130
			Phenanthrene	2012/07/03		75	%	30 - 130
			Pyrene	2012/07/03		75	%	30 - 130
		Spiked Blank	D10-Anthracene	2012/07/03		96	%	30 - 130
			D14-Terphenyl (FS)	2012/07/03		96	%	30 - 130
			D8-Acenaphthylene	2012/07/03		81	%	30 - 130
			1-Methylnaphthalene	2012/07/03		72	%	30 - 130
			2-Methylnaphthalene	2012/07/03		75	%	30 - 130
			Acenaphthene	2012/07/03		78	%	30 - 130
			Acenaphthylene	2012/07/03		69	%	30 - 130
			Anthracene	2012/07/03		73	%	30 - 130
			Benzo(a)anthracene	2012/07/03		82	%	30 - 130
			Benzo(a)pyrene	2012/07/03		92	%	30 - 130
			Benzo(b)fluoranthene	2012/07/03		97	%	30 - 130
			Benzo(g,h,i)perylene	2012/07/03		92	%	30 - 130
			Benzo(j)fluoranthene	2012/07/03		95	%	30 - 130
			Benzo(k)fluoranthene	2012/07/03		93	%	30 - 130
			Chrysene	2012/07/03		82	%	30 - 130
			Dibenz(a,h)anthracene	2012/07/03		91	%	30 - 130
			Fluoranthene	2012/07/03		78	%	30 - 130
			Fluorene	2012/07/03		78	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2012/07/03		91	%	30 - 130
			Naphthalene	2012/07/03		73	%	30 - 130
			Perylene	2012/07/03		93	%	30 - 130
			Phenanthrene	2012/07/03		78	%	30 - 130
			Pyrene	2012/07/03		79	%	30 - 130
		Method Blank	D10-Anthracene	2012/07/03		87	%	30 - 130
			D14-Terphenyl (FS)	2012/07/03		96	%	30 - 130
			D8-Acenaphthylene	2012/07/03		86	%	30 - 130
			1-Methylnaphthalene	2012/07/03	ND, RDL=0.010		mg/kg	
			2-Methylnaphthalene	2012/07/03	ND, RDL=0.010		mg/kg	
			Acenaphthene	2012/07/03	ND, RDL=0.010		mg/kg	

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2896736	GTH	Method Blank	Acenaphthylene	2012/07/03	ND, RDL=0.010		mg/kg	
			Anthracene	2012/07/03	ND, RDL=0.010		mg/kg	
			Benzo(a)anthracene	2012/07/03	ND, RDL=0.010		mg/kg	
			Benzo(a)pyrene	2012/07/03	ND, RDL=0.010		mg/kg	
			Benzo(b)fluoranthene	2012/07/03	ND, RDL=0.010		mg/kg	
			Benzo(g,h,i)perylene	2012/07/03	ND, RDL=0.010		mg/kg	
			Benzo(j)fluoranthene	2012/07/03	ND, RDL=0.010		mg/kg	
			Benzo(k)fluoranthene	2012/07/03	ND, RDL=0.010		mg/kg	
			Chrysene	2012/07/03	ND, RDL=0.010		mg/kg	
			Dibenz(a,h)anthracene	2012/07/03	ND, RDL=0.010		mg/kg	
			Fluoranthene	2012/07/03	ND, RDL=0.010		mg/kg	
			Fluorene	2012/07/03	ND, RDL=0.010		mg/kg	
			Indeno(1,2,3-cd)pyrene	2012/07/03	ND, RDL=0.010		mg/kg	
			Naphthalene	2012/07/03	ND, RDL=0.010		mg/kg	
			Perylene	2012/07/03	ND, RDL=0.010		mg/kg	
			Phenanthrene	2012/07/03	ND, RDL=0.010		mg/kg	
			Pyrene	2012/07/03	ND, RDL=0.010		mg/kg	
		RPD	1-Methylnaphthalene	2012/07/03	NC		%	50
			2-Methylnaphthalene	2012/07/03	NC		%	50
			Acenaphthene	2012/07/03	NC		%	50
			Acenaphthylene	2012/07/03	NC		%	50
			Anthracene	2012/07/03	NC		%	50
			Benzo(a)anthracene	2012/07/03	NC		%	50
			Benzo(a)pyrene	2012/07/03	NC		%	50
			Benzo(b)fluoranthene	2012/07/03	NC		%	50
			Benzo(g,h,i)perylene	2012/07/03	NC		%	50
			Benzo(j)fluoranthene	2012/07/03	NC		%	50
			Benzo(k)fluoranthene	2012/07/03	NC		%	50
			Chrysene	2012/07/03	NC		%	50
			Dibenz(a,h)anthracene	2012/07/03	NC		%	50
			Fluoranthene	2012/07/03	NC		%	50
			Fluorene	2012/07/03	NC		%	50
			Indeno(1,2,3-cd)pyrene	2012/07/03	NC		%	50
			Naphthalene	2012/07/03	NC		%	50
			Perylene	2012/07/03	NC		%	50
			Phenanthrene	2012/07/03	NC		%	50
			Pyrene	2012/07/03	NC		%	50
2897075	MJL	QC Standard	pH	2012/07/03		100	%	80 - 120
		RPD	pH	2012/07/03	0.4		%	25
2897080	MJL	Spiked Blank	Conductivity	2012/07/03		101	%	80 - 120
		Method Blank	Conductivity	2012/07/03	ND, RDL=1.0		uS/cm	
		RPD	Conductivity	2012/07/03	0.5		%	25
2897167	ABU	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2012/07/04		94	%	80 - 120
		QC Standard	Nitrogen (Ammonia Nitrogen)	2012/07/04		98	%	80 - 120
		Spiked Blank	Nitrogen (Ammonia Nitrogen)	2012/07/04		96	%	80 - 120
		Method Blank	Nitrogen (Ammonia Nitrogen)	2012/07/04	ND, RDL=0.050		mg/L	
		RPD	Nitrogen (Ammonia Nitrogen)	2012/07/04	NC		%	25
2897205	DLB	Matrix Spike	Total Aluminum (Al)	2012/07/04		103	%	80 - 120
			Total Antimony (Sb)	2012/07/04		106	%	80 - 120
			Total Arsenic (As)	2012/07/04		100	%	80 - 120
			Total Barium (Ba)	2012/07/04		99	%	80 - 120
			Total Beryllium (Be)	2012/07/04		98	%	80 - 120
			Total Bismuth (Bi)	2012/07/04		105	%	80 - 120
			Total Boron (B)	2012/07/04		102	%	80 - 120
			Total Cadmium (Cd)	2012/07/04		97	%	80 - 120

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2897205	DLB	Matrix Spike	Total Calcium (Ca)	2012/07/04		99	%	80 - 120
			Total Chromium (Cr)	2012/07/04		100	%	80 - 120
			Total Cobalt (Co)	2012/07/04		101	%	80 - 120
			Total Copper (Cu)	2012/07/04		100	%	80 - 120
			Total Iron (Fe)	2012/07/04		106	%	80 - 120
			Total Lead (Pb)	2012/07/04		99	%	80 - 120
			Total Magnesium (Mg)	2012/07/04		106	%	80 - 120
			Total Manganese (Mn)	2012/07/04		99	%	80 - 120
			Total Molybdenum (Mo)	2012/07/04		107	%	80 - 120
			Total Nickel (Ni)	2012/07/04		101	%	80 - 120
			Total Phosphorus (P)	2012/07/04		105	%	80 - 120
			Total Potassium (K)	2012/07/04		104	%	80 - 120
			Total Selenium (Se)	2012/07/04		98	%	80 - 120
			Total Silver (Ag)	2012/07/04		103	%	80 - 120
			Total Sodium (Na)	2012/07/04		106	%	80 - 120
			Total Strontium (Sr)	2012/07/04		99	%	80 - 120
			Total Thallium (Tl)	2012/07/04		102	%	80 - 120
			Total Tin (Sn)	2012/07/04		103	%	80 - 120
			Total Titanium (Ti)	2012/07/04		103	%	80 - 120
			Total Uranium (U)	2012/07/04		109	%	80 - 120
			Total Vanadium (V)	2012/07/04		102	%	80 - 120
			Total Zinc (Zn)	2012/07/04		101	%	80 - 120
		Spiked Blank	Total Aluminum (Al)	2012/07/04		105	%	80 - 120
			Total Antimony (Sb)	2012/07/04		104	%	80 - 120
			Total Arsenic (As)	2012/07/04		98	%	80 - 120
			Total Barium (Ba)	2012/07/04		98	%	80 - 120
			Total Beryllium (Be)	2012/07/04		99	%	80 - 120
			Total Bismuth (Bi)	2012/07/04		105	%	80 - 120
			Total Boron (B)	2012/07/04		103	%	80 - 120
			Total Cadmium (Cd)	2012/07/04		96	%	80 - 120
			Total Calcium (Ca)	2012/07/04		98	%	80 - 120
			Total Chromium (Cr)	2012/07/04		99	%	80 - 120
			Total Cobalt (Co)	2012/07/04		100	%	80 - 120
			Total Copper (Cu)	2012/07/04		99	%	80 - 120
			Total Iron (Fe)	2012/07/04		104	%	80 - 120
			Total Lead (Pb)	2012/07/04		98	%	80 - 120
			Total Magnesium (Mg)	2012/07/04		103	%	80 - 120
			Total Manganese (Mn)	2012/07/04		98	%	80 - 120
			Total Molybdenum (Mo)	2012/07/04		105	%	80 - 120
			Total Nickel (Ni)	2012/07/04		101	%	80 - 120
			Total Phosphorus (P)	2012/07/04		106	%	80 - 120
			Total Potassium (K)	2012/07/04		104	%	80 - 120
			Total Selenium (Se)	2012/07/04		98	%	80 - 120
			Total Silver (Ag)	2012/07/04		102	%	80 - 120
			Total Sodium (Na)	2012/07/04		104	%	80 - 120
			Total Strontium (Sr)	2012/07/04		99	%	80 - 120
			Total Thallium (Tl)	2012/07/04		101	%	80 - 120
			Total Tin (Sn)	2012/07/04		101	%	80 - 120
			Total Titanium (Ti)	2012/07/04		104	%	80 - 120
			Total Uranium (U)	2012/07/04		107	%	80 - 120
			Total Vanadium (V)	2012/07/04		101	%	80 - 120
			Total Zinc (Zn)	2012/07/04		101	%	80 - 120
		Method Blank	Total Aluminum (Al)	2012/07/04	5.7, RDL=5.0		ug/L	
			Total Antimony (Sb)	2012/07/04	ND, RDL=1.0		ug/L	
			Total Arsenic (As)	2012/07/04	ND, RDL=1.0		ug/L	

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Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2897205	DLB	Method Blank	Total Barium (Ba)	2012/07/04	ND, RDL=1.0		ug/L	
			Total Beryllium (Be)	2012/07/04	ND, RDL=1.0		ug/L	
			Total Bismuth (Bi)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Boron (B)	2012/07/04	ND, RDL=50		ug/L	
			Total Cadmium (Cd)	2012/07/04	ND, RDL=0.017		ug/L	
			Total Calcium (Ca)	2012/07/04	ND, RDL=100		ug/L	
			Total Chromium (Cr)	2012/07/04	ND, RDL=1.0		ug/L	
			Total Cobalt (Co)	2012/07/04	ND, RDL=0.40		ug/L	
			Total Copper (Cu)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Iron (Fe)	2012/07/04	ND, RDL=50		ug/L	
			Total Lead (Pb)	2012/07/04	ND, RDL=0.50		ug/L	
			Total Magnesium (Mg)	2012/07/04	ND, RDL=100		ug/L	
			Total Manganese (Mn)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Molybdenum (Mo)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Nickel (Ni)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Phosphorus (P)	2012/07/04	ND, RDL=100		ug/L	
			Total Potassium (K)	2012/07/04	ND, RDL=100		ug/L	
			Total Selenium (Se)	2012/07/04	ND, RDL=1.0		ug/L	
			Total Silver (Ag)	2012/07/04	ND, RDL=0.10		ug/L	
			Total Sodium (Na)	2012/07/04	ND, RDL=100		ug/L	
			Total Strontium (Sr)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Thallium (Tl)	2012/07/04	ND, RDL=0.10		ug/L	
			Total Tin (Sn)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Titanium (Ti)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Uranium (U)	2012/07/04	ND, RDL=0.10		ug/L	
			Total Vanadium (V)	2012/07/04	ND, RDL=2.0		ug/L	
			Total Zinc (Zn)	2012/07/04	ND, RDL=5.0		ug/L	
		RPD	Total Arsenic (As)	2012/07/04	0.06		%	25
			Total Uranium (U)	2012/07/04	NC		%	25
2898159	ASL	Matrix Spike						
		[NY9671-03]	4-Bromofluorobenzene	2012/07/05		91	%	60 - 140
			D4-1,2-Dichloroethane	2012/07/05		93	%	60 - 140
			D8-Toluene	2012/07/05		92	%	60 - 140
			1,1,1-Trichloroethane	2012/07/05		72	%	60 - 140
			1,1,2,2-Tetrachloroethane	2012/07/05		82	%	60 - 140
			1,1,2-Trichloroethane	2012/07/05		99	%	60 - 140
			1,1-Dichloroethane	2012/07/05		86	%	60 - 140
			1,1-Dichloroethylene	2012/07/05		72	%	60 - 140
			1,2-Dichlorobenzene	2012/07/05		88	%	60 - 140
			1,2-Dichloroethane	2012/07/05		103	%	60 - 140
			1,2-Dichloropropane	2012/07/05		93	%	60 - 140
			1,3-Dichlorobenzene	2012/07/05		86	%	60 - 140
			1,4-Dichlorobenzene	2012/07/05		88	%	60 - 140
			Benzene	2012/07/05		95	%	60 - 140
			Bromodichloromethane	2012/07/05		72	%	60 - 140
			Bromoform	2012/07/05		57 (1)	%	60 - 140
			Carbon Tetrachloride	2012/07/05		59 (1)	%	60 - 140
			Chlorobenzene	2012/07/05		99	%	60 - 140
			Chloroform	2012/07/05		97	%	60 - 140
			Chloromethane	2012/07/05		61	%	60 - 140
			cis-1,2-Dichloroethylene	2012/07/05		90	%	60 - 140
			cis-1,3-Dichloropropene	2012/07/05		67	%	60 - 140
			Dibromochloromethane	2012/07/05		63	%	60 - 140
			Ethylbenzene	2012/07/05		97	%	60 - 140
			Ethylene Dibromide	2012/07/05		90	%	60 - 140

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Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2898159	ASL	Matrix Spike						
		[NY9671-03]	Methylene Chloride(Dichloromethane)	2012/07/05		91	%	60 - 140
			o-Xylene	2012/07/05		102	%	60 - 140
			p+m-Xylene	2012/07/05		98	%	60 - 140
			Styrene	2012/07/05		98	%	60 - 140
			Tetrachloroethylene	2012/07/05		91	%	60 - 140
			Toluene	2012/07/05		99	%	60 - 140
			trans-1,2-Dichloroethylene	2012/07/05		80	%	60 - 140
			trans-1,3-Dichloropropene	2012/07/05		61	%	60 - 140
			Trichloroethylene	2012/07/05		91	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2012/07/05		74	%	60 - 140
			Vinyl Chloride	2012/07/05		55 (1)	%	60 - 140
		Spiked Blank	4-Bromofluorobenzene	2012/07/05		102	%	60 - 140
			D4-1,2-Dichloroethane	2012/07/05		103	%	60 - 140
			D8-Toluene	2012/07/05		102	%	60 - 140
			1,1,1-Trichloroethane	2012/07/05		87	%	60 - 140
			1,1,2,2-Tetrachloroethane	2012/07/05		87	%	60 - 140
			1,1,2-Trichloroethane	2012/07/05		103	%	60 - 140
			1,1-Dichloroethane	2012/07/05		98	%	60 - 140
			1,1-Dichloroethylene	2012/07/05		92	%	60 - 140
			1,2-Dichlorobenzene	2012/07/05		100	%	60 - 140
			1,2-Dichloroethane	2012/07/05		103	%	60 - 140
			1,2-Dichloropropane	2012/07/05		97	%	60 - 140
			1,3-Dichlorobenzene	2012/07/05		99	%	60 - 140
			1,4-Dichlorobenzene	2012/07/05		101	%	60 - 140
			Benzene	2012/07/05		104	%	60 - 140
			Bromodichloromethane	2012/07/05		78	%	60 - 140
			Bromoform	2012/07/05		63	%	60 - 140
			Carbon Tetrachloride	2012/07/05		76	%	60 - 140
			Chlorobenzene	2012/07/05		104	%	60 - 140
			Chloroform	2012/07/05		103	%	60 - 140
			Chloromethane	2012/07/05		74	%	60 - 140
			cis-1,2-Dichloroethylene	2012/07/05		103	%	60 - 140
			cis-1,3-Dichloropropene	2012/07/05		76	%	60 - 140
			Dibromochloromethane	2012/07/05		71	%	60 - 140
			Ethylbenzene	2012/07/05		104	%	60 - 140
			Ethylene Dibromide	2012/07/05		100	%	60 - 140
			Methylene Chloride(Dichloromethane)	2012/07/05		100	%	60 - 140
			o-Xylene	2012/07/05		113	%	60 - 140
			p+m-Xylene	2012/07/05		109	%	60 - 140
			Styrene	2012/07/05		113	%	60 - 140
			Tetrachloroethylene	2012/07/05		105	%	60 - 140
			Toluene	2012/07/05		105	%	60 - 140
			trans-1,2-Dichloroethylene	2012/07/05		94	%	60 - 140
			trans-1,3-Dichloropropene	2012/07/05		69	%	60 - 140
			Trichloroethylene	2012/07/05		102	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2012/07/05		82	%	60 - 140
			Vinyl Chloride	2012/07/05		76	%	60 - 140
		Method Blank	4-Bromofluorobenzene	2012/07/05		103	%	60 - 140
			D4-1,2-Dichloroethane	2012/07/05		102	%	60 - 140
			D8-Toluene	2012/07/05		103	%	60 - 140
			1,1,1-Trichloroethane	2012/07/05	ND, RDL=25		ug/kg	
			1,1,2,2-Tetrachloroethane	2012/07/05	ND, RDL=25		ug/kg	
			1,1,2-Trichloroethane	2012/07/05	ND, RDL=25		ug/kg	
			1,1-Dichloroethane	2012/07/05	ND, RDL=25		ug/kg	

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Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2898159	ASL	Method Blank	1,1-Dichloroethylene	2012/07/05	ND, RDL=25		ug/kg	
			1,2-Dichlorobenzene	2012/07/05	ND, RDL=25		ug/kg	
			1,2-Dichloroethane	2012/07/05	ND, RDL=25		ug/kg	
			1,2-Dichloropropane	2012/07/05	ND, RDL=25		ug/kg	
			1,3-Dichlorobenzene	2012/07/05	ND, RDL=25		ug/kg	
			1,4-Dichlorobenzene	2012/07/05	ND, RDL=25		ug/kg	
			Benzene	2012/07/05	ND, RDL=25		ug/kg	
			Bromodichloromethane	2012/07/05	ND, RDL=25		ug/kg	
			Bromoform	2012/07/05	ND, RDL=25		ug/kg	
			Carbon Tetrachloride	2012/07/05	ND, RDL=25		ug/kg	
			Chlorobenzene	2012/07/05	ND, RDL=25		ug/kg	
			Chloroform	2012/07/05	ND, RDL=25		ug/kg	
			Chloromethane	2012/07/05	ND, RDL=25		ug/kg	
			cis-1,2-Dichloroethylene	2012/07/05	ND, RDL=25		ug/kg	
			cis-1,3-Dichloropropene	2012/07/05	ND, RDL=25		ug/kg	
			Dibromochloromethane	2012/07/05	ND, RDL=25		ug/kg	
			Ethylbenzene	2012/07/05	ND, RDL=25		ug/kg	
			Ethylene Dibromide	2012/07/05	ND, RDL=25		ug/kg	
			Methylene Chloride(Dichloromethane)	2012/07/05	ND, RDL=25		ug/kg	
			o-Xylene	2012/07/05	ND, RDL=25		ug/kg	
			p+m-Xylene	2012/07/05	ND, RDL=25		ug/kg	
			Styrene	2012/07/05	ND, RDL=25		ug/kg	
			Tetrachloroethylene	2012/07/05	ND, RDL=25		ug/kg	
			Toluene	2012/07/05	ND, RDL=25		ug/kg	
			trans-1,2-Dichloroethylene	2012/07/05	ND, RDL=25		ug/kg	
			trans-1,3-Dichloropropene	2012/07/05	ND, RDL=25		ug/kg	
			Trichloroethylene	2012/07/05	ND, RDL=25		ug/kg	
			Trichlorofluoromethane (FREON 11)	2012/07/05	ND, RDL=25		ug/kg	
			Vinyl Chloride	2012/07/05	ND, RDL=25		ug/kg	
		RPD [NY9671-03]	1,1,1-Trichloroethane	2012/07/05	NC		%	50
			1,1,2,2-Tetrachloroethane	2012/07/05	NC		%	50
			1,1,2-Trichloroethane	2012/07/05	NC		%	50
			1,1-Dichloroethane	2012/07/05	NC		%	50
			1,1-Dichloroethylene	2012/07/05	NC		%	50
			1,2-Dichlorobenzene	2012/07/05	NC		%	50
			1,2-Dichloroethane	2012/07/05	NC		%	50
			1,2-Dichloropropane	2012/07/05	NC		%	50
			1,3-Dichlorobenzene	2012/07/05	NC		%	50
			1,4-Dichlorobenzene	2012/07/05	NC		%	50
			Benzene	2012/07/05	NC		%	50
			Bromodichloromethane	2012/07/05	NC		%	50
			Bromoform	2012/07/05	NC		%	50
			Carbon Tetrachloride	2012/07/05	NC		%	50
			Chlorobenzene	2012/07/05	NC		%	50
			Chloroform	2012/07/05	NC		%	50
			Chloromethane	2012/07/05	NC		%	50
			cis-1,2-Dichloroethylene	2012/07/05	NC		%	50
			cis-1,3-Dichloropropene	2012/07/05	NC		%	50
			Dibromochloromethane	2012/07/05	NC		%	50
			Ethylbenzene	2012/07/05	NC		%	50
			Ethylene Dibromide	2012/07/05	NC		%	50
			Methylene Chloride(Dichloromethane)	2012/07/05	NC		%	50
			o-Xylene	2012/07/05	NC		%	50
			p+m-Xylene	2012/07/05	NC		%	50
			Styrene	2012/07/05	NC		%	50

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Quality Assurance Report (Continued)

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2898159	ASL	RPD [NY9671-03]	Tetrachloroethylene	2012/07/05	NC		%	50
			Toluene	2012/07/05	NC		%	50
			trans-1,2-Dichloroethylene	2012/07/05	NC		%	50
			trans-1,3-Dichloropropene	2012/07/05	NC		%	50
			Trichloroethylene	2012/07/05	NC		%	50
			Trichlorofluoromethane (FREON 11)	2012/07/05	NC		%	50
			Vinyl Chloride	2012/07/05	NC		%	50
2898196	DLB	Matrix Spike	Available Antimony (Sb)	2012/07/06		94	%	75 - 125
			Available Arsenic (As)	2012/07/06		98	%	75 - 125
			Available Barium (Ba)	2012/07/06		NC	%	75 - 125
			Available Beryllium (Be)	2012/07/06		98	%	75 - 125
			Available Bismuth (Bi)	2012/07/06		106	%	75 - 125
			Available Boron (B)	2012/07/06		96	%	75 - 125
			Available Cadmium (Cd)	2012/07/06		96	%	75 - 125
			Available Chromium (Cr)	2012/07/06		103	%	75 - 125
			Available Cobalt (Co)	2012/07/06		102	%	75 - 125
			Available Copper (Cu)	2012/07/06		103	%	75 - 125
			Available Lead (Pb)	2012/07/06		99	%	75 - 125
			Available Lithium (Li)	2012/07/06		103	%	75 - 125
			Available Manganese (Mn)	2012/07/06		NC	%	75 - 125
			Available Mercury (Hg)	2012/07/06		99	%	75 - 125
			Available Molybdenum (Mo)	2012/07/06		99	%	75 - 125
			Available Nickel (Ni)	2012/07/06		100	%	75 - 125
			Available Rubidium (Rb)	2012/07/06		97	%	75 - 125
			Available Selenium (Se)	2012/07/06		97	%	75 - 125
			Available Silver (Ag)	2012/07/06		96	%	75 - 125
			Available Strontium (Sr)	2012/07/06		103	%	75 - 125
			Available Thallium (Tl)	2012/07/06		103	%	75 - 125
			Available Tin (Sn)	2012/07/06		99	%	75 - 125
			Available Uranium (U)	2012/07/06		109	%	75 - 125
			Available Vanadium (V)	2012/07/06		NC	%	75 - 125
			Available Zinc (Zn)	2012/07/06		103	%	75 - 125
		Spiked Blank	Available Antimony (Sb)	2012/07/05		112	%	75 - 125
			Available Arsenic (As)	2012/07/05		99	%	75 - 125
			Available Barium (Ba)	2012/07/05		93	%	75 - 125
			Available Beryllium (Be)	2012/07/05		93	%	75 - 125
			Available Bismuth (Bi)	2012/07/05		102	%	75 - 125
			Available Boron (B)	2012/07/05		98	%	75 - 125
			Available Cadmium (Cd)	2012/07/05		97	%	75 - 125
			Available Chromium (Cr)	2012/07/05		99	%	75 - 125
			Available Cobalt (Co)	2012/07/05		99	%	75 - 125
			Available Copper (Cu)	2012/07/05		98	%	75 - 125
			Available Lead (Pb)	2012/07/05		99	%	75 - 125
			Available Lithium (Li)	2012/07/05		98	%	75 - 125
			Available Manganese (Mn)	2012/07/05		97	%	75 - 125
			Available Mercury (Hg)	2012/07/05		101	%	75 - 125
			Available Molybdenum (Mo)	2012/07/05		107	%	75 - 125
			Available Nickel (Ni)	2012/07/05		98	%	75 - 125
			Available Rubidium (Rb)	2012/07/05		95	%	75 - 125
			Available Selenium (Se)	2012/07/05		100	%	75 - 125
			Available Silver (Ag)	2012/07/05		107	%	75 - 125
			Available Strontium (Sr)	2012/07/05		97	%	75 - 125
			Available Thallium (Tl)	2012/07/05		102	%	75 - 125
			Available Tin (Sn)	2012/07/05		105	%	75 - 125
			Available Uranium (U)	2012/07/05		105	%	75 - 125

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2898196	DLB	Spiked Blank	Available Vanadium (V)	2012/07/05		98	%	75 - 125
			Available Zinc (Zn)	2012/07/05		101	%	75 - 125
		Method Blank	Available Aluminum (Al)	2012/07/05	ND, RDL=10		mg/kg	
			Available Antimony (Sb)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Arsenic (As)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Barium (Ba)	2012/07/05	ND, RDL=5.0		mg/kg	
			Available Beryllium (Be)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Bismuth (Bi)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Boron (B)	2012/07/05	ND, RDL=5.0		mg/kg	
			Available Cadmium (Cd)	2012/07/05	ND, RDL=0.30		mg/kg	
			Available Chromium (Cr)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Cobalt (Co)	2012/07/05	ND, RDL=1.0		mg/kg	
			Available Copper (Cu)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Iron (Fe)	2012/07/05	ND, RDL=50		mg/kg	
			Available Lead (Pb)	2012/07/05	ND, RDL=0.50		mg/kg	
			Available Lithium (Li)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Manganese (Mn)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Mercury (Hg)	2012/07/05	ND, RDL=0.10		mg/kg	
			Available Molybdenum (Mo)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Nickel (Ni)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Rubidium (Rb)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Selenium (Se)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Silver (Ag)	2012/07/05	ND, RDL=0.50		mg/kg	
			Available Strontium (Sr)	2012/07/05	ND, RDL=5.0		mg/kg	
			Available Thallium (Tl)	2012/07/05	ND, RDL=0.10		mg/kg	
			Available Tin (Sn)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Uranium (U)	2012/07/05	ND, RDL=0.10		mg/kg	
			Available Vanadium (V)	2012/07/05	ND, RDL=2.0		mg/kg	
			Available Zinc (Zn)	2012/07/05	ND, RDL=5.0		mg/kg	
		RPD	Available Aluminum (Al)	2012/07/06	1.6		%	35
			Available Antimony (Sb)	2012/07/06	NC		%	35
			Available Arsenic (As)	2012/07/06	NC		%	35
			Available Barium (Ba)	2012/07/06	1.1		%	35
			Available Beryllium (Be)	2012/07/06	NC		%	35
			Available Bismuth (Bi)	2012/07/06	NC		%	35
			Available Boron (B)	2012/07/06	NC		%	35
			Available Cadmium (Cd)	2012/07/06	NC		%	35
			Available Chromium (Cr)	2012/07/06	9.0		%	35
			Available Cobalt (Co)	2012/07/06	NC		%	35
			Available Copper (Cu)	2012/07/06	NC		%	35
			Available Iron (Fe)	2012/07/06	1.6		%	35
			Available Lead (Pb)	2012/07/06	8.6		%	35
			Available Lithium (Li)	2012/07/06	NC		%	35
			Available Manganese (Mn)	2012/07/06	19.2		%	35
			Available Mercury (Hg)	2012/07/06	NC		%	35
			Available Molybdenum (Mo)	2012/07/06	NC		%	35
			Available Nickel (Ni)	2012/07/06	NC		%	35
			Available Rubidium (Rb)	2012/07/06	7.7		%	35
			Available Selenium (Se)	2012/07/06	NC		%	35
			Available Silver (Ag)	2012/07/06	NC		%	35
			Available Strontium (Sr)	2012/07/06	NC		%	35
			Available Thallium (Tl)	2012/07/06	NC		%	35
			Available Tin (Sn)	2012/07/06	NC		%	35
			Available Uranium (U)	2012/07/06	NC		%	35
			Available Vanadium (V)	2012/07/06	3.9		%	35

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2898196	DLB	RPD	Available Zinc (Zn)	2012/07/06	NC		%	35
2898226	KJO	Matrix Spike	Decachlorobiphenyl	2012/07/05		85	%	30 - 130
			Total PCB	2012/07/05		96	%	70 - 130
		Spiked Blank	Decachlorobiphenyl	2012/07/05		95	%	30 - 130
			Total PCB	2012/07/05		112	%	70 - 130
		Method Blank	Decachlorobiphenyl	2012/07/05		95	%	30 - 130
			Total PCB	2012/07/05	ND, RDL=0.050		ug/g	
		RPD	Total PCB	2012/07/05	NC		%	50
2898296	KJO	Matrix Spike	Decachlorobiphenyl	2012/07/06		94	%	30 - 130
			Total PCB	2012/07/06		92	%	70 - 130
		Spiked Blank	Decachlorobiphenyl	2012/07/06		82	%	30 - 130
			Total PCB	2012/07/06		89	%	70 - 130
		Method Blank	Decachlorobiphenyl	2012/07/06		82	%	30 - 130
			Total PCB	2012/07/06	ND, RDL=0.050		ug/L	
		RPD	Total PCB	2012/07/06	NC		%	40
2898715	IFR	Matrix Spike	Dissolved Sulphate (SO4)	2012/07/05		103	%	80 - 120
		QC Standard	Dissolved Sulphate (SO4)	2012/07/05		105	%	80 - 120
		Spiked Blank	Dissolved Sulphate (SO4)	2012/07/05		103	%	80 - 120
		Method Blank	Dissolved Sulphate (SO4)	2012/07/05	ND, RDL=2.0		mg/L	
		RPD	Dissolved Sulphate (SO4)	2012/07/05	NC		%	25
2898720	JOA	Matrix Spike	Total Alkalinity (Total as CaCO3)	2012/07/05		94	%	80 - 120
		QC Standard	Total Alkalinity (Total as CaCO3)	2012/07/05		107	%	80 - 120
		Spiked Blank	Total Alkalinity (Total as CaCO3)	2012/07/05		106	%	80 - 120
		Method Blank	Total Alkalinity (Total as CaCO3)	2012/07/05	ND, RDL=5.0		mg/L	
		RPD	Total Alkalinity (Total as CaCO3)	2012/07/05	NC		%	25
2898721	IFR	Matrix Spike	Dissolved Chloride (Cl)	2012/07/06		NC	%	80 - 120
		QC Standard	Dissolved Chloride (Cl)	2012/07/06		103	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2012/07/06		101	%	80 - 120
		Method Blank	Dissolved Chloride (Cl)	2012/07/06	ND, RDL=1.0		mg/L	
		RPD	Dissolved Chloride (Cl)	2012/07/06	3.3		%	25
2898725	IFR	Matrix Spike	Reactive Silica (SiO2)	2012/07/05		101	%	80 - 120
		QC Standard	Reactive Silica (SiO2)	2012/07/05		104	%	75 - 125
		Spiked Blank	Reactive Silica (SiO2)	2012/07/05		102	%	80 - 120
		Method Blank	Reactive Silica (SiO2)	2012/07/05	ND, RDL=0.50		mg/L	
		RPD	Reactive Silica (SiO2)	2012/07/05	NC		%	25
2898727	IFR	QC Standard	Colour	2012/07/06		91	%	80 - 120
		Method Blank	Colour	2012/07/06	ND, RDL=5.0		TCU	
		RPD	Colour	2012/07/06	NC		%	25
2898728	SMT	Matrix Spike	Orthophosphate (P)	2012/07/05		87	%	80 - 120
		QC Standard	Orthophosphate (P)	2012/07/05		95	%	80 - 120
		Spiked Blank	Orthophosphate (P)	2012/07/05		90	%	80 - 120
		Method Blank	Orthophosphate (P)	2012/07/05	ND, RDL=0.010		mg/L	
		RPD	Orthophosphate (P)	2012/07/05	NC		%	25
2898729	SMT	Matrix Spike	Nitrate + Nitrite	2012/07/05		99	%	80 - 120
		QC Standard	Nitrate + Nitrite	2012/07/05		102	%	80 - 120
		Spiked Blank	Nitrate + Nitrite	2012/07/05		99	%	80 - 120
		Method Blank	Nitrate + Nitrite	2012/07/05	ND, RDL=0.050		mg/L	
		RPD	Nitrate + Nitrite	2012/07/05	NC		%	25
2898736	SMT	Matrix Spike	Nitrite (N)	2012/07/06		92	%	80 - 120
		QC Standard	Nitrite (N)	2012/07/06		90	%	80 - 120
		Spiked Blank	Nitrite (N)	2012/07/06		90	%	80 - 120
		Method Blank	Nitrite (N)	2012/07/06	ND, RDL=0.010		mg/L	
		RPD	Nitrite (N)	2012/07/06	NC		%	25
2899560	SCR	Matrix Spike	Total Organic Carbon (C)	2012/07/05		88	%	80 - 120
		Spiked Blank	Total Organic Carbon (C)	2012/07/05		88	%	80 - 120

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Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2899560	SCR	Method Blank	Total Organic Carbon (C)	2012/07/05	ND, RDL=0.50		mg/L	
		RPD	Total Organic Carbon (C)	2012/07/05	NC		%	25
2912809	OBC	Spiked Blank	C13-1234678 HeptaCDD	2012/07/19		80	%	40 - 130
			C13-1234678 HeptaCDF	2012/07/19		84	%	40 - 130
			C13-123678 HexaCDD	2012/07/19		79	%	40 - 130
			C13-123678 HexaCDF	2012/07/19		77	%	40 - 130
			C13-12378 PentaCDD	2012/07/19		91	%	40 - 130
			C13-12378 PentaCDF	2012/07/19		86	%	40 - 130
			C13-2378 TetraCDD	2012/07/19		87	%	40 - 130
			C13-2378 TetraCDF	2012/07/19		87	%	40 - 130
			C13-OCDD	2012/07/19		89	%	40 - 130
			2,3,7,8-Tetra CDD	2012/07/19		108	%	80 - 140
			1,2,3,7,8-Penta CDD	2012/07/19		116	%	80 - 140
			1,2,3,4,7,8-Hexa CDD	2012/07/19		123	%	80 - 140
			1,2,3,6,7,8-Hexa CDD	2012/07/19		124	%	80 - 140
			1,2,3,7,8,9-Hexa CDD	2012/07/19		129	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDD	2012/07/19		123	%	80 - 140
			Octa CDD	2012/07/19		102	%	80 - 140
			2,3,7,8-Tetra CDF	2012/07/19		107	%	80 - 140
			1,2,3,7,8-Penta CDF	2012/07/19		111	%	80 - 140
			2,3,4,7,8-Penta CDF	2012/07/19		119	%	80 - 140
			1,2,3,4,7,8-Hexa CDF	2012/07/19		110	%	80 - 140
			1,2,3,6,7,8-Hexa CDF	2012/07/19		112	%	80 - 140
			2,3,4,6,7,8-Hexa CDF	2012/07/19		129	%	80 - 140
			1,2,3,7,8,9-Hexa CDF	2012/07/19		121	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDF	2012/07/19		100	%	80 - 140
			1,2,3,4,7,8,9-Hepta CDF	2012/07/19		102	%	80 - 140
			Octa CDF	2012/07/19		97	%	80 - 140
		Method Blank	C13-1234678 HeptaCDD	2012/07/19		79	%	40 - 130
			C13-1234678 HeptaCDF	2012/07/19		83	%	40 - 130
			C13-123678 HexaCDD	2012/07/19		78	%	40 - 130
			C13-123678 HexaCDF	2012/07/19		76	%	40 - 130
			C13-12378 PentaCDD	2012/07/19		92	%	40 - 130
			C13-12378 PentaCDF	2012/07/19		84	%	40 - 130
			C13-2378 TetraCDD	2012/07/19		84	%	40 - 130
			C13-2378 TetraCDF	2012/07/19		89	%	40 - 130
			C13-OCDD	2012/07/19		83	%	40 - 130
			2,3,7,8-Tetra CDD	2012/07/19	ND, EDL=0.551		pg/L	
			1,2,3,7,8-Penta CDD	2012/07/19	ND, EDL=0.580		pg/L	
			1,2,3,4,7,8-Hexa CDD	2012/07/19	ND, EDL=0.519		pg/L	
			1,2,3,6,7,8-Hexa CDD	2012/07/19	ND, EDL=0.549		pg/L	
			1,2,3,7,8,9-Hexa CDD	2012/07/19	ND, EDL=0.494		pg/L	
			1,2,3,4,6,7,8-Hepta CDD	2012/07/19	0.8, EDL=0.514		pg/L	
			Octa CDD	2012/07/19	1, EDL=1.02		pg/L	
			Total Tetra CDD	2012/07/19	ND, EDL=0.551		pg/L	
			Total Penta CDD	2012/07/19	ND, EDL=0.580		pg/L	
			Total Hexa CDD	2012/07/19	ND, EDL=0.520		pg/L	
			Total Hepta CDD	2012/07/19	0.8, EDL=0.514		pg/L	
			2,3,7,8-Tetra CDF	2012/07/19	ND, EDL=0.518		pg/L	
			1,2,3,7,8-Penta CDF	2012/07/19	ND, EDL=0.548		pg/L	
			2,3,4,7,8-Penta CDF	2012/07/19	ND, EDL=0.522		pg/L	
			1,2,3,4,7,8-Hexa CDF	2012/07/19	ND, EDL=0.508		pg/L	
			1,2,3,6,7,8-Hexa CDF	2012/07/19	ND, EDL=0.502		pg/L	
			2,3,4,6,7,8-Hexa CDF	2012/07/19	ND, EDL=0.592		pg/L	
			1,2,3,7,8,9-Hexa CDF	2012/07/19	ND, EDL=0.616		pg/L	

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Quality Assurance Report (Continued)

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2912809	OBC	Method Blank	1,2,3,4,6,7,8-Hepta CDF	2012/07/19	ND, EDL=0.470		pg/L	
			1,2,3,4,7,8,9-Hepta CDF	2012/07/19	ND, EDL=0.583		pg/L	
			Octa CDF	2012/07/19	ND, EDL=1.03		pg/L	
			Total Tetra CDF	2012/07/19	ND, EDL=0.518		pg/L	
			Total Penta CDF	2012/07/19	ND, EDL=0.534		pg/L	
			Total Hexa CDF	2012/07/19	ND, EDL=0.550		pg/L	
			Total Hepta CDF	2012/07/19	ND, EDL=0.520		pg/L	
2918550	KKS	Spiked Blank	C13-1234678 HeptaCDD	2012/07/25		67	%	40 - 130
			C13-1234678 HeptaCDF	2012/07/25		73	%	40 - 130
			C13-123678 HexaCDD	2012/07/25		75	%	40 - 130
			C13-123678 HexaCDF	2012/07/25		70	%	40 - 130
			C13-12378 PentaCDD	2012/07/25		90	%	40 - 130
			C13-12378 PentaCDF	2012/07/25		81	%	40 - 130
			C13-2378 TetraCDD	2012/07/25		90	%	40 - 130
			C13-2378 TetraCDF	2012/07/25		82	%	40 - 130
			C13-OCDD	2012/07/25		74	%	40 - 130
			2,3,7,8-Tetra CDD	2012/07/25		104	%	80 - 140
			1,2,3,7,8-Penta CDD	2012/07/25		114	%	80 - 140
			1,2,3,4,7,8-Hexa CDD	2012/07/25		120	%	80 - 140
			1,2,3,6,7,8-Hexa CDD	2012/07/25		123	%	80 - 140
			1,2,3,7,8,9-Hexa CDD	2012/07/25		126	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDD	2012/07/25		122	%	80 - 140
			Octa CDD	2012/07/25		103	%	80 - 140
			2,3,7,8-Tetra CDF	2012/07/25		112	%	80 - 140
			1,2,3,7,8-Penta CDF	2012/07/25		115	%	80 - 140
			2,3,4,7,8-Penta CDF	2012/07/25		130	%	80 - 140
			1,2,3,4,7,8-Hexa CDF	2012/07/25		121	%	80 - 140
			1,2,3,6,7,8-Hexa CDF	2012/07/25		130	%	80 - 140
			2,3,4,6,7,8-Hexa CDF	2012/07/25		128	%	80 - 140
			1,2,3,7,8,9-Hexa CDF	2012/07/25		123	%	80 - 140
			1,2,3,4,6,7,8-Hepta CDF	2012/07/25		109	%	80 - 140
			1,2,3,4,7,8,9-Hepta CDF	2012/07/25		108	%	80 - 140
			Octa CDF	2012/07/25		101	%	80 - 140
		Method Blank	C13-1234678 HeptaCDD	2012/07/25		58	%	40 - 130
			C13-1234678 HeptaCDF	2012/07/25		64	%	40 - 130
			C13-123678 HexaCDD	2012/07/25		62	%	40 - 130
			C13-123678 HexaCDF	2012/07/25		57	%	40 - 130
			C13-12378 PentaCDD	2012/07/25		91	%	40 - 130
			C13-12378 PentaCDF	2012/07/25		71	%	40 - 130
			C13-2378 TetraCDD	2012/07/25		80	%	40 - 130
			C13-2378 TetraCDF	2012/07/25		68	%	40 - 130
			C13-OCDD	2012/07/25		59	%	40 - 130
			2,3,7,8-Tetra CDD	2012/07/25	ND, EDL=0.101		pg/g	
			1,2,3,7,8-Penta CDD	2012/07/25	ND, EDL=0.108		pg/g	
			1,2,3,4,7,8-Hexa CDD	2012/07/25	ND, EDL=0.109		pg/g	
			1,2,3,6,7,8-Hexa CDD	2012/07/25	ND, EDL=0.115		pg/g	
			1,2,3,7,8,9-Hexa CDD	2012/07/25	ND, EDL=0.103		pg/g	
			1,2,3,4,6,7,8-Hepta CDD	2012/07/25	0.18, EDL=0.100		pg/g	
			Octa CDD	2012/07/25	0.3, EDL=0.211		pg/g	
			Total Tetra CDD	2012/07/25	ND, EDL=0.101		pg/g	
			Total Penta CDD	2012/07/25	ND, EDL=0.108		pg/g	
			Total Hexa CDD	2012/07/25	ND, EDL=0.109		pg/g	
			Total Hepta CDD	2012/07/25	0.18, EDL=0.100		pg/g	
			2,3,7,8-Tetra CDF	2012/07/25	0.15, EDL=0.105		pg/g	
			1,2,3,7,8-Penta CDF	2012/07/25	ND, EDL=0.106		pg/g	

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SNC-Lavalin Inc, Environment Division
Attention: Jason Green
Client Project #: 508907
P.O. #: 008959
Site Location: NEW HARBOUR

Quality Assurance Report (Continued)

Maxxam Job Number: ZB297232

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2918550	KKS	Method Blank	2,3,4,7,8-Penta CDF	2012/07/25	ND, EDL=0.101		pg/g	
			1,2,3,4,7,8-Hexa CDF	2012/07/25	ND, EDL=0.106		pg/g	
			1,2,3,6,7,8-Hexa CDF	2012/07/25	ND, EDL=0.104		pg/g	
			2,3,4,6,7,8-Hexa CDF	2012/07/25	ND, EDL=0.123		pg/g	
			1,2,3,7,8,9-Hexa CDF	2012/07/25	ND, EDL=0.128		pg/g	
			1,2,3,4,6,7,8-Hepta CDF	2012/07/25	ND, EDL=0.104		pg/g	
			1,2,3,4,7,8,9-Hepta CDF	2012/07/25	ND, EDL=0.130		pg/g	
			Octa CDF	2012/07/25	ND, EDL=0.213		pg/g	
			Total Tetra CDF	2012/07/25	0.15, EDL=0.105		pg/g	
			Total Penta CDF	2012/07/25	ND, EDL=0.103		pg/g	
			Total Hexa CDF	2012/07/25	ND, EDL=0.115		pg/g	
			Total Hepta CDF	2012/07/25	ND, EDL=0.116		pg/g	
		RPD	2,3,7,8-Tetra CDD	2012/07/25	NC		%	25
			1,2,3,7,8-Penta CDD	2012/07/25	NC		%	25
			1,2,3,4,7,8-Hexa CDD	2012/07/25	NC		%	25
			1,2,3,6,7,8-Hexa CDD	2012/07/25	NC		%	25
			1,2,3,7,8,9-Hexa CDD	2012/07/25	NC		%	25
			1,2,3,4,6,7,8-Hepta CDD	2012/07/25	23.0		%	25
			Octa CDD	2012/07/25	19.5		%	25
			Total Tetra CDD	2012/07/25	5.8		%	25
			Total Penta CDD	2012/07/25	2.8		%	25
			Total Hexa CDD	2012/07/25	19.4		%	25
			Total Hepta CDD	2012/07/25	25.0 (2)		%	25
			2,3,7,8-Tetra CDF	2012/07/25	NC		%	25
			1,2,3,7,8-Penta CDF	2012/07/25	NC		%	25
			2,3,4,7,8-Penta CDF	2012/07/25	NC		%	25
			1,2,3,4,7,8-Hexa CDF	2012/07/25	NC		%	25
			1,2,3,6,7,8-Hexa CDF	2012/07/25	NC		%	25
			2,3,4,6,7,8-Hexa CDF	2012/07/25	NC		%	25
			1,2,3,7,8,9-Hexa CDF	2012/07/25	NC		%	25
			1,2,3,4,6,7,8-Hepta CDF	2012/07/25	44.8 (2)		%	25
			1,2,3,4,7,8,9-Hepta CDF	2012/07/25	NC		%	25
			Octa CDF	2012/07/25	NC		%	25
			Total Tetra CDF	2012/07/25	1.4		%	25
			Total Penta CDF	2012/07/25	11.2		%	25
			Total Hexa CDF	2012/07/25	27.5 (2)		%	25
			Total Hepta CDF	2012/07/25	38.4 (2)		%	25
2923223	AGU	Method Blank	Confirmation C13-2378 TetraCDF	2012/07/27		97	%	40 - 135
			Confirmation 2,3,7,8-Tetra CDF	2012/07/27	ND, EDL=0.10		pg/g	

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 blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) Matrix Spike: <10 % of compounds in multi-component analysis in violation.
(2) Duplicate results exceeded RPD acceptance criteria. This may be due to sample heterogeneity.

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Validation Signature Page

Maxxam Job #: B297232

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Kay Shaw, C. Chem, Scientific Specialist, HRMS Services

Kevin Macdonald, Inorganics Supervisor

Owen Cosby, BSc.C.Chem, Supervisor, HRMS Services

Rose Macdonald, Scientific Specialist (Organics)

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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APPENDIX E

QA/QC Analytical Result Tables

Table E1: QA/QC Summary of Metals Analytical Results in Sediment (mg/kg)

Sample ID:	SED-DENNY'S POND	SED-DENNY'S POND-1 (Field	Average Value	Absolute Difference	Relative Percent Difference (%)
Sample Date:	2012/06/18	2012/06/18			
Aluminum	25000	26000	25500.0	1000.0	3.9
Antimony	ND	ND	-	-	-
Arsenic	19	17	18.0	2.0	11.1
Barium	47	41	44.0	6.0	13.6
Beryllium	2.6	2.8	2.7	0.2	7.4
Bismuth	ND	ND	-	-	-
Boron	ND	ND	-	-	-
Cadmium	0.64	0.64	0.6	0.0	0.0
Chromium	11	12	11.5	1.0	8.7
Cobalt	75	44	59.5	31.0	52.1
Copper	18	19	18.5	1.0	5.4
Iron	45000	42000	43500.0	3000.0	6.9
Lead	21	25	23.0	4.0	17.4
Lithium	3.8	4.3	4.1	0.5	12.3
Manganese	2600	2500	2550.0	100.0	3.9
Mercury	0.27	0.26	0.3	0.0	3.8
Molybdenum	2.0	ND	-	-	-
Nickel	9.4	10	9.7	0.6	6.2
Rubidium	2.5	2.5	2.5	0.0	0.0
Selenium	2.3	2.1	2.2	0.2	9.1
Silver	ND	ND	-	-	-
Strontium	11	10	10.5	1.0	9.5
Thallium	0.11	ND	-	-	-
Tin	ND	ND	-	-	-
Uranium	1.3	1.2	1.3	0.1	8.0
Vanadium	38	38	38.0	0.0	0.0
Zinc	100	100	100.0	0.0	0.0
				Mean Relative Percent Difference	**9.0%**

Table E2: QA/QC Summary of BTEX/TPH Analyitcal Results in Sediment (mg/kg)

Sample ID:	SED-DENNY'S POND	SED-DENNY'S POND-1 (Field	Average Value	Absolute Difference	Relative Percent Difference (%)
Sample Date:	2012/06/18	2012/06/18			
Benzene	1.7	ND	-	-	-
Toluene	14	2.0	8.0	12.0	150.0
Ethylbenzene	9.2	0.93	5.1	8.3	163.3
Total Xylene	52	5.1	28.6	46.9	164.3
TPH (C_6-C_{10})	17	ND	-	-	-
TPH (>C_{10}-C_{21})	ND	ND	-	-	-
TPH (>C_{21}-<C_{32})	150	ND	-	-	-
Modified TPH (C_6-C_{32})	170	ND	-	-	-
				Mean Relative Percent Difference	**159.2%**

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www.snclavalin.com

SNC-Lavalin Inc.
Environment Division
Park Lane Terraces
Suite 200
5657 Spring Garden Road
Halifax, Nova Scotia
B3J 3R4 Canada
Tel.: (902) 492-4544
Fax: (902) 492-4540