

FOX - C DEW Line Site
Summary of Analytical Data
Garage Dump - Surface Water

Table 13.1: Metals in Water

PARAMETER	UNIT	CRITERIA	Total Metals		Dissolved Metals		Dissolved Metals
			US-1045	US-1045	US-1045	USGW1	
Aluminum	mg/L	0.005	209	0.06	0.007	0.007	0.007
Antimony	mg/L	-	<0.004	0.0015	0.0012	0.0013	0.0013
Arsenic	mg/L	0.005	0.039	<0.0002	0.0004	<0.0002	<0.0002
Barium	mg/L	-	1.13	0.004	0.026	0.005	0.005
Beryllium	mg/L	-	0.0088	<0.0001	0.0001	<0.0001	<0.0001
Bismuth	mg/L	-	<0.01	<0.0005	<0.0005	<0.0005	<0.0005
Boron	mg/L	-	<0.04	0.013	0.011	0.012	0.012
Cadmium	mg/L	0.000017	0.0017	<0.00001	0.00004	<0.00001	<0.00001
Chromium	mg/L	-	0.57	<0.0005	0.0094	<0.0005	<0.0005
Cobalt	mg/L	-	0.11	<0.0001	0.0015	<0.0001	<0.0001
Copper	mg/L	0.002	0.472	0.003	0.006	<0.001	<0.001
Iron	mg/L	0.3	267	-	4.2	-	-
Lead	mg/L	0.001	0.177	<0.0001	0.0043	<0.0001	<0.0001
Lithium	mg/L	-	0.297	<0.001	0.005	<0.001	<0.001
Manganese	mg/L	-	2.28	-	0.035	-	-
Mercury	mg/L	-	<0.0002	-	<0.0002	-	-
Molybdenum	mg/L	0.073	<0.02	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	0.025	0.336	<0.0005	0.0043	<0.0005	<0.0005
Selenium	mg/L	0.001	<0.004	<0.0002	0.0003	<0.0002	<0.0002
Silicon	mg/L	-	118	-	6.35	-	-
Silver	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	0.11	0.019	0.025	0.022	0.022
Sulphur	mg/L	-	2.5	-	2.39	-	-
Thallium	mg/L	0.0008	0.0049	<0.00005	0.00008	<0.00005	<0.00005
Tin	mg/L	-	<0.02	<0.001	<0.001	<0.001	<0.001
Titanium	mg/L	-	18.9	0.0034	0.317	<0.0005	<0.0005
Uranium	mg/L	-	0.045	<0.0005	0.0006	<0.0005	<0.0005
Vanadium	mg/L	-	0.542	0.0002	0.0086	<0.0001	<0.0001
Zinc	mg/L	0.03	0.715	<0.001	0.013	<0.001	<0.001

Notes:

1. Criteria based on CCME Freshwater Aquatic Life Guideline

Table 13.2: PHC Concentrations in Surface Water

PARAMETER	UNIT	CRITERIA	US-1045	USGW1
Benzene	mg/L	0.37	<0.001	<0.001
Toluene	mg/L	0.002	<0.001	<0.001
Ethylbenzene	mg/L	0.09	<0.001	<0.001
Total Xylenes (m,p,o)	mg/L	-	0.002	0.002
F1 C6-C10	mg/L	-	0.06	0.09
F1 -BTEX	mg/L	-	0.06	0.09
F2 C10-C16	mg/L	-	<0.1	<0.1
F3 C16-C34	mg/L	-	2	<0.1
F3+ C34+	mg/L	-	<0.1	<0.1
ph	-	6.5-9	7.1	7.1
Hardness	mg/L	-	13.6	15.1
Ca ²⁺	mg/L	-	4.7	5.1

Notes:

1. Criteria based on CCME Freshwater Aquatic Life Guideline

2. Exceedance indicated with shading

Table 13.3: PCB Concentrations in Surface Water

PARAMETER	UNIT	CRITERIA	US-1045	USGW1
Aroclor 1016	ug/L	-	<0.1	<0.1
Aroclor 1221	ug/L	-	<0.1	<0.1
Aroclor 1232	ug/L	-	<0.1	<0.1
Aroclor 1242	ug/L	-	<0.1	<0.1
Aroclor 1248	ug/L	-	<0.1	<0.1
Aroclor 1254	ug/L	-	<0.1	<0.1
Aroclor 1260	ug/L	-	<0.1	<0.1
Aroclor 1262	ug/L	-	<0.1	<0.1
Aroclor 1268	ug/L	-	<0.1	<0.1
Total PCBs	ug/L	0.1	<0.1	<0.1

FOX - C DEW Line Site
Summary of Analytical Data
Upper Station POL Storage Facility

Table 14.1: PHC Concentrations in Soils

PARAMETER	CRITERIA	US-1056	US-1057	US-1058	US-1059	US-1060	US-1061
Depth:	(ppm)	0 cm	10 cm	30-40 cm	20-30 cm	20 cm	20 cm
Benzene	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	0.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	1.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)	1	<0.02	<0.02	0.03	<0.02	<0.02	<0.02
F1 C6-C10	260	<1	1	57	29	1	2
F2 C10-C16	900	938	2050	2820	2920	1130	2630
F3 C16-C34	800	1070	819	181	229	188	1990
F4 C34-C50	5600	146	25	<10	<10	<10	73

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil
- 2) Exceedances indicated with shading

Table 14.2: PAH Concentrations in Soils

PARAMETER	CRITERIA	US-1056	US-1058	US-1059	US-1060	US-1061
Depth:	(ppm)	0 cm	30-40 cm	20-30 cm	20 cm	20 cm
Naphthalene	0.6	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	-	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	-	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	-	<0.05	0.46	<0.05	<0.05	<0.05
Phenanthrene	5	<0.05	0.27	<0.05	<0.05	<0.05
Anthracene	-	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	-	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	10	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	1	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	0.7	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	1	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	-	<0.05	<0.05	<0.05	<0.05	<0.05
CB(a)P	-	<0.05	<0.05	<0.05	<0.05	<0.05

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use

Table 14.3: Storage Tank Contents
Hydrocarbon Concentrations in Water

PARAMETER	CRITERIA	Tank
	(ppm)	Composite
Benzene	0.37	<0.001
Toluene	0.002	<0.001
Ethylbenzene	0.09	<0.001
Xylene	-	0.002
F1	-	0.07
F2	-	0.5
F3	-	0.3
F4	-	<0.1

NOTES:

- 1) Criteria based on CCME Freshwater Aquatic Life

FOX - C DEW Line Site
Summary of Analytical Data
Warehouse AST and Surface Stains

Table 15.1 PCB Concentrations in Soils

PARAMETER	CRITERIA (ppm)	US-1063 (Comp) 0-20 cm	US-1063 40-50 cm	NW Stains 0-10 cm
Depth:				
Aroclor 1016	-	<0.1	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1	<0.1
Aroclor 1248	-	<0.1	<0.1	<0.1
Aroclor 1254	-	<0.1	<0.1	0.5
Aroclor 1260	-	<0.1	<0.1	<0.1
Aroclor 1262	-	<0.1	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1	<0.1
Total PCBs	1/5	<0.1	<0.1	0.5

NOTES:

1) Criteria based on DCC Tier 1 (1 ppm) and DCC Tier 2 (5 ppm) for PCBs

Table 15.2: PHC Concentrations in Soils

PARAMETER	CRITERIA (ppm)	US-1062 0-30 cm	US-1063 (Comp) 0-20 cm	US-1063 40-50 cm	US-1069 50 cm	US-1070 50 cm	NW Stains 0-10 cm
Depth:							
Benzene	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	0.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	1.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)	1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
F1 C6-C10	260	26	2	2	46	1	<1
F2 C10-C16	900	152	42	165	2770	29	406
F3 C16-C34	800	152	29200	16500	165	143	406
F4 C34-C50	5600	<10	10500	3420	11	34	390

NOTES:

1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use

2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil

3) Exceedances indicated with shading

FOX - C DEW Line Site
Summary of Analytical Data
Warehouse AST and Surface Stains

Table 15.3 PAH Concentrations in Soils

PARAMETER	CRITERIA	US-1062	US-1063 (Comp)	US-1063	US-1069	US-1070	NW Stains
Depth:	(ppm)	0-30 cm	0-20 cm	40-50 cm	50 cm	50 cm	0-10 cm
Naphthalene	0.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	-	<0.05	<0.05	<0.05	0.17	<0.05	<0.05
Phenanthrene	5	<0.05	<0.05	<0.05	0.06	<0.05	0.06
Anthracene	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	-	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
Pyrene	10	<0.05	<0.05	<0.05	<0.05	<0.05	0.16
Benzo(a)anthracene	1	<0.05	<0.05	<0.05	<0.05	<0.05	0.05
Chrysene	-	<0.05	0.22	0.6	<0.05	<0.05	0.28
Benzo(b)fluoranthene	1	<0.05	<0.05	<0.05	<0.05	<0.05	0.1
Benzo(j)fluoranthene	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	1	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
Benzo(a)pyrene	0.7	<0.05	<0.05	<0.05	<0.05	<0.05	0.09
Indeno(1,2,3-c,d)pyrene	1	<0.05	<0.05	<0.05	<0.05	<0.05	0.14
Dibenzo(a,h)anthracene	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	-	<0.05	<0.05	<0.05	<0.05	<0.05	0.26
CB(a)P	-	<0.05	<0.05	<0.05	<0.05	<0.05	0.14

NOTES:

1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use

FOX - DEW Line Site
Summary of Analytical Results
Antenna Base Area - Perched Groundwater

Table 16.1: Metals in Water

PARAMETER	UNIT	CRITERIA	Total Metals US-1063	Dissolved Metals US-1063
Aluminum	mg/L	0.005	81.8	0.357
Antimony	mg/L	-	<0.002	<0.0002
Arsenic	mg/L	0.005	0.013	<0.0002
Barium	mg/L	-	0.524	0.006
Beryllium	mg/L	-	0.0034	<0.0001
Bismuth	mg/L	-	<0.005	<0.0005
Boron	mg/L	-	<0.02	0.003
Cadmium	mg/L	0.000017	0.00096	0.00005
Chromium	mg/L	-	0.238	<0.0005
Cobalt	mg/L	-	0.0466	<0.0001
Copper	mg/L	0.002	0.2	0.022
Iron	mg/L	0.3	112	-
Lead	mg/L	0.001	0.0843	0.0004
Lithium	mg/L	-	0.122	<0.001
Manganese	mg/L	-	0.887	-
Mercury	mg/L	-	<0.0002	-
Molybdenum	mg/L	0.073	<0.01	<0.001
Nickel	mg/L	0.025	0.127	0.0006
Selenium	mg/L	0.001	<0.002	<0.0002
Silicon	mg/L	-	64.1	-
Silver	mg/L	0.0001	<0.001	<0.0001
Strontium	mg/L	-	0.062	0.009
Sulphur	mg/L	-	1.48	-
Thallium	mg/L	0.0008	0.0024	<0.00005
Tin	mg/L	-	<0.01	<0.001
Titanium	mg/L	-	7.96	0.0179
Uranium	mg/L	-	0.016	<0.0005
Vanadium	mg/L	-	0.238	0.0007
Zinc	mg/L	0.03	0.519	0.005

Notes:

Bold Values exceed CCME FWAL criteria

Table 16.2: PHC Concentrations in Water

PARAMETER	UNIT	CRITERIA	US-1063
Benzene	mg/L	0.37	<0.001
Toluene	mg/L	0.002	0.002
Ethylbenzene	mg/L	0.09	<0.001
Total Xylenes (m.p.o)	mg/L	-	0.004
F1 C6-C10	mg/L	-	0.2
F1 -BTEX	mg/L	-	0.2
F2 C10-C16	mg/L	-	1.5
F3 C16-C34	mg/L	-	331
F3+ C34+	mg/L	-	44.3
ph	-	6.5-9	6.5
Hardness	mg/L	-	6.8
Ca ⁺⁺	mg/L	-	2.1

Notes:

1. Criteria based on CCME Freshwater Aquatic Life Guideline

2. Exceedance indicated with shading

Table 16.3: PCB Concentrations in Water

PARAMETER	UNIT	CRITERIA	US-1063
Aroclor 1016	ug/L	-	<0.1
Aroclor 1221	ug/L	-	<0.1
Aroclor 1232	ug/L	-	<0.1
Aroclor 1242	ug/L	-	<0.1
Aroclor 1248	ug/L	-	<0.1
Aroclor 1254	ug/L	-	<0.1
Aroclor 1260	ug/L	-	0.4
Aroclor 1262	ug/L	-	<0.1
Aroclor 1268	ug/L	-	<0.1
Total PCBs	ug/L	0.1	0.4

Notes:

1. Criteria based on former CCME guideline, guideline is no longer recommended

Table 17.1: Metals Concentrations in Soils

PARAMETER	Criteria	US-1053	US-1054	US-1055	US-1065	US-1066	US-1067	US-1068
Depth:	(ppm)	0-20 cm	0 cm	35-40 cm	40-50 cm	50-60 cm	50-60 cm	40-50 cm
Antimony	20	1.8	1.4	1.3	1.2	1.4	1.5	1.2
Arsenic	30*	1.9	1.3	1.5	1.7	1.6	1.9	2
Barium	500	63.1	76.7	175	44.2	53.6	60.6	43.6
Beryllium	12	0.78	0.45	0.6	0.33	0.28	0.55	0.26
Boron	2	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1
Cadmium	5*	0.06	0.07	0.14	0.05	0.09	0.06	0.05
Chromium	250*	49.3	44	42.9	30.9	35.8	45	29.4
Cobalt	50*	6.66	5.17	6.25	4.84	4.66	6.76	4.34
Copper	100*	37.2	24.2	29.2	24.5	19	32.9	17.8
Lead	200/500 ²	8.3	15.6	8.3	6.4	5.7	6.8	6
Mercury	6.6	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	10	0.9	0.6	0.7	0.8	0.7	1	0.7
Nickel	100*	24.4	18.5	28.8	16	16.4	23.4	14.7
Selenium	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3
Silver	20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Thallium	1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Tin	50	2	2.2	2.1	2.1	2.3	2.1	1.9
Vanadium	130	42.3	36.1	35.9	27.2	30.7	39.1	26.2
Zinc	500*	54.2	56.1	56.5	36.1	42.4	51.7	34.7

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use except as noted below
- 2) * Indicates criteria based on DCC Tier 2 Criteria
- 3) Lead criteria based on DCC Tier 1 (200 ppm) and DCC Tier 2 (500 ppm)

Table 17.2: PCB Concentrations in Soils

PARAMETER	CRITERIA	US-1066	US-1067
Depth:	(ppm)	50-60 cm	50-60 cm
Aroclor 1016	-	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1
Aroclor 1248	-	<0.1	<0.1
Aroclor 1254	-	<0.1	<0.1
Aroclor 1260	-	<0.1	<0.1
Aroclor 1262	-	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1
Total PCBs	1/5	<0.1	<0.1

NOTES:

- 1) Criteria based on DCC Tier 1 (1 ppm) and DCC Tier 2 (5 ppm) for PCBs

Table 17.3: PHC Concentrations in Soils

PARAMETER	CRITERIA	US-1066	US-1067
Depth:	(ppm)	50-60 cm	50-60 cm
Benzene	0.5	<0.02	<0.02
Toluene	0.8	<0.02	<0.02
Ethylbenzene	1.2	<0.02	<0.02
Xylene	1	<0.02	<0.02
F1 C6-C10	260	<1	<1
F2 C10-C16	900	<10	<10
F3 C16-C34	800	32	<10
F4 C34-C50	5600	10	<10

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil

FOX - C DEW Line Site
Summary of Analytical Data
Inuit House Dump - Perched Groundwater

Table 18.1: Metals in Water

PARAMETER	UNIT	CRITERIA	Total Metals US-1067	Dissolved Metals US-1067
Aluminum	mg/L	0.005	1.560	0.136
Antimony	mg/L	-	<0.008	0.0006
Arsenic	mg/L	0.005		<0.0002
Barium	mg/L	-	8.76	0.016
Beryllium	mg/L	-	0.0858	<0.0001
Bismuth	mg/L	-	0.022	<0.0005
Boron	mg/L	-	0.14	- 0.038
Cadmium	mg/L	0.000017	0.000000	0.000000
Chromium	mg/L	-	4.72	<0.0005
Cobalt	mg/L	-	0.876	0.0019
Copper	mg/L	0.002-0.0046	0.000000	0.015
Iron	mg/L	0.3	1.660	-
Lead	mg/L	0.001		<0.0001
Lithium	mg/L	-	2.32	<0.001
Manganese	mg/L	-	14.1	-
Mercury	mg/L	-	0.001	-
Molybdenum	mg/L	0.073	0.13	<0.001
Nickel	mg/L	0.025	2.03	<0.0005
Selenium	mg/L	0.001	<0.008	<0.0002
Silicon	mg/L	-	304	-
Silver	mg/L	0.0001	0.01	<0.0001
Strontium	mg/L	-	0.29	0.022
Sulphur	mg/L	-	17.8	-
Thallium	mg/L	0.0008	0.000000	<0.00005
Tin	mg/L	-	0.041	<0.001
Titanium	mg/L	-	158	<0.0005
Uranium	mg/L	-	0.305	<0.0005
Vanadium	mg/L	-	4.26	<0.0001
Zinc	mg/L	0.03		<0.001

Notes:

- Criteria based on CCME Freshwater Aquatic Life Guideline

Table 18.2: PHC Concentrations in Water

PARAMETER	UNIT	CRITERIA	US-1067
Benzene	mg/L	0.37	<0.001
Toluene	mg/L	0.002	<0.001
Ethylbenzene	mg/L	0.09	<0.001
Total Xylenes (m,p,o)	mg/L	-	0.002
F1 C6-C10	mg/L	-	0.1
F1 -BTEX	mg/L	-	0.1
F2 C10-C16	mg/L	-	<0.1
F3 C16-C34	mg/L	-	<0.1
F3+ C34+	mg/L	-	<0.1
ph	-	6.5-9	6
Hardness	mg/L	-	15.6
Ca ⁺⁺	mg/L	-	5.2

Notes:

- Criteria based on CCME Freshwater Aquatic Life Guideline
- Exceedance indicated with shading

Table 18.3: PCB Concentrations in Water

PARAMETER	UNIT	CRITERIA	US-1067
Aroclor 1016	ug/L	-	<0.1
Aroclor 1221	ug/L	-	<0.1
Aroclor 1232	ug/L	-	<0.1
Aroclor 1242	ug/L	-	<0.1
Aroclor 1248	ug/L	-	<0.1
Aroclor 1254	ug/L	-	1.7
Aroclor 1260	ug/L	-	<0.1
Aroclor 1262	ug/L	-	<0.1
Aroclor 1268	ug/L	-	<0.1
Total PCBs	ug/L	0.1	1.7

Notes:

- Criteria based on former CCME guideline, guideline is no longer recommended

FOX - C DEW Line Site
Summary of Analytical Data
Biological Sampling

Table 19.1: Physical Properties of Fish Collected in Water Lake

PARAMETER	UNIT	Fish #1	Fish #2	Fish #3	Fish #4	Fish #5
Length	m	0.648	0.457	0.533	0.381	0.508
Weight	kg	4	1.5	2.3	2.3	1.8

Table 19.2: PCB Concentrations in Fish Tissue Samples

PARAMETER	UNIT	CRITERIA	Fish #1	Fish #2	Fish #3	Fish #4	Fish #5
Trichlorobiphenyls	ng/g	-	0.25	ND	0.19	0.121	0.12
Tetrachlorobiphenyls	ng/g	-	0.73	0.2	0.5	0.26	0.24
Pentachlorobiphenyls	ng/g	-	0.87	ND	0.34	ND	ND
Hexachlorobiphenyls	ng/g	-	0.77	0.2	0.34	ND	ND
Heptachlorobiphenyls	ng/g	-	ND	ND	ND	ND	ND
Octachlorobiphenyls	ng/g	-	ND	ND	ND	ND	ND
Nonachlorobiphenyls	ng/g	-	ND	ND	ND	ND	ND
Decachlorobiphenyls	ng/g	-	ND	ND	ND	ND	ND
Total PCBs	ng/g	-	2.6	0.4	1.37	0.38	0.36

Notes:

1. Criteria based on CCME Environmental Quality Guidelines for Tissue Residue

FOX - C DEW Line Site
Summary of Analytical Data
Biological Sampling

Table 19.3: Total Metal Concentrations in Fish Tissue Samples

PARAMETER	UNIT	CRITERIA	Fish #1	Fish #2	Fish #3	Fish #4	Fish #5
Aluminum	ug/g	-	<0.2	<0.25	<0.25	<0.2	<0.25
Antimony	ug/g	-	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	ug/g	-	1.75	0.87	0.51	0.43	0.77
Barium	ug/g	-	<0.05	<0.05	<0.05	<0.05	<0.05
Beryllium	ug/g	-	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth	ug/g	-	<0.025	<0.025	<0.025	<0.025	<0.025
Cadmium	ug/g	-	0.0046	0.005	0.008	0.0058	0.0036
Calcium	ug/g	-	53	67	64	61	63
Chromium	ug/g	-	0.039	0.068	0.044	0.061	0.037
Cobalt	ug/g	-	0.007	0.009	0.009	0.008	0.017
Copper	ug/g	-	0.36	0.44	0.38	0.46	0.37
Iron	ug/g	-	4.3	2.2	3	3.8	2.5
Lead	ug/g	-	0.028	0.013	0.012	0.012	0.011
Lithium	ug/g	-	<0.05	<0.05	<0.05	<0.05	<0.05
Manganese	ug/g	-	274	268	277	262	276
Manganese	ug/g	-	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum	ug/g	-	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	ug/g	-	<0.02	0.025	0.048	0.026	<0.02
Phosphorus	ug/g	-	2760	2930	2810	2820	2830
Potassium	ug/g	-	4110	4370	4060	4250	4270
Selenium	ug/g	-	0.45	0.48	0.45	0.38	0.37
Silicon	ug/g	-	<2	<2	<2	3.3	<2
Silver	ug/g	-	<0.005	<0.005	<0.005	<0.005	<0.005
Sodium	ug/g	-	472	388	376	360	359
Strontium	ug/g	-	0.22	0.25	0.22	0.25	0.23
Tin	ug/g	-	0.7	0.75	0.75	0.73	0.72
Titanium	ug/g	-	0.323	0.296	0.345	0.319	0.282
Uranium	ug/g	-	<0.025	<0.025	<0.025	<0.025	<0.025
Vanadium	ug/g	-	0.084	0.066	0.078	0.072	0.078
Zinc	ug/g	-	5.02	5.54	5.09	5.18	4.93
Zirconium	ug/g	-	<0.05	<0.05	<0.05	<0.05	<0.05
Mercury	ug/g	33	0.085	0.027	0.035	0.037	0.027

Notes:

1. Criteria based on CCME Environmental Quality Guidelines for Tissue Residue

FOX - C DEW Line Site
Summary of Analytical Data
QA/QC Summary

Table 20.1 : Summary of QA/QC Results for Field Duplicates

PAHs			
Parameter	Sample ID		RPD
	MS - 1086	MS - 1086	
PAHs	0.07	0.06	15
Naphthalene	0.23	0.22	4
Acenaphthylene	<0.05	<0.05	0
Acenaphthene	0.11	0.11	0
Fluorene	0.83	0.76	9
Phenanthrene	<0.05	<0.05	0
Anthracene	0.07	0.05	33
Fluoranthene	0.12	0.08	40
Pyrene	0.09	0.06	40
Benzo(a)anthracene	0.24	0.23	4
Chrysene	0.05	0.15	100
Benzo(b)fluoranthene	<0.05	<0.05	0
Benzo(k)fluoranthene	<0.05	<0.05	0
Benzo(a)pyrene	<0.05	<0.05	0
Indeno(1,2,3-c,d)pyr	<0.05	<0.05	0
Dibenzo(a,h)anthrac	<0.05	<0.05	0
Benzo(g,h,i)perylene	<0.05	<0.05	0
CB(a)P	41	58	34

Metals			
Parameter	Sample ID		RPD
Metals	BA-1020	BAT-1013	
Antimony	3.5	3.3	6
Arsenic	4.3	4.2	2
Barium	141	134	5
Beryllium	0.58	0.55	5
Boron	0.8	0.6	29
Cadmium	0.08	0.1	22
Chromium	82.8	76.2	8
Hexavalent Chromium	0.1	0.1	0
Cobalt	9.77	9.32	5
Copper	32	30.4	5
Lead	10.8	10.4	4
Mercury	<0.01	<0.01	0
Molybdenum	1.1	1	10
Nickel	35.2	32.8	7
Selenium	<0.2	<0.2	0
Silver	<0.05	<0.05	0
Thallium	<0.3	<0.3	0
Tin	2.6	2.7	4
Vanadium	72.2	69	5
Zinc	83.3	78.8	6

PCBs				
Parameter	Sample ID		RPD	
	US-1037	US-1037		
PCBs				
Aroclor 1016	<0.1	<0.1	0	
Aroclor 1221	<0.1	<0.1	0	
Aroclor 1232	<0.1	<0.1	0	
Aroclor 1242	<0.1	<0.1	0	
Aroclor 1248	<0.1	<0.1	0	
Aroclor 1254	0.3	0.1	100	
Aroclor 1260	<0.1	<0.1	0	
Aroclor 1262	<0.1	<0.1	0	
Aroclor 1268	<0.1	<0.1	0	
Total PCBs	0.3	0.1	100	

Hydrocarbons			
Parameter	Sample ID		RPD
BTEX	BAT-1010	BAT-1010	
Benzene	<0.02	<0.02	0
Toluene	<0.02	<0.02	0
Ethylbenzene	<0.02	<0.02	0
Total Xylenes (m,p,o)	<0.02	<0.02	0
F1 C6-C10	37	37	0
F2 C10-C16	2140	2890	30
F3 C16-C34	59	462	155
FA C34-C50	10	23	79

Note Bold values exceeded recommended Relative Percent Difference (RPD), EPA 1988

FOX - C DEW Line Site
Summary of Hazardous Materials
Asbestos Containing Materials/ PCB Containing Paint

Table 21.1 Inventory of PCB Containing Paint

Sample Locations presented on Figures 7.1 and 7.2

Sample ID	Sample Location	Substrate	Total PCBs
			Criteria
			Detection Limit
			mg/kg
US-MTPS-01	Paint sample taken from Red compressed tanks in MT-01	Steel	4750
US-MTPS-02	Paint on day tanks inside MT-01	Steel	3910
US-MTPS-03	Paint taken from day tank supports	Steel	4660
US-MTPS-04	Paint on shelving unit in MT-01	Steel	3520
US-MTPS-05	Paint on concrete floor in MT-02	Concrete	14000
US-MTPS-05C	Paint in bathroom in MT-04	Wood	42800
US-MTPS-06	Blue Paint in Bathroom MT-04	Wood	9070
US-MTPS-06A	Paint on electrical shelving in MT-06	Steel	3.3
US-MTPS-07	Paint on concrete floor in MT-07	Concrete	11700
US-WPS-11	Blue paint on stairs in W2	Wood	3890
US-GPS-14	Interior wall of Garage, paint on metal cladding	Metal Cladding	18000
US-GPS-15	Paint on tracked ATV in garage	Steel	1660
US-GCS-16	Oil stained concrete in garage	Concrete	35.9
US-GPS-17	Paint on heating unit in Furnace room of garage	Steel	352
US-MTEPS-20	Paint from paint in paint shed NW of Garage	Paint Cans	2.5
US-IHPS-21	Paint from wood in Inuit house	Wood	109
US-ANTPS-22	Paint on Antenna	Steel	2.2
US-2HP-23	Paint from wood of second storage shed east of warehouse	Wood	8
MS-HHPS-24	Paint from hoop house wood at the mid station	Wood	50.8
WL-HUT	Paint from wood of hut at Water lake beach	Wood	58.8

Note: Shaded values exceed CEPA criteria of 50 ppm

Table 21.2 Inventory of Asbestos Containing Materials

Sample ID	Sample Location	Type	Chrysotile	Amosite
		Criteria	1	1
			%	%
US-MTAS-01	Insulation on exterior of water heater tank in MT-01		30	0
US-MTAS-02	1" pipe insulation with no black mastic paper (Type II pipe insulation)		90	0
US-MTAS-03	Piping insulation elbow		20	
US-MTAS-04	2 " pipe insulation with black paper (Type 1 pipe insulation) in module rain		30	0
US-MTAS-05	Fire door insulation on fire door in MT-05		30	0
USW4AS-06A	Exposed insulation on heating duct in W4		0	50
US-GAS-07	Exposed insulation on heating duct in G-2		30	1

Note: Shaded values contain asbestos fiber concentrations greater than 1%

FOX - C DEW Line Site
Summary of Analytical Data
Barrel Sampling Program

Table 22.1: Barrel Fluid Identification

Sample ID	Location	Fluid Identified
MS Barrel # 3	Mild Station Barrel	Lube Oil
8	Barrel from Braided River	Condensate
1	Barrel from Braided River	Condensate
9	Barrel from Braided River	Condensate
MS Barrel # 2	Mild Station Barrel	Diesel
US-BS-01	Upper Station Leaking Barrels South of Garage	Lube Oil
BA-BD-01	Beach Area Barrel Dump #1	Mainly Water (may contain product)
MS Barrel # 1	Mild Station Barrel	Mainly Water (may contain product)
3	Barrel from Braided River	Mainly Water (may contain product)
2	Barrel from Braided River	Mainly Water (may contain product)

Table 22.3: PCB Concentrations Lube Oil Upper Station

PARAMETER	CRITERIA	US-BS-01
PCBs		
Aroclor 1016	-	<0.5
Aroclor 1221	-	<0.5
Aroclor 1232	-	<0.5
Aroclor 1242	-	<0.5
Aroclor 1248	-	<0.5
Aroclor 1254	-	<0.5
Aroclor 1260	-	<0.5
Aroclor 1262	-	<0.5
Aroclor 1268	-	<0.5
Total PCBs	1.3	<0.5

Table 22.2: Metals Concentrations Lube Oil Upper Station

PARAMETER	CRITERIA	US-BS-01
Arsenic	12	<2
Barium	500	0.839
Beryllium	4	<0.02
Boron	2	-
Cadmium	5	<0.02
Chromium	64	0.769
Hexavalent Chromium	0.4	-
Cobalt	40	<0.05
Copper	63	2.32
Lead	140	1.3
Mercury	6.6	-
Molybdenum	10	<0.5
Nickel	50	4.3
Selenium	1	<5
Silver	20	-
Thallium	1	-
Tin	50	<0.5
Vanadium	130	0.084
Zinc	200	8.8

APPENDIX E

LABORATORY REPORTS

Control Number **E** 94775

Environmental Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Norwest location and proper sampling protocol

Shipping Address: Company: Earth Tech Canada Inc. Address: 17203 - 103 Avenue Edmonton, AB T5S 1J4		Copy of Report To: Company: Address:		Copy of invoice: Mail invoice to this address for approval	
QA/QC Report ☒		Report Result:		Report Result:	
Attention: Environmental Group Phone: (780) 488-6800 Fax: (780) 488-2121 Cell: e-mail: gwoollett@earthtech.ca		Attention: Phone: 717-2655 Fax: Cell: e-mail:		Attention: Phone: Fax: Cell: e-mail:	

Information to be included on Report and Invoice Project ID: _____ Project Name: _____ Project Location: _____ Legal Location: _____ PO#: 131- 10777 1739 Proj. Acct. Code: _____ Agreement ID: 40857	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples: Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated ☐ or ☐	Sample Custody (Please Print) Sampled by: <u>NAM</u> Date: <u>09/09/04</u> Company: <u>ETC</u> Signature: <u>XI. M. Z.</u>
	Date Required: _____ Signature: _____ Norwest Authorization: _____	Relinquished by: _____ Company: _____ Date: _____ Waybill number: _____
		Received by: _____ Company: _____ Date: _____

[illegible]

NOTE: All hazardous samples must be labelled according to WHMIS guidelines.
Accredited by the Standards Council of Canada for specific tests

Page ____ of ____
##

www.008 (08/01)

Analytical Report

Norwest Labs
7217 Roper Road
Edmonton, AB. T6B 3J4
Phone: (780) 438-5522
Fax: (780) 438-0396

Bill to: Earth Tech Canada Inc.
Report to: Earth Tech Canada Inc.
17203 - 103 Avenue
Edmonton, AB, Canada
T5S 1J4
Attn: Environmental Group
Sampled By: MAM
Company: ETC

Project
ID:
Name: Ekalugad
Location:
LSD:
P.O.: 131-1739
Acct. Code:

NWL Lot ID: 332098
Control Number: E 94775
Date Received: Sep 13, 2004
Date Reported: Oct 15, 2004
Report Number: 609481

Page: 1 of 28

		NWL Number	332098-1	332098-2	332098-3		
		Sample Date	Sep 09, 2004	Sep 09, 2004	Sep 09, 2004		
		Sample Description	US-1063	US-1045	MS-1081-SW		
		Matrix	Water - General	Water - General	Water - General		
Analyte		Units	Results	Results	Results	Detection Limit	
Metals Dissolved							
Silicon	Dissolved	mg/L	2.26	1.20	1.01	0.05	
Sulphur	Dissolved	mg/L	0.94	0.54	0.68	0.05	
Aluminum	Dissolved	mg/L	0.357	0.060	<0.005	0.005	
Antimony	Dissolved	mg/L	<0.0002	0.0015	0.0003	0.0002	
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002	
Barium	Dissolved	mg/L	0.006	0.004	0.002	0.001	
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001	
Boron	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005	
Cadmium	Dissolved	mg/L	0.003	0.013	0.007	0.002	
Chromium	Dissolved	mg/L	0.00005	<0.00001	0.00002	0.00001	
Cobalt	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005	
Copper	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001	
Lead	Dissolved	mg/L	0.022	0.003	0.003	0.001	
Lithium	Dissolved	mg/L	0.0004	<0.0001	0.0003	0.0001	
Molybdenum	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Nickel	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Selenium	Dissolved	mg/L	0.0006	<0.0005	<0.0005	0.0005	
Silver	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002	
Strontium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001	
Thallium	Dissolved	mg/L	0.009	0.019	0.009	0.001	
Tin	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005	
Titanium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Uranium	Dissolved	mg/L	0.0179	0.0034	<0.0005	0.0005	
Vanadium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005	
Zinc	Dissolved	mg/L	0.0007	0.0002	<0.0001	0.0001	
Metals Total							
Iron	Total	mg/L	112	267	0.4	0.1	
Manganese	Total	mg/L	0.887	2.28	0.006	0.005	
Silicon	Total	mg/L	64.1	118	1.67	0.05	
Sulphur	Total	mg/L	1.48	2.50	0.68	0.05	
Mercury	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002	
Aluminum	Total	mg/L	81.8	209	0.358	0.005	
Antimony	Total	mg/L	<0.002	<0.004	0.0002	0.0002	
Arsenic	Total	mg/L	0.013	0.039	<0.0002	0.0002	



Analytical Report

Norwest Labs
7217 Roper Road
Edmonton, AB. T6B 3J4
Phone: (780) 438-5522
Fax: (780) 438-0396

Bill to: Earth Tech Canada Inc.
Report to: Earth Tech Canada Inc.
17203 - 103 Avenue
Edmonton, AB, Canada
T5S 1J4
Attn: Environmental Group
Sampled By: MAM
Company: ETC

Project
ID:
Name: Ekalugad
Location:
LSD:
P.O.: 131-1739
Acct. Code:

NWL Lot ID: 332098
Control Number: E 94775
Date Received: Sep 13, 2004
Date Reported: Oct 15, 2004
Report Number: 609481

Page: 2 of 28

		NWL Number	332098-1	332098-2	332098-3		
		Sample Date	Sep 09, 2004	Sep 09, 2004	Sep 09, 2004		
		Sample Description	US-1063	US-1045	MS-1081-SW		
		Matrix	Water - General	Water - General	Water - General		
Analyte		Units	Results	Results	Results	Detection Limit	
Metals Total - Continued							
Barium	Total	mg/L	0.524	1.13	0.005	0.001	
Beryllium	Total	mg/L	0.0034	0.0088	<0.0001	0.0001	
Bismuth	Total	mg/L	<0.005	<0.01	<0.0005	0.0005	
Boron	Total	mg/L	<0.02	<0.04	0.006	0.002	
Cadmium	Total	mg/L	0.00096	0.0017	0.00003	0.00001	
Chromium	Total	mg/L	0.238	0.570	0.0011	0.0005	
Cobalt	Total	mg/L	0.0466	0.110	0.0003	0.0001	
Copper	Total	mg/L	0.200	0.472	0.002	0.001	
Lead	Total	mg/L	0.0843	0.177	0.0011	0.0001	
Lithium	Total	mg/L	0.122	0.297	<0.001	0.001	
Molybdenum	Total	mg/L	<0.01	<0.02	<0.001	0.001	
Nickel	Total	mg/L	0.127	0.336	0.0008	0.0005	
Selenium	Total	mg/L	<0.002	<0.004	<0.0002	0.0002	
Silver	Total	mg/L	<0.001	<0.002	<0.0001	0.0001	
Strontium	Total	mg/L	0.062	0.11	0.006	0.001	
Thallium	Total	mg/L	0.0024	0.0049	<0.00005	0.00005	
Tin	Total	mg/L	<0.01	<0.02	<0.001	0.001	
Titanium	Total	mg/L	7.96	18.9	0.0384	0.0005	
Uranium	Total	mg/L	0.016	0.045	<0.0005	0.0005	
Vanadium	Total	mg/L	0.238	0.542	0.0008	0.0001	
Zinc	Total	mg/L	0.519	0.715	0.005	0.001	
Physical and Aggregate Properties							
Temp. of observed pH and EC		°C	20.0	20.0	19.8		
Routine Water							
pH			6.46	7.07	6.74		
Electrical Conductivity		µS/cm at 25 C	21	37	18	1	
Calcium	Dissolved	mg/L	2.1	4.7	1.2	0.2	
Magnesium	Dissolved	mg/L	0.4	0.4	0.2	0.1	
Sodium	Dissolved	mg/L	1.0	1.6	1.1	0.4	
Potassium	Dissolved	mg/L	1.4	1.1	<0.4	0.4	
Iron	Dissolved	mg/L	0.30	0.09	<0.01	0.01	
Manganese	Dissolved	mg/L	0.050	<0.005	<0.005	0.005	
Chloride	Dissolved	mg/L	<0.5	0.9	1.6	0.5	
Ammonia - N		mg/L	<0.1	<0.1	0.2	0.01	
Nitrite - N		mg/L	<0.05	<0.05	<0.05	0.005	

Bill to: Earth Tech Canada Inc.
Report to: Earth Tech Canada Inc.
17203 - 103 Avenue
Edmonton, AB, Canada
T5S 1J4
Attn: Environmental Group
Sampled By: MAM
Company: ETC

Project
ID:
Name: Ekalugad
Location:
LSD:
P.O.: 131-1739
Acct. Code:

NWL Lot ID: **332098**
Control Number: E 94775
Date Received: Sep 13, 2004
Date Reported: Oct 15, 2004
Report Number: 609481

Page: 3 of 28

		NWL Number	332098-1	332098-2	332098-3	
		Sample Date	Sep 09, 2004	Sep 09, 2004	Sep 09, 2004	
		Sample Description	US-1063	US-1045	MS-1081-SW	
		Matrix	Water - General	Water - General	Water - General	
Analyte	Units	Results	Results	Results	Detection Limit	
Routine Water - Continued						
Nitrate and Nitrite - N	mg/L	<0.2	<0.2	<0.2	0.02	
Sulphate (SO4)	Dissolved mg/L	2.8	1.6	2.0	0.2	
Hydroxide	mg/L	<5	<5	<5	5	
Carbonate	mg/L	11	<6	8	6	
Bicarbonate	mg/L	<5	22	<5	5	
P-Alkalinity	as CaCO3 mg/L	<5	<5	<5	5	
T-Alkalinity	as CaCO3 mg/L	9	18	6	5	
Total dissolved solids	Calculated mg/L	13	21	10	:	
Hardness	Dissolved as CaCO3 mg/L	6.8	13.6	3.9		
Ionic Balance	Dissolved %	54	87	37		
Mono-Aromatic Hydrocarbons - Water						
Benzene	mg/L	<0.001	<0.001	<0.001	0.001	
Toluene	mg/L	0.002	<0.001	0.001	0.001	
Ethylbenzene	mg/L	<0.001	<0.001	<0.001	0.001	
Total Xylenes (m,p,o)	mg/L	0.004	0.002	0.003	0.001	
Volatile Petroleum Hydrocarbons - Water						
F1 C6-C10	mg/L	0.20	0.06	0.13	0.01	
F1-BTEX	mg/L	0.20	0.06	0.13	0.01	
Extractable Petroleum Hydrocarbons - Water						
F2 C10-C16	mg/L	1.5	<0.1	<0.1	0.1	
F3 C16-C34	mg/L	331	2.0	<0.1	0.1	
F3+ C34+	mg/L	44.3	<0.1	<0.1	0.1	
Polychlorinated Biphenyls - Water						
Aroclor 1016	ug/L	<0.1	<0.1	<0.1	0.1	
Aroclor 1221	ug/L	<0.1	<0.1	<0.1	0.1	
Aroclor 1232	ug/L	<0.1	<0.1	<0.1	0.1	
Aroclor 1242	ug/L	<0.1	<0.1	<0.1	0.1	
Aroclor 1248	ug/L	<0.1	<0.1	<0.1	0.1	
Aroclor 1254	ug/L	<0.1	<0.1	<0.1	0.1	
Aroclor 1260	ug/L	0.4	<0.1	<0.1	0.1	
Aroclor 1262	ug/L	<0.1	<0.1	<0.1	0.1	
Aroclor 1268	ug/L	<0.1	<0.1	<0.1	0.1	
Total PCBs	ug/L	0.4	<0.1	<0.1	<0.1	
Polychlorinated Biphenyls - Water - Surrogate						
Decachlorobiphenyl	Surrogate %	51	73	65	50-150	



Analytical Report

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Fax: (780) 438-0396

Bill to: Earth Tech Canada Inc.
Report to: Earth Tech Canada Inc.
17203 - 103 Avenue
Edmonton, AB, Canada
T5S 1J4
Attn: Environmental Group
Sampled By: MAM
Company: ETC

Project
ID:
Name: Ekalugad
Location:
LSD:
P.O.: 131-1739
Acct. Code:

NWL Lot ID: 332098
Control Number: E 94775
Date Received: Sep 13, 2004
Date Reported: Oct 15, 2004
Report Number: 609481

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NWL Number 332098-3
Sample Date Sep 09, 2004
Sample Description MS-1081-SW
Matrix Water - General

Analyte	Units	Results	Results	Results	Detection Limit
Polynuclear Aromatic Hydrocarbons - Water					
Naphthalene	ug/L	<0.01			0.01
Acenaphthylene	ug/L	<0.01			0.01
Acenaphthene	ug/L	<0.01			0.01
Fluorene	ug/L	<0.01			0.01
Phenanthrene	ug/L	<0.01			0.01
Anthracene	ug/L	<0.01			0.01
Acridine	ug/L	<0.01			0.01
Fluoranthene	ug/L	<0.02			0.02
Pyrene	ug/L	<0.02			0.02
Benzo(a)anthracene	ug/L	<0.01			0.01
Chrysene	ug/L	<0.01			0.01
Benzo(b)fluoranthene	ug/L	<0.01			0.01
Benzo(k)fluoranthene	ug/L	<0.01			0.01
Benzo(a)pyrene	ug/L	<0.01			0.01
Indeno(1,2,3-c,d)pyrene	ug/L	<0.01			0.01
Dibenzo(a,h)anthracene	ug/L	<0.01			0.01
Benzo(g,h,i)perylene	ug/L	<0.01			0.01
CB(a)P	ug/L	<0.01			0.01
	Carcinogenic Potency Equivalent				
PAH - Water - Surrogate Recovery					
Nitrobenzene-d5	PAH - Surrogate	%	72		23-130
2-Fluorobiphenyl	PAH - Surrogate	%	62		30-130
p-Terphenyl-d14	PAH - Surrogate	%	58		18-137



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NWL Lot ID: 332098
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		NWL Number	332098-4	332098-5		
		Sample Date	Sep 09, 2004	Sep 09, 2004		
		Sample Description	1067	USGW1		
		Matrix	Water - General	Water - General		
Analyte		Units	Results	Results	Results	Detection Limit
Metals Dissolved						
Silicon	Dissolved	mg/L	1.78	1.13		0.05
Sulphur	Dissolved	mg/L	4.21	2.53		0.05
Aluminum	Dissolved	mg/L	0.136	0.007		0.005
Antimony	Dissolved	mg/L	0.0006	0.0013		0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002		0.0002
Barium	Dissolved	mg/L	0.016	0.005		0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Boron	Dissolved	mg/L	<0.0005	<0.0005		0.0005
Boron	Dissolved	mg/L	0.038	0.012		0.002
Cadmium	Dissolved	mg/L	0.00028	<0.00001		0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005		0.0005
Cobalt	Dissolved	mg/L	0.0019	<0.0001		0.0001
Copper	Dissolved	mg/L	0.015	<0.001		0.001
Lead	Dissolved	mg/L	0.0003	<0.0001		0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001		0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001		0.001
Nickel	Dissolved	mg/L	0.0024	<0.0005		0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002		0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Strontium	Dissolved	mg/L	0.024	0.022		0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005		0.00005
Tin	Dissolved	mg/L	<0.001	<0.001		0.001
Titanium	Dissolved	mg/L	0.0084	<0.0005		0.0005
Uranium	Dissolved	mg/L	<0.0005	<0.0005		0.0005
Vanadium	Dissolved	mg/L	0.0003	<0.0001		0.0001
Zinc	Dissolved	mg/L	0.056	<0.001		0.001



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Company: ETC

Project
ID:
Name: Ekalugad
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LSD:
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NWL Lot ID: 332098
Control Number: E 94775
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		NWL Number	332098-4	332098-5	332098-6		
		Sample Date	Sep 09, 2004	Sep 09, 2004	Sep 09, 2004		
		Sample Description	1067	USGW1	WL-SW-01		
		Matrix	Water - General	Water - General	Water - General		
Analyte	Units	Results	Results	Results	Detection Limit		
Mono-Aromatic Hydrocarbons - Water							
Benzene	mg/L	<0.001	<0.001	<0.001	0.001		
Toluene	mg/L	<0.001	<0.001	<0.001	0.001		
Ethylbenzene	mg/L	<0.001	<0.001	<0.001	0.001		
Total Xylenes (m,p,o)	mg/L	0.002	0.002	0.002	0.001		
Volatile Petroleum Hydrocarbons - Water							
F1 C6-C10	mg/L	0.10	0.09	0.07	0.01		
F1-BTEX	mg/L	0.10	0.09	0.07	0.01		
Non-Volatile Petroleum Hydrocarbons - Water							
F2 C10-C16	mg/L	<0.1	<0.1	<0.1	0.1		
F3 C16-C34	mg/L	<0.1	<0.1	<0.1	0.1		
F3+ C34+	mg/L	<0.1	<0.1	<0.1	0.1		
Polychlorinated Biphenyls - Water							
Aroclor 1016	ug/L	<0.1	<0.1	<0.1	0.1		
Aroclor 1221	ug/L	<0.1	<0.1	<0.1	0.1		
Aroclor 1232	ug/L	<0.1	<0.1	<0.1	0.1		
Aroclor 1242	ug/L	<0.1	<0.1	<0.1	0.1		
Aroclor 1248	ug/L	<0.1	<0.1	<0.1	0.1		
Aroclor 1254	ug/L	1.7	<0.1	<0.1	0.1		
Aroclor 1260	ug/L	<0.1	<0.1	<0.1	0.1		
Aroclor 1262	ug/L	<0.1	<0.1	<0.1	0.1		
Aroclor 1268	ug/L	<0.1	<0.1	<0.1	0.1		
Total PCBs	ug/L	1.7	<0.1	<0.1	<0.1		
Polychlorinated Biphenyls - Water - Surrogate							
Decachlorobiphenyl	Surrogate	76	77	NA	50-150		



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Project
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LSD:
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Acct. Code:

NWL Lot ID: 332098
Control Number: E 94775
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Date Reported: Oct 15, 2004
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		NWL Number	332098-4	332098-5	332098-7	
		Sample Date	Sep 09, 2004	Sep 09, 2004	Sep 09, 2004	
		Sample Description	1067	USGW1	WL-SW-02	
		Matrix	Water - General	Water - General	Water - General	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total						
Iron	Total	mg/L	1960	4.2	1.1	C.L.
Manganese	Total	mg/L	14.1	0.035	0.041	0.005
Silicon	Total	mg/L	304	6.35	3.97	0.05
Sulphur	Total	mg/L	17.8	2.39	3.02	0.05
Mercury	Total	mg/L	0.0010	<0.0002	<0.0002	0.0002
Aluminum	Total	mg/L	1660	3.54	0.186	0.005
Antimony	Total	mg/L	<0.008	0.0012	0.0002	0.0002
Arsenic	Total	mg/L	0.232	0.0004	<0.0002	0.0002
Barium	Total	mg/L	8.76	0.026	0.031	0.001
Beryllium	Total	mg/L	0.0858	0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	0.022	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.14	0.011	<0.002	0.002
Cadmium	Total	mg/L	0.0119	0.00004	0.00006	0.00001
Chromium	Total	mg/L	4.72	0.0094	0.0007	0.0005
Cobalt	Total	mg/L	0.876	0.0015	0.0049	0.0001
Copper	Total	mg/L	3.78	0.006	0.004	0.001
Lead	Total	mg/L	1.72	0.0043	0.0010	0.0001
Lithium	Total	mg/L	2.32	0.005	0.002	0.001
Molybdenum	Total	mg/L	0.14	<0.001	<0.001	0.001
Nickel	Total	mg/L	2.64	0.0043	0.0126	0.0005
Selenium	Total	mg/L	<0.0080	0.0003	<0.0002	0.0002
Silver	Total	mg/L	0.010	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.29	0.025	0.017	0.001
Thallium	Total	mg/L	0.0488	0.00008	<0.00005	0.00005
Tin	Total	mg/L	0.041	<0.001	<0.001	0.001
Titanium	Total	mg/L	158	0.317	0.0068	0.0005
Uranium	Total	mg/L	0.305	0.0006	<0.0005	0.0005
Vanadium	Total	mg/L	4.26	0.0086	0.0002	0.0001
Zinc	Total	mg/L	8.73	0.013	0.056	0.001
Physical and Aggregate Properties						
Temp. of observed pH and EC		°C	20.0	20.2	21.7	
Routine Water						
pH			6.03	7.08	5.73	
Electrical Conductivity		µS/cm at 25 C	52	46	44	1
Calcium	Dissolved	mg/L	5.2	5.1	2.6	0.1