



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
Company

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

NWL Lot ID: 332075
Control Number:
Date Received: Sep 13, 2004
Date Reported: Sep 28, 2004
Report Number: 594363

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		NWL Number	332075-34	332075-35	332075-36
		Sample Description	US-1028	US-1029	US-1030
		Matrix	Soil - general	Soil - general	Soil - general
Analyte		Units	Results	Results	Detection Limit
Silica Gel Cleanup					
Silica Gel Cleanup			Done	Done	Done
Soil % Moisture					
Moisture	Soil % Moisture	%	12.50	12.10	13.30

		NWL Number	332075-35	332075-36	332075-37
		Sample Description	US-1029	US-1030	US-1031
		Matrix	Soil - general	Soil - general	Soil - general
Analyte		Units	Results	Results	Detection Limit
Polychlorinated Biphenyls - Soil					
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1254	Dry Weight	mg/kg	<0.1	0.5	0.1
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1268	Dry Weight	mg/kg	<0.1	<0.1	0.1
Total PCBs	Dry Weight	mg/kg	<0.1	0.5	0.1
Polychlorinated Biphenyls - Soil - Surrogate					
Decachlorobiphenyl	Surrogate	%	86	88	50-150



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		NWL Number	332075-37	332075-38	332075-39	
		Sample Description	US-1031	US-1032	US-1033	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Hot Water Soluble						
Boron	Water Soluble	mg/kg	<0.1	<0.1	<0.1	0.1
Metals Strong Acid Extractable						
Mercury	Strong Acid Extractable	ug/g	0.01	<0.01	0.02	0.01
Antimony	Strong Acid Extractable	ug/g	1.3	1.4	1.3	0.4
Arsenic	Strong Acid Extractable	ug/g	1.8	1.0	1.9	0.5
Barium	Strong Acid Extractable	ug/g	39.6	36.8	42.8	0.05
Beryllium	Strong Acid Extractable	ug/g	0.26	0.15	0.27	0.03
Cadmium	Strong Acid Extractable	ug/g	0.05	0.05	0.07	0.03
Cobalt	Strong Acid Extractable	ug/g	28.3	23.8	30.7	0.05
Copper	Strong Acid Extractable	ug/g	4.04	3.02	3.86	0.04
Lead	Strong Acid Extractable	ug/g	17.6	15.0	17.9	0.05
Molybdenum	Strong Acid Extractable	ug/g	6.0	4.0	6.7	0.1
Nickel	Strong Acid Extractable	ug/g	0.6	0.5	0.7	0.1
Selenium	Strong Acid Extractable	ug/g	14.1	10.8	14.2	0.05
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Thallium	Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Tin	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.4
Vanadium	Strong Acid Extractable	ug/g	1.8	2.0	1.9	0.3
Zinc	Strong Acid Extractable	ug/g	26.6	21.8	27.6	0.05
			33.3	28.8	36.6	0.05



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		NWL Number	332075-38	332075-39	332075-40	
		Sample Description	US-1032	US-1033	US-1034 / 35-50	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte	Units	Results	Results	Results	Detection Limit	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1254	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1268	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Total PCBs	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	74	89	96	50-150



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		NWL Number	332075-38	332075-39	332075-45	
		Sample Description	US-1032	US-1033	US-1038	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.02	<0.02	0.05	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F1 C6-C10	Dry Weight	mg/kg	<1	<1	58	1
F1 TEX	Dry Weight	mg/kg	<1	<1	58	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F2 C10-C16	Dry Weight	mg/kg	<10	94	2990	10
F3 C16-C34	Dry Weight	mg/kg	11	397	1940	10
F4 C34-C50	Dry Weight	mg/kg	<10	22	366	10
F4HTGC C34-C50+	Dry Weight	mg/kg	<10	25	473	10
% C50+		%	0.0	0.0	2.0	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	%	6.68	11.80	10.50	



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		NWL Number	332075-41	332075-42	332075-43
		Sample Description	US-1035 / 0-15	US-1036 / 35	US-1036 / 135
		Matrix	Soil - general	Soil - general	Soil - general
Analyte		Units	Results	Results	Detection Limit
Polychlorinated Biphenyls - Soil					
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1254	Dry Weight	mg/kg	0.6	0.7	0.1
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1268	Dry Weight	mg/kg	<0.1	<0.1	0.1
Total PCBs	Dry Weight	mg/kg	0.6	0.7	0.1
Polychlorinated Biphenyls - Soil - Surrogate					
Decachlorobiphenyl	Surrogate	%	91	107	50-150

		NWL Number	332075-44	332075-45	332075-46
		Sample Description	US-1037 / 45	US-1038	US-1039 / 50
		Matrix	Soil - general	Soil - general	Soil - general
Analyte		Units	Results	Results	Detection Limit
Polychlorinated Biphenyls - Soil					
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1254	Dry Weight	mg/kg	0.1	0.5	0.1
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	0.1
Aroclor 1268	Dry Weight	mg/kg	<0.1	<0.1	0.1
Total PCBs	Dry Weight	mg/kg	0.1	0.5	0.1
Polychlorinated Biphenyls - Soil - Surrogate					
Decachlorobiphenyl	Surrogate	%	99	85	50-150



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		NWL Number		332075-46	332075-47	332075-48
		Sample Description		US-1039 / 50	US-1040	US-1041 / 0
		Matrix		Soil - general	Soil - general	Soil - general
Analyte	Units	Results	Results	Results	Detection Limit	
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date		16-Sep-04	16-Sep-04	16-Sep-04		
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.02	0.23	0.03	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date		16-Sep-04	16-Sep-04	16-Sep-04		
F1 C6-C10	Dry Weight	mg/kg	<1	103	47	1
F1 C6-C10	Dry Weight	mg/kg	<1	103	47	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date		16-Sep-04	16-Sep-04	16-Sep-04		
F2 C10-C16	Dry Weight	mg/kg	180	8050	2350	10
F3 C16-C34	Dry Weight	mg/kg	346	936	466	10
F4 C34-C50	Dry Weight	mg/kg	47	17	66	10
F4HTGC C34-C50+	Dry Weight	mg/kg	52	17	79	10
% C50+	%		0.0	0.0	0.5	
Silica Gel Cleanup						
Silica Gel Cleanup		Done	Done	Done		
Soil % Moisture						
Moisture	Soil % Moisture	%	11.70	12.40	6.97	



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		NWL Number	332075-46	332075-47	332075-49	
		Sample Description	US-1039 / 50	US-1040	US-1041 / Surf	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Hot Water Soluble						
Boron	Water Soluble	mg/kg	0.1	0.2	<0.1	0.1
Metals Strong Acid Extractable						
Mercury	Strong Acid Extractable	ug/g	<0.01	0.04	0.10	0.01
Antimony	Strong Acid Extractable	ug/g	1.0	2.9	1.5	0.4
Arsenic	Strong Acid Extractable	ug/g	<0.5	1.0	<0.5	0.5
Barium	Strong Acid Extractable	ug/g	16.0	34.4	16.7	0.05
Beryllium	Strong Acid Extractable	ug/g	0.13	0.34	0.25	0.03
Cadmium	Strong Acid Extractable	ug/g	0.06	0.42	0.11	0.03
Cobalt	Strong Acid Extractable	ug/g	11.9	23.2	15.3	0.05
Copper	Strong Acid Extractable	ug/g	1.97	3.63	2.83	0.04
Lead	Strong Acid Extractable	ug/g	8.29	14.1	10.2	0.05
Molybdenum	Strong Acid Extractable	ug/g	3.0	10.9	10.3	0.1
Nickel	Strong Acid Extractable	ug/g	0.2	0.4	0.3	0.1
Selenium	Strong Acid Extractable	ug/g	7.48	12.2	8.17	0.05
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Thallium	Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Tin	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.4
Vanadium	Strong Acid Extractable	ug/g	2.0	2.1	2.1	0.3
Zinc	Strong Acid Extractable	ug/g	9.60	19.1	8.46	0.05
			13.6	49.2	16.3	0.05



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		NWL Number	332075-47	332075-48	332075-50	
		Sample Description	US-1040	US-1041 / 0	US-1042 / Surf	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1254	Dry Weight	mg/kg	0.4	0.2	<0.1	0.1
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1268	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Total PCBs	Dry Weight	mg/kg	0.4	0.2	<0.1	0.1
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	84	96	77	50-150



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		NWL Number	332075-50	332075-51	332075-54	
		Sample Description	US-1042 / Surf	US-1043 / Surf	US-1045 / 30-50	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	0.04	<0.02	<0.02	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F1 C6-C10	Dry Weight	mg/kg	<1	<1	<1	1
TEX	Dry Weight	mg/kg	<1	<1	<1	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F2 C10-C16	Dry Weight	mg/kg	16	<10	<10	10
F3 C16-C34	Dry Weight	mg/kg	84	33	259	10
F4 C34-C50	Dry Weight	mg/kg	17	<10	36	10
F4HTGC C34-C50+	Dry Weight	mg/kg	20	11	40	10
% C50+		%	0.0	0.0	0.0	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	%	12.30	11.00	7.44	



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		NWL Number	332075-50	332075-52	332075-53	
		Sample Description	US-1042 / Surf	US-1044 / Surf	US-1044 / 20-30	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Hot Water Soluble						
Boron	Water Soluble	mg/kg	<0.1	<0.1	<0.1	0.1
Metals Strong Acid Extractable						
Mercury	Strong Acid Extractable	ug/g	0.01	0.01	0.02	0.01
Antimony	Strong Acid Extractable	ug/g	1.1	1.4	1.5	0.4
Arsenic	Strong Acid Extractable	ug/g	1.2	1.8	1.6	0.5
Barium	Strong Acid Extractable	ug/g	32.0	60.3	56.2	0.05
Beryllium	Strong Acid Extractable	ug/g	0.18	0.28	0.23	0.03
Cadmium	Strong Acid Extractable	ug/g	0.06	0.06	0.07	0.03
Cobalt	Strong Acid Extractable	ug/g	21.3	33.7	30.5	0.05
Copper	Strong Acid Extractable	ug/g	2.51	4.50	4.00	0.04
Lead	Strong Acid Extractable	ug/g	9.39	15.5	13.0	0.05
Molybdenum	Strong Acid Extractable	ug/g	5.5	7.0	5.0	0.1
Nickel	Strong Acid Extractable	ug/g	0.3	0.6	0.6	0.1
Selenium	Strong Acid Extractable	ug/g	9.06	15.0	13.6	0.05
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Thallium	Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Tin	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.4
Vanadium	Strong Acid Extractable	ug/g	2.2	2.0	2.1	0.3
Zinc	Strong Acid Extractable	ug/g	19.2	31.0	28.4	0.05
			25.3	38.7	33.6	0.05



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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:
Company:

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

NWL Lot ID: 332075
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		NWL Number	332075-51	332075-57	332075-58	
		Sample Description	US-1043 / Surf	US-1046 / 25-35	US-1047 / 0	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1254	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
/ or 1268	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Total PCBs	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	84	79	79	50-150



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		NWL Number	332075-57	332075-58	332075-60	
		Sample Description	US-1046 / 25-35	US-1047 / 0	US-1048 / 20-30	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.02	<0.02	0.07	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F1 C6-C10	Dry Weight	mg/kg	<1	<1	113	1
F1 TEX	Dry Weight	mg/kg	<1	<1	113	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F2 C10-C16	Dry Weight	mg/kg	136	<10	1060	10
F3 C16-C34	Dry Weight	mg/kg	151	11	138	10
F4 C34-C50	Dry Weight	mg/kg	27	<10	16	10
F4HTGC C34-C50+	Dry Weight	mg/kg	31	<10	21	10
% C50+		%	0.0	0.0	0.0	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	%	10.10	10.70	10.70	



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		NWL Number	332075-58	332075-60	332075-64	
		Sample Description	US-1047 / 0	US-1048 / 20-30	US-1050 / Surf	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Hot Water Soluble						
Boron	Water Soluble	mg/kg	<0.1	<0.1	0.1	0.1
Metals Strong Acid Extractable						
Mercury	Strong Acid Extractable	ug/g	<0.01	<0.01	<0.01	0.01
Antimony	Strong Acid Extractable	ug/g	1.4	1.2	1.5	0.4
Arsenic	Strong Acid Extractable	ug/g	2.2	1.1	1.0	0.5
Barium	Strong Acid Extractable	ug/g	47.0	49.9	43.4	0.05
Beryllium	Strong Acid Extractable	ug/g	0.27	0.22	0.16	0.03
Cadmium	Strong Acid Extractable	ug/g	0.06	0.07	0.18	0.03
Cobalt	Strong Acid Extractable	ug/g	32.8	30.0	52.6	0.05
Copper	Strong Acid Extractable	ug/g	4.20	4.06	6.03	0.04
Lead	Strong Acid Extractable	ug/g	16.2	13.4	19.2	0.05
Molybdenum	Strong Acid Extractable	ug/g	5.8	4.9	21.4	0.1
Nickel	Strong Acid Extractable	ug/g	0.7	0.4	0.4	0.1
Selenium	Strong Acid Extractable	ug/g	14.5	12.4	24.6	0.05
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Thallium	Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Tin	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.4
Vanadium	Strong Acid Extractable	ug/g	2.0	2.2	2.4	0.3
Zinc	Strong Acid Extractable	ug/g	29.0	27.1	31.1	0.05
			38.3	35.0	47.6	0.05



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		NWL Number	332075-60	332075-61	332075-63	
		Sample Description	US-1048 / 20-30	US-1049 / 30	US-1050 / 0	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1254	Dry Weight	mg/kg	<0.1	<0.1	0.2	0.1
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
/ or 1268	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Total PCBs	Dry Weight	mg/kg	<0.1	<0.1	0.2	0.1
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	81	79	76	50-150

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		NWL Number	332075-61	332075-63	332075-66	
		Sample Description	US-1049 / 30	US-1050 / 0	US-1051	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F1 C6-C10	Dry Weight	mg/kg	<1	<1	<1	1
F1 TEX	Dry Weight	mg/kg	<1	<1	<1	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F2 C10-C16	Dry Weight	mg/kg	<10	16	524	10
F3 C16-C34	Dry Weight	mg/kg	29	768	17200	10
F4 C34-C50	Dry Weight	mg/kg	<10	209	2200	10
F4HTGC C34-C50+	Dry Weight	mg/kg	11	256	2450	10
% C50+		%	0.0	4.5	1.2	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	%	10.40	8.83	9.31	



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		NWL Number	332075-65	332075-69	332075-70	Detection Limit
		Sample Description	US-1050 / 3040	US-1053 / Surf	US-1053 / 20-30	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	
Hot Water Soluble						
Boron	Water Soluble	mg/kg	<0.1	<0.1	<0.1	0.1
Metals Strong Acid Extractable						
Mercury	Strong Acid Extractable	ug/g	0.04	0.02	<0.01	0.01
Antimony	Strong Acid Extractable	ug/g	1.4	1.9	1.8	0.4
Arsenic	Strong Acid Extractable	ug/g	1.1	1.6	1.9	0.5
Barium	Strong Acid Extractable	ug/g	42.7	60.7	63.1	0.05
Beryllium	Strong Acid Extractable	ug/g	0.14	0.55	0.78	0.03
Cadmium	Strong Acid Extractable	ug/g	0.08	0.08	0.06	0.03
Cobalt	Strong Acid Extractable	ug/g	51.5	49.0	49.3	0.05
Cu	Strong Acid Extractable	ug/g	5.77	5.22	6.66	0.04
Copper	Strong Acid Extractable	ug/g	16.4	26.9	37.2	0.05
Lead	Strong Acid Extractable	ug/g	9.5	21.0	8.3	0.1
Molybdenum	Strong Acid Extractable	ug/g	0.5	0.8	0.9	0.1
Nickel	Strong Acid Extractable	ug/g	23.6	19.5	24.4	0.05
Selenium	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Silver	Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.4
Tin	Strong Acid Extractable	ug/g	2.2	2.2	2.0	0.3
Vanadium	Strong Acid Extractable	ug/g	32.2	40.4	42.3	0.05
Zinc	Strong Acid Extractable	ug/g	43.7	55.5	54.2	0.05



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		NWL Number	332075-66	332075-67	332075-80		
		Sample Description	US-1051	US-1052	US-1063(COMP) / 0		
		Matrix	Soil - general	Soil - general	Soil - general		
Analyte		Units	Results	Results	Results	Detection Limit	
Polychlorinated Biphenyls - Soil							
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1254	Dry Weight	mg/kg	1.0	1.1	<0.1	0.1	
Aroclor 1260	Dry Weight	mg/kg	0.3	<0.1	<0.1	0.1	
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1268	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Total PCBs	Dry Weight	mg/kg	1.3	1.1	<0.1	0.1	
Polychlorinated Biphenyls - Soil - Surrogate							
Decachlorobiphenyl	Surrogate	%	81	69	70	50-150	



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		NWL Number	332075-67	332075-73	332075-74	
		Sample Description	US-1052	US-1056 / Surf	US-1057 / 10	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F1 C6-C10	Dry Weight	mg/kg	2	<1	1	1
F1 C6-C10	Dry Weight	mg/kg	2	<1	1	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F2 C10-C16	Dry Weight	mg/kg	126	938	2050	10
F3 C16-C34	Dry Weight	mg/kg	31900	1070	819	10
F4 C34-C50	Dry Weight	mg/kg	8180	146	25	10
F4HTGC C34-C50+	Dry Weight	mg/kg	10400	189	26	10
% C50+		%	5.2	1.5	0.0	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	%	21.90	10.80	10.60	



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		NWL Number	332075-71	332075-72	332075-82	Detection Limit
		Sample Description	US-1054 / 0	US-1055 / 0	US-1065 / 40-50	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	
Hot Water Soluble						
Boron	Water Soluble	mg/kg	<0.1	<0.1	<0.1	0.1
Metals Strong Acid Extractable						
Mercury	Strong Acid Extractable	ug/g	0.02	<0.01	<0.01	0.01
Antimony	Strong Acid Extractable	ug/g	1.4	1.3	1.2	0.4
Arsenic	Strong Acid Extractable	ug/g	1.3	1.5	1.7	0.5
Barium	Strong Acid Extractable	ug/g	76.7	175	44.2	0.05
Beryllium	Strong Acid Extractable	ug/g	0.45	0.60	0.33	0.03
Cadmium	Strong Acid Extractable	ug/g	0.07	0.14	0.05	0.03
Cobalt	Strong Acid Extractable	ug/g	44.0	42.9	30.9	0.05
Copper	Strong Acid Extractable	ug/g	5.17	6.25	4.84	0.04
Lead	Strong Acid Extractable	ug/g	24.2	29.2	24.5	0.05
Molybdenum	Strong Acid Extractable	ug/g	15.6	8.3	6.4	0.1
Nickel	Strong Acid Extractable	ug/g	0.6	0.7	0.8	0.1
Selenium	Strong Acid Extractable	ug/g	18.5	28.8	16.0	0.05
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Thallium	Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Tin	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.4
Vanadium	Strong Acid Extractable	ug/g	2.2	2.1	2.1	0.3
Zinc	Strong Acid Extractable	ug/g	36.1	35.9	27.2	0.05
			56.1	56.5	36.1	0.05



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		NWL Number	332075-75	332075-76	332075-77	Detection Limit
		Sample Description	US-1058 / 30-40	US-1059 / 20-30	US-1060 / 20	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	0.03	<0.02	<0.02	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F1 C6-C10	Dry Weight	mg/kg	57	29	1	1
TEX	Dry Weight	mg/kg	57	29	1	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date			16-Sep-04	16-Sep-04	17-Sep-04	
F2 C10-C16	Dry Weight	mg/kg	2820	2920	1130	10
F3 C16-C34	Dry Weight	mg/kg	181	229	188	10
F4 C34-C50	Dry Weight	mg/kg	<10	<10	<10	10
F4HTGC C34-C50+	Dry Weight	mg/kg	<10	<10	<10	10
% C50+		%	0.0	0.0	0.0	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	%	7.14	12.40	9.18	
Polynuclear Aromatic Hydrocarbons - Soil						
Naphthalene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Acenaphthylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Acenaphthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	mg/kg	0.46	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	mg/kg	0.27	<0.05	<0.05	0.05
Anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(j)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05



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:
Company:

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

NWL Lot ID: 332075
Control Number:
Date Received: Sep 13, 2004
Date Reported: Sep 28, 2004
Report Number: 594363

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		NWL Number	332075-75	332075-76	332075-77	
		Sample Description	US-1058 / 30-40	US-1059 / 20-30	US-1060 / 20	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Polynuclear Aromatic Hydrocarbons - Soil - Conti						
Benzo(g,h,i)perylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
CB(a)P	Carcinogenic Potency Equivalent	mg/kg	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
Nitrobenzene-d5	PAH - Surrogate	%	>130	132	114	23-130
2-Fluorobiphenyl	PAH - Surrogate	%	85	84	78	30-130
p-Terphenyl-d14	PAH - Surrogate	%	53	54	61	18-137



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		NWL Number	332075-78	332075-79	332075-80	Detection Limit
		Sample Description	US-1061 / 5-10	US-1062 / 10-30	US-1063(COMP) / 0	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F1 C6-C10	Dry Weight	mg/kg	2	26	2	1
F1 TEX	Dry Weight	mg/kg	2	26	2	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date			17-Sep-04	17-Sep-04	17-Sep-04	
F2 C10-C16	Dry Weight	mg/kg	2630	1110	42	10
F3 C16-C34	Dry Weight	mg/kg	1990	152	29200	10
F4 C34-C50	Dry Weight	mg/kg	73	<10	10100	10
F4HTGC C34-C50+	Dry Weight	mg/kg	104	<10	14200	10
% C50+		%	0.7	0.0	9.3	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	%	15.80	13.10	5.13	
Polynuclear Aromatic Hydrocarbons - Soil						
Naphthalene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Acenaphthylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Acenaphthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	mg/kg	<0.05	<0.05	0.22	0.05
Benzo(b)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(j)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05



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		NWL Number	332075-78	332075-79	332075-80	
		Sample Description	US-1061 / 5-10	US-1062 / 10-30	US-1063(COMP) / 0	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Polynuclear Aromatic Hydrocarbons - Soil - Conti						
Benzo(g,h,i)perylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
CB(a)P	Carcinogenic Potency Equivalent	mg/kg	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
Nitrobenzene-d5	PAH - Surrogate	%	51	>130	122	23-130
2-Fluorobiphenyl	PAH - Surrogate	%	90	92	53	30-130
p-Terphenyl-d14	PAH - Surrogate	%	79	61	56	18-137



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		NWL Number	332075-81	332075-83	332075-84		
		Sample Description	US-1063 / 40-50	US-1066 / 50-60	US-1067 / 50-60		
		Matrix	Soil - general	Soil - general	Soil - general		
Analyte		Units	Results	Results	Results	Detection Limit	
Mono-Aromatic Hydrocarbons - Soil							
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04		
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02	
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02	
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02	
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02	
Volatile Petroleum Hydrocarbons - Soil							
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04		
F1 C6-C10	Dry Weight	mg/kg	2	<1	<1	1	
F1 TEX	Dry Weight	mg/kg	2	<1	<1	1	
Extractable Petroleum Hydrocarbons - Soxhlet							
Extraction Date			17-Sep-04	17-Sep-04	17-Sep-04		
F2 C10-C16	Dry Weight	mg/kg	165	<10	<10	10	
F3 C16-C34	Dry Weight	mg/kg	16300	32	<10	10	
F4 C34-C50	Dry Weight	mg/kg	3420	10	<10	10	
F4HTGC C34-C50+	Dry Weight	mg/kg	4550	12	11	10	
% C50+		%	5.4	0.0	0.0		
Silica Gel Cleanup							
Silica Gel Cleanup			Done	Done	Done		
Soil % Moisture							
Moisture	Soil % Moisture	%	9.92	10.40	10.60		
Polychlorinated Biphenyls - Soil							
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1254	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Aroclor 1268	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Total PCBs	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1	
Polychlorinated Biphenyls - Soil - Surrogate							
Decachlorobiphenyl	Surrogate	%	65	77	86	50-150	