



ECOSYSTEM RECOVERY INC.
ATTN: David Arseneau
1023 Rife Road, Unit A
Cambridge On N1R 5S3

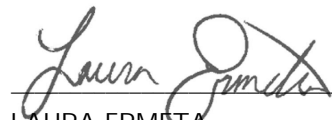
Date Received: 20-AUG-15
Report Date: 04-SEP-15 07:36 (MT)
Version: FINAL

Client Phone: 519-621-1500

Certificate of Analysis

Lab Work Order #: L1660729
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Comments: Grain size data is attached to the end of the report


LAURA ERMETA
Account Manager

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ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047
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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-1 HAR U/S							
Sampled By: CLIENT on 20-AUG-15 @ 11:15							
Matrix: SOIL							
Physical Tests							
Conductivity	0.435		0.0040	mS/cm		29-AUG-15	R3256335
% Moisture	70.8		0.10	%	20-AUG-15	21-AUG-15	R3250064
pH	6.87		0.10	pH units		22-AUG-15	R3251697
Cyanides							
Cyanide, Weak Acid Diss	0.091		0.050	ug/g	24-AUG-15	25-AUG-15	R3253230
Saturated Paste Extractables							
SAR	0.40		0.10	SAR		29-AUG-15	R3256812
Calcium (Ca)	150		1.0	mg/L		29-AUG-15	R3256812
Magnesium (Mg)	16.5		1.0	mg/L		29-AUG-15	R3256812
Sodium (Na)	19.6		1.0	mg/L		29-AUG-15	R3256812
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Arsenic (As)	2.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Barium (Ba)	93.1		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Beryllium (Be)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Boron (B)	8.0		5.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Boron (B), Hot Water Ext.	1.52		0.10	ug/g	28-AUG-15	29-AUG-15	R3256801
Cadmium (Cd)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Chromium (Cr)	13.3		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Cobalt (Co)	4.1		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Copper (Cu)	12.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Lead (Pb)	11.1		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Mercury (Hg)	0.0572		0.0050	ug/g	28-AUG-15	30-AUG-15	R3256457
Molybdenum (Mo)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Nickel (Ni)	7.7		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Selenium (Se)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Silver (Ag)	<0.20		0.20	ug/g	28-AUG-15	31-AUG-15	R3257094
Thallium (Tl)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Uranium (U)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Vanadium (V)	14.3		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Zinc (Zn)	66.8		5.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Speciated Metals							
Chromium, Hexavalent	<0.20		0.20	ug/g	20-AUG-15	21-AUG-15	R3250857
Volatile Organic Compounds							
Acetone	1.10		0.50	ug/g	21-AUG-15	24-AUG-15	R3252144
Benzene	<0.0068		0.0068	ug/g	21-AUG-15	24-AUG-15	R3252144
Bromodichloromethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Bromoform	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Bromomethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Carbon tetrachloride	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Chlorobenzene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Dibromochloromethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-1 HAR U/S							
Sampled By: CLIENT on 20-AUG-15 @ 11:15							
Matrix: SOIL							
Volatile Organic Compounds							
Chloroform	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,2-Dibromoethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,2-Dichlorobenzene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,3-Dichlorobenzene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,4-Dichlorobenzene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Dichlorodifluoromethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1-Dichloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,2-Dichloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1-Dichloroethylene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g		24-AUG-15	
Methylene Chloride	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,2-Dichloropropane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	21-AUG-15	24-AUG-15	R3252144
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	21-AUG-15	24-AUG-15	R3252144
Ethylbenzene	<0.018		0.018	ug/g	21-AUG-15	24-AUG-15	R3252144
n-Hexane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Methyl Ethyl Ketone	<0.50		0.50	ug/g	21-AUG-15	24-AUG-15	R3252144
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	21-AUG-15	24-AUG-15	R3252144
MTBE	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Styrene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Tetrachloroethylene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Toluene	<0.080		0.080	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1,1-Trichloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1,2-Trichloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Trichloroethylene	<0.010		0.010	ug/g	21-AUG-15	24-AUG-15	R3252144
Trichlorofluoromethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Vinyl chloride	<0.020		0.020	ug/g	21-AUG-15	24-AUG-15	R3252144
o-Xylene	<0.020		0.020	ug/g	21-AUG-15	24-AUG-15	R3252144
m+p-Xylenes	<0.030		0.030	ug/g	21-AUG-15	24-AUG-15	R3252144
Xylenes (Total)	<0.050		0.050	ug/g		24-AUG-15	
Surrogate: 4-Bromofluorobenzene	94.8		70-130	%	21-AUG-15	24-AUG-15	R3252144
Surrogate: 1,4-Difluorobenzene	97.7		70-130	%	21-AUG-15	24-AUG-15	R3252144
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	21-AUG-15	24-AUG-15	R3252144
F1-BTEX	<5.0		5.0	ug/g		28-AUG-15	
F2 (C10-C16)	<30	DLHM	30	ug/g	20-AUG-15	21-AUG-15	R3252895
F2-Naphth	<30		30	ug/g		28-AUG-15	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-1 HAR U/S							
Sampled By: CLIENT on 20-AUG-15 @ 11:15							
Matrix: SOIL							
Hydrocarbons							
F3 (C16-C34)	160	DLHM	150	ug/g	20-AUG-15	21-AUG-15	R3252895
F3-PAH	160		150	ug/g		28-AUG-15	
F4 (C34-C50)	<150	DLHM	150	ug/g	20-AUG-15	21-AUG-15	R3252895
Total Hydrocarbons (C6-C50)	<210		210	ug/g		28-AUG-15	
Chrom. to baseline at nC50	YES				20-AUG-15	21-AUG-15	R3252895
Surrogate: 2-Bromobenzotrifluoride	84.8		60-140	%	20-AUG-15	21-AUG-15	R3252895
Surrogate: 3,4-Dichlorotoluene	107.7		60-140	%	21-AUG-15	24-AUG-15	R3252144
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Acenaphthylene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Anthracene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(a)anthracene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(a)pyrene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(b)fluoranthene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(g,h,i)perylene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(k)fluoranthene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Chrysene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Dibenzo(ah)anthracene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Fluoranthene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Fluorene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Indeno(1,2,3-cd)pyrene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
1+2-Methylnaphthalenes	<0.13		0.13	ug/g		28-AUG-15	
1-Methylnaphthalene	<0.090	DLHM	0.090	ug/g	20-AUG-15	28-AUG-15	R3254254
2-Methylnaphthalene	<0.090	DLHM	0.090	ug/g	20-AUG-15	28-AUG-15	R3254254
Naphthalene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Phenanthrene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Pyrene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Surrogate: 2-Fluorobiphenyl	91.2		50-140	%	20-AUG-15	28-AUG-15	R3254254
Surrogate: p-Terphenyl d14	85.3		50-140	%	20-AUG-15	28-AUG-15	R3254254
Organochlorine Pesticides							
Aldrin	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
gamma-hexachlorocyclohexane	<0.30	RRR	0.30	ug/g	20-AUG-15	24-AUG-15	R3252425
a-chlordane	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Chlordane (Total)	<0.85		0.85	ug/g		24-AUG-15	
g-chlordane	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
op-DDD	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDD	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDD	<0.85		0.85	ug/g		24-AUG-15	
o,p-DDE	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDE	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDE	<0.85		0.85	ug/g		24-AUG-15	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-1 HAR U/S Sampled By: CLIENT on 20-AUG-15 @ 11:15 Matrix: SOIL							
Organochlorine Pesticides							
op-DDT	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDT	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDT	<0.85		0.85	ug/g		24-AUG-15	
Dieldrin	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan I	<1.0	DLUI	1.0	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan II	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan (Total)	<1.2		1.2	ug/g		24-AUG-15	
Endrin	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Heptachlor	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Heptachlor Epoxide	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachlorobenzene	<0.30	RRR	0.30	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachlorobutadiene	<0.30	RRR	0.30	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachloroethane	<0.30	RRR	0.30	ug/g	20-AUG-15	24-AUG-15	R3252425
Methoxychlor	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Surrogate: 2-Fluorobiphenyl	101.7		50-140	%	20-AUG-15	24-AUG-15	R3252425
Surrogate: d14-Terphenyl	90.4		50-140	%	20-AUG-15	24-AUG-15	R3252425
Report Remarks : DLM- Extract was run at a dilution due to high sample matrix background. DLHM- Detection limit adjusted: Sample has high moisture content.							
L1660729-2 HAR D/S Sampled By: CLIENT on 20-AUG-15 @ 11:00 Matrix: SOIL							
Physical Tests							
Conductivity	0.344		0.0040	mS/cm		29-AUG-15	R3256335
% Moisture	77.2		0.10	%	20-AUG-15	21-AUG-15	R3250064
pH	6.76		0.10	pH units		22-AUG-15	R3251697
Cyanides							
Cyanide, Weak Acid Diss	0.092		0.050	ug/g	24-AUG-15	25-AUG-15	R3253230
Saturated Paste Extractables							
SAR	0.45		0.10	SAR		29-AUG-15	R3256812
Calcium (Ca)	234		1.0	mg/L		29-AUG-15	R3256812
Magnesium (Mg)	27.4		1.0	mg/L		29-AUG-15	R3256812
Sodium (Na)	27.6		1.0	mg/L		29-AUG-15	R3256812
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Arsenic (As)	2.7		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Barium (Ba)	235		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Beryllium (Be)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Boron (B)	6.7		5.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Boron (B), Hot Water Ext.	1.18		0.10	ug/g	28-AUG-15	29-AUG-15	R3256801
Cadmium (Cd)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Chromium (Cr)	14.9		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Cobalt (Co)	4.5		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Copper (Cu)	16.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-2 HAR D/S							
Sampled By: CLIENT on 20-AUG-15 @ 11:00							
Matrix: SOIL							
Metals							
Lead (Pb)	11.7		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Mercury (Hg)	0.0563		0.0050	ug/g	28-AUG-15	30-AUG-15	R3256457
Molybdenum (Mo)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Nickel (Ni)	10.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Selenium (Se)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Silver (Ag)	<0.20		0.20	ug/g	28-AUG-15	31-AUG-15	R3257094
Thallium (Tl)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Uranium (U)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Vanadium (V)	15.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Zinc (Zn)	71.1		5.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Speciated Metals							
Chromium, Hexavalent	<0.20		0.20	ug/g	20-AUG-15	21-AUG-15	R3250857
Volatile Organic Compounds							
Acetone	1.25		0.50	ug/g	21-AUG-15	24-AUG-15	R3252144
Benzene	<0.0068		0.0068	ug/g	21-AUG-15	24-AUG-15	R3252144
Bromodichloromethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Bromoform	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Bromomethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Carbon tetrachloride	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Chlorobenzene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Dibromochloromethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Chloroform	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,2-Dibromoethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,2-Dichlorobenzene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,3-Dichlorobenzene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,4-Dichlorobenzene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Dichlorodifluoromethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1-Dichloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,2-Dichloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1-Dichloroethylene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g		24-AUG-15	
Methylene Chloride	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,2-Dichloropropane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	21-AUG-15	24-AUG-15	R3252144
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	21-AUG-15	24-AUG-15	R3252144
Ethylbenzene	<0.018		0.018	ug/g	21-AUG-15	24-AUG-15	R3252144
n-Hexane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Methyl Ethyl Ketone	0.79		0.50	ug/g	21-AUG-15	24-AUG-15	R3252144
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	21-AUG-15	24-AUG-15	R3252144

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-2 HAR D/S							
Sampled By: CLIENT on 20-AUG-15 @ 11:00							
Matrix: SOIL							
Volatile Organic Compounds							
MTBE	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Styrene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Tetrachloroethylene	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Toluene	<0.080		0.080	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1,1-Trichloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
1,1,2-Trichloroethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Trichloroethylene	<0.010		0.010	ug/g	21-AUG-15	24-AUG-15	R3252144
Trichlorofluoromethane	<0.050		0.050	ug/g	21-AUG-15	24-AUG-15	R3252144
Vinyl chloride	<0.020		0.020	ug/g	21-AUG-15	24-AUG-15	R3252144
o-Xylene	<0.020		0.020	ug/g	21-AUG-15	24-AUG-15	R3252144
m+p-Xylenes	<0.030		0.030	ug/g	21-AUG-15	24-AUG-15	R3252144
Xylenes (Total)	<0.050		0.050	ug/g		24-AUG-15	
Surrogate: 4-Bromofluorobenzene	87.7		70-130	%	21-AUG-15	24-AUG-15	R3252144
Surrogate: 1,4-Difluorobenzene	99.0		70-130	%	21-AUG-15	24-AUG-15	R3252144
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	21-AUG-15	24-AUG-15	R3252144
F1-BTEX	<5.0		5.0	ug/g		28-AUG-15	
F2 (C10-C16)	<30	DLHM	30	ug/g	20-AUG-15	21-AUG-15	R3252895
F2-Naphth	<30		30	ug/g		28-AUG-15	
F3 (C16-C34)	320	DLHM	150	ug/g	20-AUG-15	21-AUG-15	R3252895
F3-PAH	320		150	ug/g		28-AUG-15	
F4 (C34-C50)	260	DLHM	150	ug/g	20-AUG-15	21-AUG-15	R3252895
Total Hydrocarbons (C6-C50)	580		210	ug/g		28-AUG-15	
Chrom. to baseline at nC50	YES				20-AUG-15	21-AUG-15	R3252895
Surrogate: 2-Bromobenzotrifluoride	78.6		60-140	%	20-AUG-15	21-AUG-15	R3252895
Surrogate: 3,4-Dichlorotoluene	102.7		60-140	%	21-AUG-15	24-AUG-15	R3252144
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Acenaphthylene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Anthracene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(a)anthracene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(a)pyrene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(b)fluoranthene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(g,h,i)perylene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(k)fluoranthene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Chrysene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Dibenzo(ah)anthracene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Fluoranthene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Fluorene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-2 HAR D/S Sampled By: CLIENT on 20-AUG-15 @ 11:00 Matrix: SOIL							
Polycyclic Aromatic Hydrocarbons							
Indeno(1,2,3-cd)pyrene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
1+2-Methylnaphthalenes	<0.13		0.13	ug/g		28-AUG-15	
1-Methylnaphthalene	<0.090	DLHM	0.090	ug/g	20-AUG-15	28-AUG-15	R3254254
2-Methylnaphthalene	<0.090	DLHM	0.090	ug/g	20-AUG-15	28-AUG-15	R3254254
Naphthalene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Phenanthrene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Pyrene	<0.15	DLHM	0.15	ug/g	20-AUG-15	28-AUG-15	R3254254
Surrogate: 2-Fluorobiphenyl	88.0		50-140	%	20-AUG-15	28-AUG-15	R3254254
Surrogate: p-Terphenyl d14	82.4		50-140	%	20-AUG-15	28-AUG-15	R3254254
Organochlorine Pesticides							
Aldrin	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
gamma-hexachlorocyclohexane	<0.30	RRR	0.30	ug/g	20-AUG-15	24-AUG-15	R3252425
a-chlordane	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Chlordane (Total)	<0.85		0.85	ug/g		24-AUG-15	
g-chlordane	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
op-DDD	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDD	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDD	<0.85		0.85	ug/g		24-AUG-15	
o,p-DDE	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDE	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDE	<0.85		0.85	ug/g		24-AUG-15	
op-DDT	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDT	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDT	<0.85		0.85	ug/g		24-AUG-15	
Dieldrin	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan I	<0.90	DLUI	0.90	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan II	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan (Total)	<1.1		1.1	ug/g		24-AUG-15	
Endrin	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Heptachlor	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Heptachlor Epoxide	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachlorobenzene	<0.30	RRR	0.30	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachlorobutadiene	<0.30	RRR	0.30	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachloroethane	<0.30	RRR	0.30	ug/g	20-AUG-15	24-AUG-15	R3252425
Methoxychlor	<0.60	RRR	0.60	ug/g	20-AUG-15	24-AUG-15	R3252425
Surrogate: 2-Fluorobiphenyl	94.4		50-140	%	20-AUG-15	24-AUG-15	R3252425
Surrogate: d14-Terphenyl	101.2		50-140	%	20-AUG-15	24-AUG-15	R3252425
Report Remarks : DLM- Extract was run at a dilution due to high sample matrix background. DLHM- Detection limit adjusted: Sample has high moisture content.							
L1660729-3 EMB U/S Sampled By: CLIENT on 20-AUG-15 @ 12:40 Matrix: SOIL							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-3 EMB U/S Sampled By: CLIENT on 20-AUG-15 @ 12:40 Matrix: SOIL							
Physical Tests							
Conductivity	0.415		0.0040	mS/cm		29-AUG-15	R3256335
% Moisture	65.7		0.10	%	20-AUG-15	21-AUG-15	R3250064
pH	6.84		0.10	pH units		22-AUG-15	R3251697
Cyanides							
Cyanide, Weak Acid Diss	0.102		0.050	ug/g	24-AUG-15	25-AUG-15	R3253230
Saturated Paste Extractables							
SAR	0.30		0.10	SAR		29-AUG-15	R3256812
Calcium (Ca)	114		1.0	mg/L		29-AUG-15	R3256812
Magnesium (Mg)	13.3		1.0	mg/L		29-AUG-15	R3256812
Sodium (Na)	12.6		1.0	mg/L		29-AUG-15	R3256812
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Arsenic (As)	2.6		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Barium (Ba)	81.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Beryllium (Be)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Boron (B)	6.3		5.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Boron (B), Hot Water Ext.	1.18		0.10	ug/g	28-AUG-15	29-AUG-15	R3256801
Cadmium (Cd)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Chromium (Cr)	14.4		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Cobalt (Co)	4.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Copper (Cu)	13.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Lead (Pb)	9.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Mercury (Hg)	0.0380		0.0050	ug/g	28-AUG-15	30-AUG-15	R3256457
Molybdenum (Mo)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Nickel (Ni)	9.4		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Selenium (Se)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Silver (Ag)	<0.20		0.20	ug/g	28-AUG-15	31-AUG-15	R3257094
Thallium (Tl)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Uranium (U)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Vanadium (V)	18.1		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Zinc (Zn)	64.2		5.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Speciated Metals							
Chromium, Hexavalent	<0.20		0.20	ug/g	20-AUG-15	21-AUG-15	R3250857
Volatile Organic Compounds							
Acetone	<1.0	DLHM	1.0	ug/g	21-AUG-15	26-AUG-15	R3252341
Benzene	<0.014	ABL	0.014	ug/g	21-AUG-15	24-AUG-15	R3252341
Bromodichloromethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Bromoform	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Bromomethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Carbon tetrachloride	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Chlorobenzene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Dibromochloromethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-3 EMB U/S							
Sampled By: CLIENT on 20-AUG-15 @ 12:40							
Matrix: SOIL							
Volatile Organic Compounds							
Chloroform	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,2-Dibromoethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,2-Dichlorobenzene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,3-Dichlorobenzene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,4-Dichlorobenzene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Dichlorodifluoromethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1-Dichloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,2-Dichloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1-Dichloroethylene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
cis-1,2-Dichloroethylene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
trans-1,2-Dichloroethylene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,3-Dichloropropene (cis & trans)	<0.085		0.085	ug/g		26-AUG-15	
Methylene Chloride	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,2-Dichloropropane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
cis-1,3-Dichloropropene	<0.060	ABL	0.060	ug/g	21-AUG-15	24-AUG-15	R3252341
trans-1,3-Dichloropropene	<0.060	ABL	0.060	ug/g	21-AUG-15	24-AUG-15	R3252341
Ethylbenzene	<0.036	ABL	0.036	ug/g	21-AUG-15	24-AUG-15	R3252341
n-Hexane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Methyl Ethyl Ketone	<1.0	ABL	1.0	ug/g	21-AUG-15	24-AUG-15	R3252341
Methyl Isobutyl Ketone	<1.0	ABL	1.0	ug/g	21-AUG-15	24-AUG-15	R3252341
MTBE	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Styrene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1,1,2-Tetrachloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1,1,2,2-Tetrachloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Tetrachloroethylene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Toluene	<0.16	ABL	0.16	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1,1-Trichloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1,2-Trichloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Trichloroethylene	<0.020	ABL	0.020	ug/g	21-AUG-15	24-AUG-15	R3252341
Trichlorofluoromethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Vinyl chloride	<0.040	ABL	0.040	ug/g	21-AUG-15	24-AUG-15	R3252341
o-Xylene	<0.040	ABL	0.040	ug/g	21-AUG-15	24-AUG-15	R3252341
m+p-Xylenes	<0.060	ABL	0.060	ug/g	21-AUG-15	24-AUG-15	R3252341
Xylenes (Total)	<0.072		0.072	ug/g		26-AUG-15	
Surrogate: 4-Bromofluorobenzene	77.1		70-130	%	21-AUG-15	24-AUG-15	R3252341
Surrogate: 1,4-Difluorobenzene	82.3		70-130	%	21-AUG-15	24-AUG-15	R3252341
Hydrocarbons							
F1 (C6-C10)	<10	DLHM	10	ug/g	21-AUG-15	26-AUG-15	R3252341
F1-BTEX	<10		10	ug/g		28-AUG-15	
F2 (C10-C16)	<20	DLHM	20	ug/g	20-AUG-15	21-AUG-15	R3252895
F2-Naphth	<20		20	ug/g		28-AUG-15	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-3 EMB U/S							
Sampled By: CLIENT on 20-AUG-15 @ 12:40							
Matrix: SOIL							
Hydrocarbons							
F3 (C16-C34)	130	DLHM	100	ug/g	20-AUG-15	21-AUG-15	R3252895
F3-PAH	130		100	ug/g		28-AUG-15	
F4 (C34-C50)	<100	DLHM	100	ug/g	20-AUG-15	21-AUG-15	R3252895
Total Hydrocarbons (C6-C50)	<140		140	ug/g		28-AUG-15	
Chrom. to baseline at nC50	YES				20-AUG-15	21-AUG-15	R3252895
Surrogate: 2-Bromobenzotrifluoride	93.2		60-140	%	20-AUG-15	21-AUG-15	R3252895
Surrogate: 3,4-Dichlorotoluene	49.0	SOL:MI	60-140	%	21-AUG-15	26-AUG-15	R3252341
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Acenaphthylene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Anthracene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(a)anthracene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(a)pyrene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(b)fluoranthene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(g,h,i)perylene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(k)fluoranthene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Chrysene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Dibenzo(ah)anthracene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Fluoranthene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Fluorene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Indeno(1,2,3-cd)pyrene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
1+2-Methylnaphthalenes	<0.085		0.085	ug/g		28-AUG-15	
1-Methylnaphthalene	<0.060	DLHM	0.060	ug/g	20-AUG-15	28-AUG-15	R3254254
2-Methylnaphthalene	<0.060	DLHM	0.060	ug/g	20-AUG-15	28-AUG-15	R3254254
Naphthalene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Phenanthrene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Pyrene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Surrogate: 2-Fluorobiphenyl	91.2		50-140	%	20-AUG-15	28-AUG-15	R3254254
Surrogate: p-Terphenyl d14	85.9		50-140	%	20-AUG-15	28-AUG-15	R3254254
Organochlorine Pesticides							
Aldrin	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
gamma-hexachlorocyclohexane	<0.20	RRR	0.20	ug/g	20-AUG-15	24-AUG-15	R3252425
a-chlordane	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Chlordane (Total)	<0.57		0.57	ug/g		24-AUG-15	
g-chlordane	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
op-DDD	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDD	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDD	<0.57		0.57	ug/g		24-AUG-15	
o,p-DDE	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDE	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDE	<0.57		0.57	ug/g		24-AUG-15	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-3 EMB U/S Sampled By: CLIENT on 20-AUG-15 @ 12:40 Matrix: SOIL							
Organochlorine Pesticides							
op-DDT	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDT	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDT	<0.57		0.57	ug/g		24-AUG-15	
Dieldrin	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan I	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan II	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan (Total)	<0.57		0.57	ug/g		24-AUG-15	
Endrin	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Heptachlor	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Heptachlor Epoxide	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachlorobenzene	<0.20	RRR	0.20	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachlorobutadiene	<0.20	RRR	0.20	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachloroethane	<0.20	RRR	0.20	ug/g	20-AUG-15	24-AUG-15	R3252425
Methoxychlor	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Surrogate: 2-Fluorobiphenyl	101.1		50-140	%	20-AUG-15	24-AUG-15	R3252425
Surrogate: d14-Terphenyl	101.9		50-140	%	20-AUG-15	24-AUG-15	R3252425
Report Remarks : ABL-Analysis compromised due to type of sample jar received. Losses may have occurred according to 511 Regulation. Detection limit adjusted for high moisture.							
Report Remarks : DLM- Extract was run at a dilution due to high sample matrix background. DLHM- Detection limit adjusted: Sample has high moisture content.							
L1660729-4 EMB D/S Sampled By: CLIENT on 20-AUG-15 @ 12:20 Matrix: SOIL							
Physical Tests							
Conductivity	0.267		0.0040	mS/cm		29-AUG-15	R3256335
% Moisture	65.5		0.10	%	20-AUG-15	21-AUG-15	R3250064
pH	6.94		0.10	pH units		22-AUG-15	R3251697
Cyanides							
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	20-AUG-15	21-AUG-15	R3252350
Saturated Paste Extractables							
SAR	0.30		0.10	SAR		29-AUG-15	R3256812
Calcium (Ca)	174		1.0	mg/L		29-AUG-15	R3256812
Magnesium (Mg)	26.2		1.0	mg/L		29-AUG-15	R3256812
Sodium (Na)	16.0		1.0	mg/L		29-AUG-15	R3256812
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Arsenic (As)	3.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Barium (Ba)	133		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Beryllium (Be)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Boron (B)	8.4		5.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Boron (B), Hot Water Ext.	1.46		0.10	ug/g	28-AUG-15	29-AUG-15	R3256801
Cadmium (Cd)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Chromium (Cr)	18.3		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-4 EMB D/S							
Sampled By: CLIENT on 20-AUG-15 @ 12:20							
Matrix: SOIL							
Metals							
Cobalt (Co)	5.2		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Copper (Cu)	16.4		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Lead (Pb)	11.3		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Mercury (Hg)	0.0458		0.0050	ug/g	28-AUG-15	30-AUG-15	R3256457
Molybdenum (Mo)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Nickel (Ni)	12.3		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Selenium (Se)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Silver (Ag)	<0.20		0.20	ug/g	28-AUG-15	31-AUG-15	R3257094
Thallium (Tl)	<0.50		0.50	ug/g	28-AUG-15	31-AUG-15	R3257094
Uranium (U)	<1.0		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Vanadium (V)	22.5		1.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Zinc (Zn)	79.7		5.0	ug/g	28-AUG-15	31-AUG-15	R3257094
Speciated Metals							
Chromium, Hexavalent	<0.20		0.20	ug/g	20-AUG-15	21-AUG-15	R3250857
Volatile Organic Compounds							
Acetone	<1.0	ABL	1.0	ug/g	21-AUG-15	24-AUG-15	R3252341
Benzene	<0.014	ABL	0.014	ug/g	21-AUG-15	24-AUG-15	R3252341
Bromodichloromethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Bromoform	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Bromomethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Carbon tetrachloride	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Chlorobenzene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Dibromochloromethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Chloroform	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,2-Dibromoethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,2-Dichlorobenzene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,3-Dichlorobenzene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,4-Dichlorobenzene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Dichlorodifluoromethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1-Dichloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,2-Dichloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1-Dichloroethylene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
cis-1,2-Dichloroethylene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
trans-1,2-Dichloroethylene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,3-Dichloropropene (cis & trans)	<0.085		0.085	ug/g		25-AUG-15	
Methylene Chloride	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,2-Dichloropropane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
cis-1,3-Dichloropropene	<0.060	ABL	0.060	ug/g	21-AUG-15	24-AUG-15	R3252341
trans-1,3-Dichloropropene	<0.060	ABL	0.060	ug/g	21-AUG-15	24-AUG-15	R3252341
Ethylbenzene	<0.036	ABL	0.036	ug/g	21-AUG-15	24-AUG-15	R3252341
n-Hexane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-4 EMB D/S							
Sampled By: CLIENT on 20-AUG-15 @ 12:20							
Matrix: SOIL							
Volatile Organic Compounds							
Methyl Ethyl Ketone	<1.0	ABL	1.0	ug/g	21-AUG-15	24-AUG-15	R3252341
Methyl Isobutyl Ketone	<1.0	ABL	1.0	ug/g	21-AUG-15	24-AUG-15	R3252341
MTBE	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Styrene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1,1,2-Tetrachloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1,2,2-Tetrachloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Tetrachloroethylene	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Toluene	<0.16	ABL	0.16	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1,1-Trichloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
1,1,2-Trichloroethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Trichloroethylene	<0.020	ABL	0.020	ug/g	21-AUG-15	24-AUG-15	R3252341
Trichlorofluoromethane	<0.10	ABL	0.10	ug/g	21-AUG-15	24-AUG-15	R3252341
Vinyl chloride	<0.040	ABL	0.040	ug/g	21-AUG-15	24-AUG-15	R3252341
o-Xylene	<0.040	ABL	0.040	ug/g	21-AUG-15	24-AUG-15	R3252341
m+p-Xylenes	<0.060	ABL	0.060	ug/g	21-AUG-15	24-AUG-15	R3252341
Xylenes (Total)	<0.072		0.072	ug/g		25-AUG-15	
Surrogate: 4-Bromofluorobenzene	77.9		70-130	%	21-AUG-15	24-AUG-15	R3252341
Surrogate: 1,4-Difluorobenzene	82.9		70-130	%	21-AUG-15	24-AUG-15	R3252341
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	21-AUG-15	26-AUG-15	R3252341
F1-BTEX	<5.0		5.0	ug/g		28-AUG-15	
F2 (C10-C16)	<20	DLHM	20	ug/g	20-AUG-15	21-AUG-15	R3252895
F2-Naphth	<20		20	ug/g		28-AUG-15	
F3 (C16-C34)	<100	DLHM	100	ug/g	20-AUG-15	21-AUG-15	R3252895
F3-PAH	<100		100	ug/g		28-AUG-15	
F4 (C34-C50)	<100	DLHM	100	ug/g	20-AUG-15	21-AUG-15	R3252895
Total Hydrocarbons (C6-C50)	<140		140	ug/g		28-AUG-15	
Chrom. to baseline at nC50	YES				20-AUG-15	21-AUG-15	R3252895
Surrogate: 2-Bromobenzotrifluoride	82.9		60-140	%	20-AUG-15	21-AUG-15	R3252895
Surrogate: 3,4-Dichlorotoluene	49.4	SOL:MI	60-140	%	21-AUG-15	26-AUG-15	R3252341
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Acenaphthylene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Anthracene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(a)anthracene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(a)pyrene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(b)fluoranthene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(g,h,i)perylene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Benzo(k)fluoranthene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Chrysene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Dibenzo(ah)anthracene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-4 EMB D/S							
Sampled By: CLIENT on 20-AUG-15 @ 12:20							
Matrix: SOIL							
Polycyclic Aromatic Hydrocarbons							
Fluoranthene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Fluorene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Indeno(1,2,3-cd)pyrene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
1+2-Methylnaphthalenes	<0.085		0.085	ug/g		28-AUG-15	
1-Methylnaphthalene	<0.060	DLHM	0.060	ug/g	20-AUG-15	28-AUG-15	R3254254
2-Methylnaphthalene	<0.060	DLHM	0.060	ug/g	20-AUG-15	28-AUG-15	R3254254
Naphthalene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Phenanthrene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Pyrene	<0.10	DLHM	0.10	ug/g	20-AUG-15	28-AUG-15	R3254254
Surrogate: 2-Fluorobiphenyl	89.5		50-140	%	20-AUG-15	28-AUG-15	R3254254
Surrogate: p-Terphenyl d14	84.6		50-140	%	20-AUG-15	28-AUG-15	R3254254
Organochlorine Pesticides							
Aldrin	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
gamma-hexachlorocyclohexane	<0.20	RRR	0.20	ug/g	20-AUG-15	24-AUG-15	R3252425
a-chlordane	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Chlordane (Total)	<0.57		0.57	ug/g		24-AUG-15	
g-chlordane	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
op-DDD	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDD	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDD	<0.57		0.57	ug/g		24-AUG-15	
o,p-DDE	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDE	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDE	<0.57		0.57	ug/g		24-AUG-15	
op-DDT	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
pp-DDT	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Total DDT	<0.57		0.57	ug/g		24-AUG-15	
Dieldrin	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan I	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan II	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Endosulfan (Total)	<0.57		0.57	ug/g		24-AUG-15	
Endrin	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Heptachlor	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Heptachlor Epoxide	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachlorobenzene	<0.20	RRR	0.20	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachlorobutadiene	<0.20	RRR	0.20	ug/g	20-AUG-15	24-AUG-15	R3252425
Hexachloroethane	<0.20	RRR	0.20	ug/g	20-AUG-15	24-AUG-15	R3252425
Methoxychlor	<0.40	RRR	0.40	ug/g	20-AUG-15	24-AUG-15	R3252425
Surrogate: 2-Fluorobiphenyl	103.4		50-140	%	20-AUG-15	24-AUG-15	R3252425
Surrogate: d14-Terphenyl	110.6		50-140	%	20-AUG-15	24-AUG-15	R3252425
Report Remarks : ABL-Analysis compromised due to type of sample jar received. Losses may have occurred according to 511 Regulation. Detection limit adjusted for high moisture.							
Report Remarks : DLM- Extract was run at a dilution due to high sample matrix background.							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-4 EMB D/S Sampled By: CLIENT on 20-AUG-15 @ 12:20 Matrix: SOIL DLHM- Detection limit adjusted: Sample has high moisture content.							
L1660729-5 HAR U/S TCLP Sampled By: CLIENT on 20-AUG-15 @ 11:15 Matrix: SOIL Sample Preparation Initial pH Final pH TCLP Extractables Cyanide, Weak Acid Diss Fluoride (F) Nitrate and Nitrite as N Nitrate-N Nitrite-N TCLP Metals Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag) Uranium (U)	8.19 4.79 <0.10 <10 <4.0 <2.0 <2.0 <0.050 0.88 <2.5 <0.0050 <0.050 <0.050 <0.00010 <0.25 <0.0050 <0.25		0.10 0.10 0.10 10 4.0 2.0 2.0 0.050 0.50 2.5 0.0050 0.050 0.050 0.00010 0.25 0.0050 0.25	pH units pH units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		21-AUG-15 21-AUG-15 24-AUG-15 26-AUG-15 26-AUG-15 26-AUG-15 26-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15	R3252585 R3252585 R3252758 R3254613 R3254613 R3254613 R3254613 R3252744 R3252744 R3252744 R3252744 R3252744 R3252294 R3252744 R3252744 R3252744 R3252744
L1660729-6 HAR D/S TCLP Sampled By: CLIENT on 20-AUG-15 @ 11:00 Matrix: SOIL Sample Preparation Initial pH Final pH TCLP Extractables Cyanide, Weak Acid Diss Fluoride (F) Nitrate and Nitrite as N Nitrate-N Nitrite-N TCLP Metals Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg)	8.02 5.17 <0.10 <10 <4.0 <2.0 <2.0 <0.050 1.51 <2.5 <0.0050 <0.050 <0.050 <0.00010		0.10 0.10 0.10 10 4.0 2.0 2.0 0.050 0.50 2.5 0.0050 0.050 0.050 0.00010	pH units pH units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		21-AUG-15 21-AUG-15 24-AUG-15 26-AUG-15 26-AUG-15 26-AUG-15 26-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15 24-AUG-15	R3252585 R3252585 R3252758 R3254613 R3254613 R3254613 R3254613 R3252744 R3252744 R3252744 R3252744 R3252744 R3252744 R3252744 R3252294

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-6 HAR D/S TCLP Sampled By: CLIENT on 20-AUG-15 @ 11:00 Matrix: SOIL							
TCLP Metals							
Selenium (Se)	<0.25		0.25	mg/L		24-AUG-15	R3252744
Silver (Ag)	<0.0050		0.0050	mg/L		24-AUG-15	R3252744
Uranium (U)	<0.25		0.25	mg/L		24-AUG-15	R3252744
L1660729-7 EMB U/S TCLP Sampled By: CLIENT on 20-AUG-15 @ 12:40 Matrix: SOIL							
Sample Preparation							
Initial pH	7.98		0.10	pH units		21-AUG-15	R3252585
Final pH	5.03		0.10	pH units		21-AUG-15	R3252585
TCLP Extractables							
Cyanide, Weak Acid Diss	<0.10		0.10	mg/L		24-AUG-15	R3252758
Fluoride (F)	<10		10	mg/L		26-AUG-15	R3254613
Nitrate and Nitrite as N	<4.0		4.0	mg/L		26-AUG-15	R3254613
Nitrate-N	<2.0		2.0	mg/L		26-AUG-15	R3254613
Nitrite-N	<2.0		2.0	mg/L		26-AUG-15	R3254613
TCLP Metals							
Arsenic (As)	<0.050		0.050	mg/L		24-AUG-15	R3252744
Barium (Ba)	0.78		0.50	mg/L		24-AUG-15	R3252744
Boron (B)	<2.5		2.5	mg/L		24-AUG-15	R3252744
Cadmium (Cd)	<0.0050		0.0050	mg/L		24-AUG-15	R3252744
Chromium (Cr)	<0.050		0.050	mg/L		24-AUG-15	R3252744
Lead (Pb)	<0.050		0.050	mg/L		24-AUG-15	R3252744
Mercury (Hg)	<0.00010		0.00010	mg/L		24-AUG-15	R3252294
Selenium (Se)	<0.25		0.25	mg/L		24-AUG-15	R3252744
Silver (Ag)	<0.0050		0.0050	mg/L		24-AUG-15	R3252744
Uranium (U)	<0.25		0.25	mg/L		24-AUG-15	R3252744
L1660729-8 EMB D/S TCLP Sampled By: CLIENT on 20-AUG-15 @ 12:20 Matrix: SOIL							
Sample Preparation							
Initial pH	8.35		0.10	pH units		21-AUG-15	R3252585
Final pH	5.79		0.10	pH units		21-AUG-15	R3252585
TCLP Extractables							
Cyanide, Weak Acid Diss	<0.10		0.10	mg/L		24-AUG-15	R3252758
Fluoride (F)	<10		10	mg/L		26-AUG-15	R3254613
Nitrate and Nitrite as N	<4.0		4.0	mg/L		26-AUG-15	R3254613
Nitrate-N	<2.0		2.0	mg/L		26-AUG-15	R3254613
Nitrite-N	<2.0		2.0	mg/L		26-AUG-15	R3254613
TCLP Metals							
Arsenic (As)	<0.050		0.050	mg/L		24-AUG-15	R3252744
Barium (Ba)	0.84		0.50	mg/L		24-AUG-15	R3252744
Boron (B)	<2.5		2.5	mg/L		24-AUG-15	R3252744
Cadmium (Cd)	<0.0050		0.0050	mg/L		24-AUG-15	R3252744

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1660729-8 EMB D/S TCLP Sampled By: CLIENT on 20-AUG-15 @ 12:20 Matrix: SOIL							
TCLP Metals							
Chromium (Cr)	<0.050		0.050	mg/L		24-AUG-15	R3252744
Lead (Pb)	<0.050		0.050	mg/L		24-AUG-15	R3252744
Mercury (Hg)	<0.00010		0.00010	mg/L		24-AUG-15	R3252294
Selenium (Se)	<0.25		0.25	mg/L		24-AUG-15	R3252744
Silver (Ag)	<0.0050		0.0050	mg/L		24-AUG-15	R3252744
Uranium (U)	<0.25		0.25	mg/L		24-AUG-15	R3252744

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	F1 (C6-C10)	DLHM	L1660729-3, -4
Duplicate	Acetone	DLHM	L1660729-3, -4
Duplicate	Antimony (Sb)	DUP-H	L1660729-1, -2, -3, -4
Laboratory Control Sample	n-Hexane	MES	L1660729-3, -4
Matrix Spike	Acetone	MES	L1660729-3, -4
Matrix Spike	Dichlorodifluoromethane	MES	L1660729-3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
ABL	Approximate Result: May Be Biased Low
DLHM	Detection Limit Adjusted: Sample has High Moisture Content
DLUI	Detection Limit Raised: Unknown Interference generated an apparent false positive test result.
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RRR	Refer to Report Remarks for issues regarding this analysis
SOL:MI	Surrogate recovery outside acceptable limits due to matrix interference

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
B-HWS-R511-WT	Soil	Boron-HWE-O.Reg 153/04 (July 2011)	HW EXTR, EPA 6010B
A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
CN-TCLP-WT	Waste	Cyanide for O. Reg 347	APHA 4500CN C E
CN-WAD-R511-WT	Soil	Cyanide (WAD)-O.Reg 153/04 (July 2011)	MOE 3015/APHA 4500CN I-WAD
The sample is extracted with a strong base for 16 hours, and then filtered. The filtrate is then distilled where the cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
CR-CR6-IC-WT	Soil	Hexavalent Chromium in Soil	SW846 3060A/7199
This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
EC-R511-WT	Soil	Conductivity-O.Reg 153/04 (July 2011)	MOEE E3138
A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION

Reference Information

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

F-TCLP-WT	Waste	Fluoride (F) for O. Reg 347	APHA 4110 B-Ion Chromatography
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F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S
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Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS
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Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	MOE DECPH-E3398/CCME TIER 1
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Fractions F2, F3 and F4 are determined by extracting a soil sample with a solvent mix. The solvent recovered from the extracted soil sample is dried and treated to remove polar material. The extract is analyzed by GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-200.2-CVAA-WT	Soil	Mercury in Soil by CVAAS	EPA 200.2/1631E (mod)
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Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-TCLP-WT	Waste	Mercury (CVAA) for O.Reg 347	SW846 7470A
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LEACH-TCLP-WT	Waste	Leachate Procedure for Reg 347	EPA 1311
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Inorganic and Semi-Volatile Organic contaminants are leached from waste samples in strict accordance with US EPA Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP). Test results are reported in leachate concentration units (normally mg/L).

MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020A (mod)
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Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CRC ICPMS.

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. This method does not dissolve all silicate materials and may result in a partial extraction. depending on the sample matrix, for some metals, including, but not limited to Al, Ba, Be, Cr, Sr, Ti, Tl, and V.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-TCLP-WT	Waste	O.Reg 347 TCLP Leachable Metals	EPA 200.8
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Reference Information

METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	Gravimetric: Oven Dried
N2N3-TCLP-WT	Waste	Nitrate/Nitrite-N for O. Reg 347	APHA 4110 B-Ion Chromatography
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270
<p>A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking technique is used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.</p>			
<p>Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).</p>			
PEST-OC-511-WT	Soil	OC Pesticides-O.Reg 153/04 (July 2011)	SW846 8270 (511)
<p>Soil sample is extracted in a solvent, after extraction a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.</p>			
<p>Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).</p>			
PH-R511-WT	Soil	pH-O.Reg 153/04 (July 2011)	MOEE E3137A
<p>A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.</p>			
<p>Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).</p>			
SAR-R511-WT	Soil	SAR-O.Reg 153/04 (July 2011)	SW846 6010C
<p>A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES.</p>			
<p>Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).</p>			
VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)
<p>Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.</p>			
<p>Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).</p>			
XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION
<p>Total xylenes represents the sum of o-xylene and m&p-xylene.</p>			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1660729

Report Date: 04-SEP-15

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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT								
	Soil							
Batch	R3256801							
WG2160183-3	DUP	L1662898-1						
Boron (B), Hot Water Ext.		0.21	0.20		ug/g	8.0	40	29-AUG-15
WG2160183-2	IRM	SALINITY_SOIL4						
Boron (B), Hot Water Ext.			86.5		%		70-130	29-AUG-15
WG2160183-1	MB							
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	29-AUG-15
WG2160183-4	MS	L1662898-1						
Boron (B), Hot Water Ext.			102.9		%		60-140	29-AUG-15
CN-WAD-R511-WT								
	Soil							
Batch	R3252350							
WG2153548-3	DUP	L1660281-10						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	21-AUG-15
WG2153548-2	LCS							
Cyanide, Weak Acid Diss			83.1		%		80-120	21-AUG-15
WG2153548-1	MB							
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	21-AUG-15
WG2153548-4	MS	L1660281-10						
Cyanide, Weak Acid Diss			92.4		%		70-130	21-AUG-15
Batch	R3253230							
WG2157085-3	DUP	L1659445-12						
Cyanide, Weak Acid Diss		0.116	0.134		ug/g	15	35	25-AUG-15
WG2157085-2	LCS							
Cyanide, Weak Acid Diss			117.3		%		80-120	25-AUG-15
WG2157085-1	MB							
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	25-AUG-15
WG2157085-4	MS	L1659445-12						
Cyanide, Weak Acid Diss			106.5		%		70-130	25-AUG-15
CR-CR6-IC-WT								
	Soil							
Batch	R3250857							
WG2153601-4	CRM	WT-SQC012						
Chromium, Hexavalent			75.3		%		70-130	21-AUG-15
WG2153601-3	DUP	L1660312-16						
Chromium, Hexavalent		<0.20	<0.20	RPD-NA	ug/g	N/A	35	21-AUG-15
WG2153601-2	LCS							
Chromium, Hexavalent			94.6		%		80-120	21-AUG-15
WG2153601-1	MB							
Chromium, Hexavalent			<0.20		ug/g		0.2	21-AUG-15



Quality Control Report

Workorder: L1660729

Report Date: 04-SEP-15

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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-R511-WT								
	Soil							
Batch	R3256335							
WG2160189-4	DUP	WG2160189-3						
Conductivity		0.174	0.176		mS/cm	1.1	20	29-AUG-15
WG2160489-1	LCS							
Conductivity			100.0		%		90-110	29-AUG-15
WG2160189-1	MB							
Conductivity			<0.0040		mS/cm		0.044	29-AUG-15
F1-HS-511-WT								
	Soil							
Batch	R3252144							
WG2154427-3	DUP	WG2154427-5						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	50	24-AUG-15
WG2154427-2	LCS							
F1 (C6-C10)			80.9		%		80-120	24-AUG-15
WG2154427-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	24-AUG-15
Surrogate: 3,4-Dichlorotoluene			74.3		%		60-140	24-AUG-15
WG2154427-7	MS	WG2154427-6						
F1 (C6-C10)			80.2		%		60-140	24-AUG-15
Batch	R3252341							
WG2154724-3	DUP	WG2154724-5						
F1 (C6-C10)		<10	<10	RPD-NA	ug/g	N/A	50	26-AUG-15
WG2154724-2	LCS							
F1 (C6-C10)			83.4		%		80-120	24-AUG-15
WG2154724-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	24-AUG-15
Surrogate: 3,4-Dichlorotoluene			76.2		%		60-140	24-AUG-15
WG2154724-7	MS	WG2154724-6						
F1 (C6-C10)			76.7		%		60-140	26-AUG-15
F2-F4-511-WT								
	Soil							
Batch	R3252895							
WG2153651-3	CRM	ALS PHC2 IRM						
F2 (C10-C16)			82.2		%		70-130	21-AUG-15
F3 (C16-C34)			90.6		%		70-130	21-AUG-15
F4 (C34-C50)			94.0		%		70-130	21-AUG-15
WG2153651-5	DUP	WG2153651-4						
F2 (C10-C16)		18	18		ug/g	2.9	40	21-AUG-15
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	40	21-AUG-15
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	40	21-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT		Soil						
Batch	R3252895							
WG2153651-2	LCS							
F2 (C10-C16)			92.4		%		80-120	21-AUG-15
F3 (C16-C34)			106.2		%		80-120	21-AUG-15
F4 (C34-C50)			110.5		%		80-120	21-AUG-15
WG2153651-1	MB							
F2 (C10-C16)			<10		ug/g		10	21-AUG-15
F3 (C16-C34)			<50		ug/g		50	21-AUG-15
F4 (C34-C50)			<50		ug/g		50	21-AUG-15
Surrogate: 2-Bromobenzotrifluoride			82.8		%		60-140	21-AUG-15
HG-200.2-CVAA-WT		Soil						
Batch	R3256457							
WG2160202-2	CRM	WT-CANMET-TILL1						
Mercury (Hg)			93.0		%		70-130	30-AUG-15
WG2160202-6	DUP	WG2160202-5						
Mercury (Hg)		0.0504	0.0517		ug/g	2.6	40	30-AUG-15
WG2160202-4	LCS							
Mercury (Hg)			98.5		%		80-120	30-AUG-15
WG2160202-1	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	30-AUG-15
MET-200.2-CCMS-WT		Soil						
Batch	R3257094							
WG2160202-2	CRM	WT-CANMET-TILL1						
Antimony (Sb)			93.7		%		70-130	31-AUG-15
Arsenic (As)			102.4		%		70-130	31-AUG-15
Barium (Ba)			103.6		%		70-130	31-AUG-15
Beryllium (Be)			103.5		%		70-130	31-AUG-15
Cadmium (Cd)			89.4		%		70-130	31-AUG-15
Chromium (Cr)			103.9		%		70-130	31-AUG-15
Cobalt (Co)			101.5		%		70-130	31-AUG-15
Copper (Cu)			96.7		%		70-130	31-AUG-15
Lead (Pb)			85.9		%		70-130	31-AUG-15
Molybdenum (Mo)			97.9		%		70-130	31-AUG-15
Nickel (Ni)			100.4		%		70-130	31-AUG-15
Selenium (Se)			96.4		%		70-130	31-AUG-15
Silver (Ag)			96.0		%		70-130	31-AUG-15
Thallium (Tl)			87.7		%		70-130	31-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT Soil								
Batch	R3257094							
WG2160202-2	CRM	WT-CANMET-TILL1						
Uranium (U)			101.2		%		70-130	31-AUG-15
Vanadium (V)			109.0		%		70-130	31-AUG-15
Zinc (Zn)			100.2		%		70-130	31-AUG-15
WG2160202-6	DUP	WG2160202-5						
Antimony (Sb)		4.41	2.61	DUP-H	ug/g	51	30	31-AUG-15
Arsenic (As)		12.4	14.5		ug/g	16	30	31-AUG-15
Barium (Ba)		72.9	72.1		ug/g	1.1	40	31-AUG-15
Beryllium (Be)		0.50	0.47		ug/g	5.0	30	31-AUG-15
Boron (B)		5.6	5.9		ug/g	4.5	30	31-AUG-15
Cadmium (Cd)		0.484	0.574		ug/g	17	30	31-AUG-15
Chromium (Cr)		59.1	60.3		ug/g	2.1	30	31-AUG-15
Cobalt (Co)		16.6	16.6		ug/g	0.4	30	31-AUG-15
Copper (Cu)		59.2	56.4		ug/g	4.7	30	31-AUG-15
Lead (Pb)		25.9	26.6		ug/g	2.6	40	31-AUG-15
Molybdenum (Mo)		4.59	4.47		ug/g	2.7	40	31-AUG-15
Nickel (Ni)		81.9	86.9		ug/g	5.9	30	31-AUG-15
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	31-AUG-15
Silver (Ag)		1.10	1.60		ug/g	36	40	31-AUG-15
Thallium (Tl)		0.116	0.119		ug/g	2.6	30	31-AUG-15
Uranium (U)		0.821	0.891		ug/g	8.2	30	31-AUG-15
Vanadium (V)		101	96.1		ug/g	4.8	30	31-AUG-15
Zinc (Zn)		83.8	80.7		ug/g	3.7	30	31-AUG-15
WG2160202-3	LCS							
Antimony (Sb)			98.1		%		80-120	31-AUG-15
Arsenic (As)			94.6		%		80-120	31-AUG-15
Barium (Ba)			99.7		%		80-120	31-AUG-15
Beryllium (Be)			103.2		%		80-120	31-AUG-15
Boron (B)			101.0		%		80-120	31-AUG-15
Cadmium (Cd)			102.8		%		80-120	31-AUG-15
Chromium (Cr)			93.2		%		80-120	31-AUG-15
Cobalt (Co)			93.7		%		80-120	31-AUG-15
Copper (Cu)			93.6		%		80-120	31-AUG-15
Lead (Pb)			95.1		%		80-120	31-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
 1023 Rife Road, Unit A
 Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT								
	Soil							
Batch	R3257094							
WG2160202-3	LCS							
Molybdenum (Mo)			103.8		%		80-120	31-AUG-15
Nickel (Ni)			92.2		%		80-120	31-AUG-15
Selenium (Se)			94.6		%		80-120	31-AUG-15
Silver (Ag)			90.0		%		80-120	31-AUG-15
Thallium (Tl)			91.1		%		80-120	31-AUG-15
Uranium (U)			90.5		%		80-120	31-AUG-15
Vanadium (V)			96.1		%		80-120	31-AUG-15
Zinc (Zn)			94.1		%		80-120	31-AUG-15
WG2160202-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	31-AUG-15
Arsenic (As)			<0.10		mg/kg		0.1	31-AUG-15
Barium (Ba)			<0.50		mg/kg		0.5	31-AUG-15
Beryllium (Be)			<0.10		mg/kg		0.1	31-AUG-15
Boron (B)			<5.0		mg/kg		5	31-AUG-15
Cadmium (Cd)			<0.020		mg/kg		0.02	31-AUG-15
Chromium (Cr)			<0.50		mg/kg		0.5	31-AUG-15
Cobalt (Co)			<0.10		mg/kg		0.1	31-AUG-15
Copper (Cu)			<0.50		mg/kg		0.5	31-AUG-15
Lead (Pb)			<0.50		mg/kg		0.5	31-AUG-15
Molybdenum (Mo)			<0.10		mg/kg		0.1	31-AUG-15
Nickel (Ni)			<0.50		mg/kg		0.5	31-AUG-15
Selenium (Se)			<0.20		mg/kg		0.2	31-AUG-15
Silver (Ag)			<0.10		mg/kg		0.1	31-AUG-15
Thallium (Tl)			<0.050		mg/kg		0.05	31-AUG-15
Uranium (U)			<0.050		mg/kg		0.05	31-AUG-15
Vanadium (V)			<0.20		mg/kg		0.2	31-AUG-15
Zinc (Zn)			<2.0		mg/kg		2	31-AUG-15
MOISTURE-WT								
	Soil							
Batch	R3250064							
WG2153723-3	DUP	L1659744-10						
% Moisture		5.16	5.05		%	2.1	20	21-AUG-15
WG2153723-2	LCS							
% Moisture			99.9		%		90-110	21-AUG-15
WG2153723-1	MB							



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT		Soil						
Batch	R3250064							
WG2153723-1	MB							
% Moisture			<0.10		%		0.1	21-AUG-15
PAH-511-WT		Soil						
Batch	R3254254							
WG2153749-5	DUP	WG2153749-4						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-AUG-15
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-AUG-15
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Benzo(b)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Naphthalene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Phenanthrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-AUG-15
WG2153749-3	IRM	ALS PAH1 RM						
1-Methylnaphthalene			96.1		%		50-140	26-AUG-15
2-Methylnaphthalene			99.8		%		50-140	26-AUG-15
Acenaphthene			68.5		%		50-140	26-AUG-15
Acenaphthylene			109.1		%		50-140	26-AUG-15
Anthracene			72.3		%		50-140	26-AUG-15
Benzo(a)anthracene			103.7		%		50-140	26-AUG-15
Benzo(a)pyrene			96.5		%		50-140	26-AUG-15
Benzo(b)fluoranthene			101.3		%		50-140	26-AUG-15
Benzo(g,h,i)perylene			96.9		%		50-140	26-AUG-15
Benzo(k)fluoranthene			98.5				50-140	



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch	R3254254							
WG2153749-3	IRM	ALS PAH1 RM						
Benzo(k)fluoranthene			98.5		%		50-140	26-AUG-15
Chrysene			119.7		%		50-140	26-AUG-15
Dibenzo(ah)anthracene			124.3		%		50-140	26-AUG-15
Fluoranthene			111.8		%		50-140	26-AUG-15
Fluorene			69.2		%		50-140	26-AUG-15
Indeno(1,2,3-cd)pyrene			89.5		%		50-140	26-AUG-15
Naphthalene			93.5		%		50-140	26-AUG-15
Phenanthrene			103.2		%		50-140	26-AUG-15
Pyrene			109.1		%		50-140	26-AUG-15
WG2153749-2	LCS							
1-Methylnaphthalene			87.3		%		50-140	26-AUG-15
2-Methylnaphthalene			88.0		%		50-140	26-AUG-15
Acenaphthene			89.7		%		50-140	26-AUG-15
Acenaphthylene			90.2		%		50-140	26-AUG-15
Anthracene			89.7		%		50-140	26-AUG-15
Benzo(a)anthracene			86.3		%		50-140	26-AUG-15
Benzo(a)pyrene			93.3		%		50-140	26-AUG-15
Benzo(b)fluoranthene			88.5		%		50-140	26-AUG-15
Benzo(g,h,i)perylene			74.0		%		50-140	26-AUG-15
Benzo(k)fluoranthene			86.6		%		50-140	26-AUG-15
Chrysene			93.1		%		50-140	26-AUG-15
Dibenzo(ah)anthracene			80.8		%		50-140	26-AUG-15
Fluoranthene			87.9		%		50-140	26-AUG-15
Fluorene			90.2		%		50-140	26-AUG-15
Indeno(1,2,3-cd)pyrene			78.5		%		50-140	26-AUG-15
Naphthalene			87.6		%		50-140	26-AUG-15
Phenanthrene			87.4		%		50-140	26-AUG-15
Pyrene			93.3		%		50-140	26-AUG-15
WG2153749-1	MB							
1-Methylnaphthalene			<0.030		ug/g		0.03	26-AUG-15
2-Methylnaphthalene			<0.030		ug/g		0.03	26-AUG-15
Acenaphthene			<0.050		ug/g		0.05	26-AUG-15
Acenaphthylene			<0.050		ug/g		0.05	26-AUG-15
Anthracene			<0.050		ug/g		0.05	26-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R3254254							
WG2153749-1 MB								
Benzo(a)anthracene			<0.050		ug/g		0.05	26-AUG-15
Benzo(a)pyrene			<0.050		ug/g		0.05	26-AUG-15
Benzo(b)fluoranthene			<0.050		ug/g		0.05	26-AUG-15
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	26-AUG-15
Benzo(k)fluoranthene			<0.050		ug/g		0.05	26-AUG-15
Chrysene			<0.050		ug/g		0.05	26-AUG-15
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	26-AUG-15
Fluoranthene			<0.050		ug/g		0.05	26-AUG-15
Fluorene			<0.050		ug/g		0.05	26-AUG-15
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	26-AUG-15
Naphthalene			<0.050		ug/g		0.05	26-AUG-15
Phenanthrene			<0.050		ug/g		0.05	26-AUG-15
Pyrene			<0.050		ug/g		0.05	26-AUG-15
Surrogate: 2-Fluorobiphenyl			89.4		%		50-140	26-AUG-15
Surrogate: p-Terphenyl d14			85.3		%		50-140	26-AUG-15
PEST-OC-511-WT		Soil						
Batch	R3252425							
WG2153809-4 DUP	WG2153809-3							
Aldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
a-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
g-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
op-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
pp-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
o,p-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
pp-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
op-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
pp-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
Dieldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
Endosulfan I		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
Endosulfan II		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
Endrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
gamma-hexachlorocyclohexane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-AUG-15
Heptachlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT								
	Soil							
Batch	R3252425							
WG2153809-4	DUP	WG2153809-3						
Heptachlor Epoxide		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
Hexachlorobenzene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-AUG-15
Hexachlorobutadiene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-AUG-15
Hexachloroethane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-AUG-15
Methoxychlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
WG2153809-2	LCS							
Aldrin			99.8		%		50-140	24-AUG-15
a-chlordane			94.5		%		50-140	24-AUG-15
g-chlordane			98.4		%		50-140	24-AUG-15
op-DDD			92.4		%		50-140	24-AUG-15
pp-DDD			88.8		%		50-140	24-AUG-15
o,p-DDE			88.7		%		50-140	24-AUG-15
pp-DDE			94.0		%		50-140	24-AUG-15
op-DDT			86.8		%		50-140	24-AUG-15
pp-DDT			87.5		%		50-140	24-AUG-15
Dieldrin			89.8		%		50-140	24-AUG-15
Endosulfan I			89.3		%		50-140	24-AUG-15
Endosulfan II			106.5		%		50-140	24-AUG-15
Endrin			112.4		%		50-140	24-AUG-15
gamma-hexachlorocyclohexane			97.1		%		50-140	24-AUG-15
Heptachlor			96.2		%		50-140	24-AUG-15
Heptachlor Epoxide			89.5		%		50-140	24-AUG-15
Hexachlorobenzene			93.7		%		50-140	24-AUG-15
Hexachlorobutadiene			100.9		%		50-140	24-AUG-15
Hexachloroethane			99.9		%		50-140	24-AUG-15
Methoxychlor			95.1		%		50-140	24-AUG-15
WG2153809-1	MB							
Aldrin			<0.020		ug/g		0.02	24-AUG-15
a-chlordane			<0.020		ug/g		0.02	24-AUG-15
g-chlordane			<0.020		ug/g		0.02	24-AUG-15
op-DDD			<0.020		ug/g		0.02	24-AUG-15
pp-DDD			<0.020		ug/g		0.02	24-AUG-15
o,p-DDE			<0.020		ug/g		0.02	24-AUG-15
pp-DDE			<0.020		ug/g		0.02	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT								
	Soil							
Batch	R3252425							
WG2153809-1	MB							
op-DDT			<0.020		ug/g		0.02	24-AUG-15
pp-DDT			<0.020		ug/g		0.02	24-AUG-15
Dieldrin			<0.020		ug/g		0.02	24-AUG-15
Endosulfan I			<0.020		ug/g		0.02	24-AUG-15
Endosulfan II			<0.020		ug/g		0.02	24-AUG-15
Endrin			<0.020		ug/g		0.02	24-AUG-15
gamma-hexachlorocyclohexane			<0.010		ug/g		0.01	24-AUG-15
Heptachlor			<0.020		ug/g		0.02	24-AUG-15
Heptachlor Epoxide			<0.020		ug/g		0.02	24-AUG-15
Hexachlorobenzene			<0.010		ug/g		0.01	24-AUG-15
Hexachlorobutadiene			<0.010		ug/g		0.01	24-AUG-15
Hexachloroethane			<0.010		ug/g		0.01	24-AUG-15
Methoxychlor			<0.020		ug/g		0.02	24-AUG-15
Surrogate: 2-Fluorobiphenyl			93.9		%		50-140	24-AUG-15
Surrogate: d14-Terphenyl			94.7		%		50-140	24-AUG-15
WG2153809-5	MS	WG2153809-3						
Aldrin			90.5		%		50-140	24-AUG-15
a-chlordane			76.6		%		50-140	24-AUG-15
g-chlordane			78.1		%		50-140	24-AUG-15
op-DDD			74.4		%		50-140	24-AUG-15
pp-DDD			89.6		%		50-140	24-AUG-15
o,p-DDE			74.2		%		50-140	24-AUG-15
pp-DDE			76.5		%		50-140	24-AUG-15
op-DDT			72.7		%		50-140	24-AUG-15
pp-DDT			80.2		%		50-140	24-AUG-15
Dieldrin			73.4		%		50-140	24-AUG-15
Endosulfan I			71.4		%		50-140	24-AUG-15
Endosulfan II			74.2		%		50-140	24-AUG-15
Endrin			100.5		%		50-150	24-AUG-15
gamma-hexachlorocyclohexane			80.0		%		50-140	24-AUG-15
Heptachlor			83.7		%		50-140	24-AUG-15
Heptachlor Epoxide			74.4		%		50-140	24-AUG-15
Hexachlorobenzene			79.9		%		50-140	24-AUG-15
Hexachlorobutadiene			85.2		%		50-140	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT								
	Soil							
Batch	R3252425							
WG2153809-5 MS		WG2153809-3						
Hexachloroethane			84.7		%		50-140	24-AUG-15
Methoxychlor			85.0		%		50-140	24-AUG-15
PH-R511-WT								
	Soil							
Batch	R3251697							
WG2154220-1 DUP		L1660729-1						
pH		6.87	6.83	J	pH units	0.04	0.3	22-AUG-15
WG2155305-2 LCS								
pH			7.05		pH units		6.7-7.3	22-AUG-15
SAR-R511-WT								
	Soil							
Batch	R3256812							
WG2160189-4 DUP		WG2160189-3						
Calcium (Ca)		27.6	33.9		mg/L	21	40	29-AUG-15
Sodium (Na)		1.3	1.5		mg/L	14	40	29-AUG-15
Magnesium (Mg)		2.2	2.4		mg/L	10	40	29-AUG-15
WG2160189-2 IRM		WT SAR1						
Calcium (Ca)			109.3		%		70-130	29-AUG-15
Sodium (Na)			103.4		%		70-130	29-AUG-15
Magnesium (Mg)			106.3		%		70-130	29-AUG-15
WG2160189-1 MB								
Calcium (Ca)			<1.0		mg/L		1	29-AUG-15
Sodium (Na)			<1.0		mg/L		1	29-AUG-15
Magnesium (Mg)			<1.0		mg/L		1	29-AUG-15
VOC-511-HS-WT								
	Soil							
Batch	R3252144							
WG2154427-3 DUP		WG2154427-5						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R3252144							
WG2154427-3	DUP	WG2154427-5						
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-AUG-15
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	24-AUG-15
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-AUG-15
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	24-AUG-15
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
m+p-Xylenes		0.039	0.039		ug/g	0.6	40	24-AUG-15
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-AUG-15
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-AUG-15
o-Xylene		0.038	0.037		ug/g	0.6	40	24-AUG-15
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	24-AUG-15
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-AUG-15
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-AUG-15
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-AUG-15
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
WG2154427-2	LCS							
1,1,1,2-Tetrachloroethane			101.0		%		60-130	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
 1023 Rife Road, Unit A
 Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R3252144							
WG2154427-2	LCS							
1,1,2,2-Tetrachloroethane			114.8		%		60-130	24-AUG-15
1,1,1-Trichloroethane			105.1		%		60-130	24-AUG-15
1,1,2-Trichloroethane			106.0		%		60-130	24-AUG-15
1,1-Dichloroethane			82.0		%		60-130	24-AUG-15
1,1-Dichloroethylene			89.4		%		60-130	24-AUG-15
1,2-Dibromoethane			99.6		%		70-130	24-AUG-15
1,2-Dichlorobenzene			100.5		%		70-130	24-AUG-15
1,2-Dichloroethane			106.9		%		60-130	24-AUG-15
1,2-Dichloropropane			109.7		%		70-130	24-AUG-15
1,3-Dichlorobenzene			97.2		%		70-130	24-AUG-15
1,4-Dichlorobenzene			98.2		%		70-130	24-AUG-15
Acetone			116.7		%		60-140	24-AUG-15
Benzene			101.0		%		70-130	24-AUG-15
Bromodichloromethane			108.4		%		50-140	24-AUG-15
Bromoform			113.4		%		70-130	24-AUG-15
Bromomethane			98.8		%		50-140	24-AUG-15
Carbon tetrachloride			103.6		%		70-130	24-AUG-15
Chlorobenzene			98.2		%		70-130	24-AUG-15
Chloroform			104.0		%		70-130	24-AUG-15
cis-1,2-Dichloroethylene			102.0		%		70-130	24-AUG-15
cis-1,3-Dichloropropene			101.4		%		70-130	24-AUG-15
Dibromochloromethane			105.8		%		60-130	24-AUG-15
Dichlorodifluoromethane			75.6		%		50-140	24-AUG-15
Ethylbenzene			91.7		%		70-130	24-AUG-15
n-Hexane			103.8		%		70-130	24-AUG-15
Methylene Chloride			104.9		%		70-130	24-AUG-15
MTBE			102.1		%		70-130	24-AUG-15
m+p-Xylenes			94.6		%		70-130	24-AUG-15
Methyl Ethyl Ketone			105.6		%		60-140	24-AUG-15
Methyl Isobutyl Ketone			119.1		%		60-140	24-AUG-15
o-Xylene			103.2		%		70-130	24-AUG-15
Styrene			106.9		%		70-130	24-AUG-15
Tetrachloroethylene			108.4		%		60-130	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch	R3252144							
WG2154427-2	LCS							
Toluene			108.9		%		70-130	24-AUG-15
trans-1,2-Dichloroethylene			101.3		%		60-130	24-AUG-15
trans-1,3-Dichloropropene			99.2		%		70-130	24-AUG-15
Trichloroethylene			103.5		%		60-130	24-AUG-15
Trichlorofluoromethane			105.2		%		50-140	24-AUG-15
Vinyl chloride			93.0		%		60-140	24-AUG-15
WG2154427-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1,1-Trichloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1,2-Trichloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1-Dichloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1-Dichloroethylene			<0.050		ug/g		0.05	24-AUG-15
1,2-Dibromoethane			<0.050		ug/g		0.05	24-AUG-15
1,2-Dichlorobenzene			<0.050		ug/g		0.05	24-AUG-15
1,2-Dichloroethane			<0.050		ug/g		0.05	24-AUG-15
1,2-Dichloropropane			<0.050		ug/g		0.05	24-AUG-15
1,3-Dichlorobenzene			<0.050		ug/g		0.05	24-AUG-15
1,4-Dichlorobenzene			<0.050		ug/g		0.05	24-AUG-15
Acetone			<0.50		ug/g		0.5	24-AUG-15
Benzene			<0.0068		ug/g		0.0068	24-AUG-15
Bromodichloromethane			<0.050		ug/g		0.05	24-AUG-15
Bromoform			<0.050		ug/g		0.05	24-AUG-15
Bromomethane			<0.050		ug/g		0.05	24-AUG-15
Carbon tetrachloride			<0.050		ug/g		0.05	24-AUG-15
Chlorobenzene			<0.050		ug/g		0.05	24-AUG-15
Chloroform			<0.050		ug/g		0.05	24-AUG-15
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	24-AUG-15
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	24-AUG-15
Dibromochloromethane			<0.050		ug/g		0.05	24-AUG-15
Dichlorodifluoromethane			<0.050		ug/g		0.05	24-AUG-15
Ethylbenzene			<0.018		ug/g		0.018	24-AUG-15
n-Hexane			<0.050		ug/g		0.05	24-AUG-15
Methylene Chloride			<0.050		ug/g		0.05	24-AUG-15



Environmental

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Client: ECOSYSTEM RECOVERY INC.
 1023 Rife Road, Unit A
 Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R3252144							
WG2154427-1	MB							
MTBE			<0.050		ug/g		0.05	24-AUG-15
m+p-Xylenes			<0.030		ug/g		0.03	24-AUG-15
Methyl Ethyl Ketone			<0.50		ug/g		0.5	24-AUG-15
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	24-AUG-15
o-Xylene			<0.020		ug/g		0.02	24-AUG-15
Styrene			<0.050		ug/g		0.05	24-AUG-15
Tetrachloroethylene			<0.050		ug/g		0.05	24-AUG-15
Toluene			<0.080		ug/g		0.08	24-AUG-15
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	24-AUG-15
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	24-AUG-15
Trichloroethylene			<0.010		ug/g		0.01	24-AUG-15
Trichlorofluoromethane			<0.050		ug/g		0.05	24-AUG-15
Vinyl chloride			<0.020		ug/g		0.02	24-AUG-15
Surrogate: 1,4-Difluorobenzene			99.6		%		70-130	24-AUG-15
Surrogate: 4-Bromofluorobenzene			100.7		%		70-130	24-AUG-15
WG2154427-4	MS	WG2154427-5						
1,1,1,2-Tetrachloroethane			98.0		%		50-140	24-AUG-15
1,1,2,2-Tetrachloroethane			111.0		%		50-140	24-AUG-15
1,1,1-Trichloroethane			101.2		%		50-140	24-AUG-15
1,1,2-Trichloroethane			136.4		%		50-140	24-AUG-15
1,1-Dichloroethane			80.3		%		50-140	24-AUG-15
1,1-Dichloroethylene			80.6		%		50-140	24-AUG-15
1,2-Dibromoethane			112.7		%		50-140	24-AUG-15
1,2-Dichlorobenzene			99.8		%		50-140	24-AUG-15
1,2-Dichloroethane			104.5		%		50-140	24-AUG-15
1,2-Dichloropropane			101.9		%		50-140	24-AUG-15
1,3-Dichlorobenzene			94.9		%		50-140	24-AUG-15
1,4-Dichlorobenzene			94.6		%		50-140	24-AUG-15
Acetone			74.9		%		50-140	24-AUG-15
Benzene			96.3		%		50-140	24-AUG-15
Bromodichloromethane			98.2		%		50-140	24-AUG-15
Bromoform			117.8		%		50-140	24-AUG-15
Bromomethane			82.0		%		50-140	24-AUG-15
Carbon tetrachloride			97.9		%		50-140	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R3252144							
WG2154427-4	MS	WG2154427-5						
Chlorobenzene			99.2		%		50-140	24-AUG-15
Chloroform			100.4		%		50-140	24-AUG-15
cis-1,2-Dichloroethylene			100.3		%		50-140	24-AUG-15
cis-1,3-Dichloropropene			90.1		%		50-140	24-AUG-15
Dibromochloromethane			108.6		%		50-140	24-AUG-15
Dichlorodifluoromethane			62.4		%		50-140	24-AUG-15
Ethylbenzene			91.4		%		50-140	24-AUG-15
n-Hexane			93.3		%		50-140	24-AUG-15
Methylene Chloride			97.0		%		50-140	24-AUG-15
MTBE			99.3		%		50-140	24-AUG-15
m+p-Xylenes			93.8		%		50-140	24-AUG-15
Methyl Ethyl Ketone			107.8		%		50-140	24-AUG-15
Methyl Isobutyl Ketone			109.6		%		50-140	24-AUG-15
o-Xylene			97.9		%		50-140	24-AUG-15
Styrene			100.9		%		50-140	24-AUG-15
Tetrachloroethylene			109.4		%		50-140	24-AUG-15
Toluene			111.9		%		50-140	24-AUG-15
trans-1,2-Dichloroethylene			92.3		%		50-140	24-AUG-15
trans-1,3-Dichloropropene			117.1		%		50-140	24-AUG-15
Trichloroethylene			100.3		%		50-140	24-AUG-15
Trichlorofluoromethane			90.1		%		50-140	24-AUG-15
Vinyl chloride			76.3		%		50-140	24-AUG-15
Batch	R3252341							
WG2154724-3	DUP	WG2154724-5						
1,1,1,2-Tetrachloroethane			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1,2,2-Tetrachloroethane			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1,1-Trichloroethane			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1,2-Trichloroethane			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1-Dichloroethane			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,1-Dichloroethylene			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,2-Dibromoethane			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,2-Dichlorobenzene			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,2-Dichloroethane			<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R3252341							
WG2154724-3	DUP	WG2154724-5						
1,2-Dichloropropane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,3-Dichlorobenzene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
1,4-Dichlorobenzene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Acetone		<1.0	<1.0	RPD-NA	ug/g	N/A	40	26-AUG-15
Benzene		<0.014	<0.014	RPD-NA	ug/g	N/A	40	24-AUG-15
Bromodichloromethane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Bromoform		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Bromomethane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Carbon tetrachloride		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Chlorobenzene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Chloroform		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
cis-1,2-Dichloroethylene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
cis-1,3-Dichloropropene		<0.060	<0.060	RPD-NA	ug/g	N/A	40	24-AUG-15
Dibromochloromethane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Dichlorodifluoromethane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Ethylbenzene		<0.036	<0.036	RPD-NA	ug/g	N/A	40	24-AUG-15
n-Hexane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Methylene Chloride		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
MTBE		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
m+p-Xylenes		<0.060	<0.060	RPD-NA	ug/g	N/A	40	24-AUG-15
Methyl Ethyl Ketone		<1.0	<1.0	RPD-NA	ug/g	N/A	40	24-AUG-15
Methyl Isobutyl Ketone		<1.0	<1.0	RPD-NA	ug/g	N/A	40	24-AUG-15
o-Xylene		<0.040	<0.040	RPD-NA	ug/g	N/A	40	24-AUG-15
Styrene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Tetrachloroethylene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Toluene		<0.16	<0.16	RPD-NA	ug/g	N/A	40	24-AUG-15
trans-1,2-Dichloroethylene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
trans-1,3-Dichloropropene		<0.060	<0.060	RPD-NA	ug/g	N/A	40	24-AUG-15
Trichloroethylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-AUG-15
Trichlorofluoromethane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-AUG-15
Vinyl chloride		<0.040	<0.040	RPD-NA	ug/g	N/A	40	24-AUG-15
WG2154724-2	LCS							
1,1,1,2-Tetrachloroethane			104.3		%		60-130	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R3252341							
WG2154724-2	LCS							
1,1,2,2-Tetrachloroethane			110.0		%		60-130	24-AUG-15
1,1,1-Trichloroethane			107.0		%		60-130	24-AUG-15
1,1,2-Trichloroethane			117.8		%		60-130	24-AUG-15
1,1-Dichloroethane			106.8		%		60-130	24-AUG-15
1,1-Dichloroethylene			111.0		%		60-130	24-AUG-15
1,2-Dibromoethane			108.3		%		70-130	24-AUG-15
1,2-Dichlorobenzene			110.0		%		70-130	24-AUG-15
1,2-Dichloroethane			107.5		%		60-130	24-AUG-15
1,2-Dichloropropane			123.9		%		70-130	24-AUG-15
1,3-Dichlorobenzene			105.5		%		70-130	24-AUG-15
1,4-Dichlorobenzene			107.4		%		70-130	24-AUG-15
Acetone			129.3		%		60-140	24-AUG-15
Benzene			119.8		%		70-130	24-AUG-15
Bromodichloromethane			104.8		%		50-140	24-AUG-15
Bromoform			95.4		%		70-130	24-AUG-15
Bromomethane			111.7		%		50-140	24-AUG-15
Carbon tetrachloride			101.2		%		70-130	24-AUG-15
Chlorobenzene			110.2		%		70-130	24-AUG-15
Chloroform			113.6		%		70-130	24-AUG-15
cis-1,2-Dichloroethylene			111.1		%		70-130	24-AUG-15
cis-1,3-Dichloropropene			108.5		%		70-130	24-AUG-15
Dibromochloromethane			104.0		%		60-130	24-AUG-15
Dichlorodifluoromethane			76.9		%		50-140	24-AUG-15
Ethylbenzene			104.4		%		70-130	24-AUG-15
n-Hexane			134.0	MES	%		70-130	24-AUG-15
Methylene Chloride			117.4		%		70-130	24-AUG-15
MTBE			105.2		%		70-130	24-AUG-15
m+p-Xylenes			108.4		%		70-130	24-AUG-15
Methyl Ethyl Ketone			119.7		%		60-140	24-AUG-15
Methyl Isobutyl Ketone			112.2		%		60-140	24-AUG-15
o-Xylene			103.0		%		70-130	24-AUG-15
Styrene			98.4		%		70-130	24-AUG-15
Tetrachloroethylene			102.6		%		60-130	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R3252341							
WG2154724-2	LCS							
Toluene			110.5		%		70-130	24-AUG-15
trans-1,2-Dichloroethylene			123.0		%		60-130	24-AUG-15
trans-1,3-Dichloropropene			108.4		%		70-130	24-AUG-15
Trichloroethylene			101.9		%		60-130	24-AUG-15
Trichlorofluoromethane			110.8		%		50-140	24-AUG-15
Vinyl chloride			120.2		%		60-140	24-AUG-15
WG2154724-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1,1-Trichloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1,2-Trichloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1-Dichloroethane			<0.050		ug/g		0.05	24-AUG-15
1,1-Dichloroethylene			<0.050		ug/g		0.05	24-AUG-15
1,2-Dibromoethane			<0.050		ug/g		0.05	24-AUG-15
1,2-Dichlorobenzene			<0.050		ug/g		0.05	24-AUG-15
1,2-Dichloroethane			<0.050		ug/g		0.05	24-AUG-15
1,2-Dichloropropane			<0.050		ug/g		0.05	24-AUG-15
1,3-Dichlorobenzene			<0.050		ug/g		0.05	24-AUG-15
1,4-Dichlorobenzene			<0.050		ug/g		0.05	24-AUG-15
Acetone			<0.50		ug/g		0.5	24-AUG-15
Benzene			<0.0068		ug/g		0.0068	24-AUG-15
Bromodichloromethane			<0.050		ug/g		0.05	24-AUG-15
Bromoform			<0.050		ug/g		0.05	24-AUG-15
Bromomethane			<0.050		ug/g		0.05	24-AUG-15
Carbon tetrachloride			<0.050		ug/g		0.05	24-AUG-15
Chlorobenzene			<0.050		ug/g		0.05	24-AUG-15
Chloroform			<0.050		ug/g		0.05	24-AUG-15
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	24-AUG-15
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	24-AUG-15
Dibromochloromethane			<0.050		ug/g		0.05	24-AUG-15
Dichlorodifluoromethane			<0.050		ug/g		0.05	24-AUG-15
Ethylbenzene			<0.018		ug/g		0.018	24-AUG-15
n-Hexane			<0.050		ug/g		0.05	24-AUG-15
Methylene Chloride			<0.050		ug/g		0.05	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R3252341							
WG2154724-1	MB							
MTBE			<0.050		ug/g		0.05	24-AUG-15
m+p-Xylenes			<0.030		ug/g		0.03	24-AUG-15
Methyl Ethyl Ketone			<0.50		ug/g		0.5	24-AUG-15
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	24-AUG-15
o-Xylene			<0.020		ug/g		0.02	24-AUG-15
Styrene			<0.050		ug/g		0.05	24-AUG-15
Tetrachloroethylene			<0.050		ug/g		0.05	24-AUG-15
Toluene			<0.080		ug/g		0.08	24-AUG-15
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	24-AUG-15
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	24-AUG-15
Trichloroethylene			<0.010		ug/g		0.01	24-AUG-15
Trichlorofluoromethane			<0.050		ug/g		0.05	24-AUG-15
Vinyl chloride			<0.020		ug/g		0.02	24-AUG-15
Surrogate: 1,4-Difluorobenzene			105.5		%		70-130	24-AUG-15
Surrogate: 4-Bromofluorobenzene			98.7		%		70-130	24-AUG-15
WG2154724-4	MS	WG2154724-5						
1,1,1,2-Tetrachloroethane			103.1		%		50-140	24-AUG-15
1,1,2,2-Tetrachloroethane			116.2		%		50-140	24-AUG-15
1,1,1-Trichloroethane			102.0		%		50-140	24-AUG-15
1,1,2-Trichloroethane			122.9		%		50-140	24-AUG-15
1,1-Dichloroethane			106.2		%		50-140	24-AUG-15
1,1-Dichloroethylene			100.5		%		50-140	24-AUG-15
1,2-Dibromoethane			113.0		%		50-140	24-AUG-15
1,2-Dichlorobenzene			106.2		%		50-140	24-AUG-15
1,2-Dichloroethane			114.2		%		50-140	24-AUG-15
1,2-Dichloropropane			126.2		%		50-140	24-AUG-15
1,3-Dichlorobenzene			98.0		%		50-140	24-AUG-15
1,4-Dichlorobenzene			101.0		%		50-140	24-AUG-15
Acetone			141.0	MES	%		50-140	24-AUG-15
Benzene			118.0		%		50-140	24-AUG-15
Bromodichloromethane			109.0		%		50-140	24-AUG-15
Bromoform			100.7		%		50-140	24-AUG-15
Bromomethane			103.5		%		50-140	24-AUG-15
Carbon tetrachloride			94.5		%		50-140	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R3252341							
WG2154724-4	MS	WG2154724-5						
Chlorobenzene			107.1		%		50-140	24-AUG-15
Chloroform			114.6		%		50-140	24-AUG-15
cis-1,2-Dichloroethylene			110.5		%		50-140	24-AUG-15
cis-1,3-Dichloropropene			101.9		%		50-140	24-AUG-15
Dibromochloromethane			108.1		%		50-140	24-AUG-15
Dichlorodifluoromethane			40.9	MES	%		50-140	24-AUG-15
Ethylbenzene			90.9		%		50-140	24-AUG-15
n-Hexane			95.1		%		50-140	24-AUG-15
Methylene Chloride			120.3		%		50-140	24-AUG-15
MTBE			103.7		%		50-140	24-AUG-15
m+p-Xylenes			96.6		%		50-140	24-AUG-15
Methyl Ethyl Ketone			136.8		%		50-140	24-AUG-15
Methyl Isobutyl Ketone			124.9		%		50-140	24-AUG-15
o-Xylene			91.6		%		50-140	24-AUG-15
Styrene			87.1		%		50-140	24-AUG-15
Tetrachloroethylene			89.5		%		50-140	24-AUG-15
Toluene			100.9		%		50-140	24-AUG-15
trans-1,2-Dichloroethylene			115.2		%		50-140	24-AUG-15
trans-1,3-Dichloropropene			99.7		%		50-140	24-AUG-15
Trichloroethylene			95.6		%		50-140	24-AUG-15
Trichlorofluoromethane			92.7		%		50-140	24-AUG-15
Vinyl chloride			102.4		%		50-140	24-AUG-15
CN-TCLP-WT		Waste						
Batch	R3252758							
WG2155995-3	DUP	L1660225-1						
Cyanide, Weak Acid Diss		<0.10	<0.10	RPD-NA	mg/L	N/A	20	24-AUG-15
WG2155995-2	LCS							
Cyanide, Weak Acid Diss			94.8		%		70-130	24-AUG-15
WG2155995-1	MB							
Cyanide, Weak Acid Diss			<0.10		mg/L		0.1	24-AUG-15
WG2155995-4	MS	L1660225-1						
Cyanide, Weak Acid Diss			91.0		%		50-150	24-AUG-15
F-TCLP-WT		Waste						



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Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-TCLP-WT		Waste						
Batch	R3254613							
WG2157829-3	DUP	L1660225-1						
Fluoride (F)		<10	<10	RPD-NA	mg/L	N/A	30	26-AUG-15
WG2157829-2	LCS							
Fluoride (F)			90.2		%		70-130	26-AUG-15
WG2157829-1	MB							
Fluoride (F)			<10		mg/L		10	26-AUG-15
WG2157829-4	MS	L1660225-1						
Fluoride (F)			98.4		%		50-150	26-AUG-15
HG-TCLP-WT		Waste						
Batch	R3252294							
WG2155827-3	DUP	L1660225-1						
Mercury (Hg)		<0.00010	<0.00010	RPD-NA	mg/L	N/A	50	24-AUG-15
WG2155827-2	LCS							
Mercury (Hg)			97.3		%		70-130	24-AUG-15
WG2155827-1	MB							
Mercury (Hg)			<0.00010		mg/L		0.0001	24-AUG-15
WG2155827-4	MS	L1660225-1						
Mercury (Hg)			94.3		%		50-140	24-AUG-15
MET-TCLP-WT		Waste						
Batch	R3252744							
WG2155709-4	DUP	WG2155709-3						
Silver (Ag)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	40	24-AUG-15
Arsenic (As)		0.096	0.093		mg/L	2.6	40	24-AUG-15
Boron (B)		<2.5	<2.5	RPD-NA	mg/L	N/A	40	24-AUG-15
Barium (Ba)		<0.50	<0.50	RPD-NA	mg/L	N/A	40	24-AUG-15
Cadmium (Cd)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	40	24-AUG-15
Chromium (Cr)		<0.050	<0.050	RPD-NA	mg/L	N/A	40	24-AUG-15
Lead (Pb)		<0.050	<0.050	RPD-NA	mg/L	N/A	40	24-AUG-15
Selenium (Se)		<0.25	<0.25	RPD-NA	mg/L	N/A	40	24-AUG-15
Uranium (U)		<0.25	<0.25	RPD-NA	mg/L	N/A	40	24-AUG-15
WG2155709-2	LCS							
Silver (Ag)			102.4		%		70-130	24-AUG-15
Arsenic (As)			95.6		%		70-130	24-AUG-15
Boron (B)			91.6		%		70-130	24-AUG-15
Barium (Ba)			95.2		%		70-130	24-AUG-15
Cadmium (Cd)			95.5		%		70-130	24-AUG-15



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Client: ECOSYSTEM RECOVERY INC.
 1023 Rife Road, Unit A
 Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed	
MET-TCLP-WT		Waste							
Batch	R3252744								
WG2155709-2	LCS								
Chromium (Cr)			95.2		%		70-130	24-AUG-15	
Lead (Pb)			97.2		%		70-130	24-AUG-15	
Selenium (Se)			97.6		%		70-130	24-AUG-15	
Uranium (U)			99.2		%		70-130	24-AUG-15	
WG2155709-1	MB								
Silver (Ag)			<0.0050		mg/L		0.005	24-AUG-15	
Arsenic (As)			<0.050		mg/L		0.05	24-AUG-15	
Boron (B)			<2.5		mg/L		2.5	24-AUG-15	
Barium (Ba)			<0.50		mg/L		0.5	24-AUG-15	
Cadmium (Cd)			<0.0050		mg/L		0.005	24-AUG-15	
Chromium (Cr)			<0.050		mg/L		0.05	24-AUG-15	
Lead (Pb)			<0.050		mg/L		0.05	24-AUG-15	
Selenium (Se)			<0.25		mg/L		0.25	24-AUG-15	
Uranium (U)			<0.25		mg/L		0.25	24-AUG-15	
WG2155709-5	MS	WG2155709-3							
Silver (Ag)			93.9		%		50-150	24-AUG-15	
Arsenic (As)			102.0		%		50-150	24-AUG-15	
Boron (B)			98.1		%		50-150	24-AUG-15	
Barium (Ba)			99.1		%		50-150	24-AUG-15	
Cadmium (Cd)			101.3		%		50-150	24-AUG-15	
Chromium (Cr)			100.0		%		50-150	24-AUG-15	
Lead (Pb)			98.9		%		50-150	24-AUG-15	
Selenium (Se)			102.8		%		50-150	24-AUG-15	
Uranium (U)			102.7		%		50-150	24-AUG-15	
N2N3-TCLP-WT		Waste							
Batch	R3254613								
WG2157829-3	DUP	L1660225-1							
Nitrate-N			<2.0	<2.0	RPD-NA	mg/L	N/A	30	26-AUG-15
Nitrite-N			<2.0	<2.0	RPD-NA	mg/L	N/A	30	26-AUG-15
WG2157829-2	LCS								
Nitrate-N			98.9		%		70-130	26-AUG-15	
Nitrite-N			101.3		%		70-130	26-AUG-15	
WG2157829-1	MB								
Nitrate-N			<2.0		mg/L		2	26-AUG-15	



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Workorder: L1660729

Report Date: 04-SEP-15

Page 24 of 25

Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Contact: David Arseneau

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N2N3-TCLP-WT	Waste							
Batch	R3254613							
WG2157829-1	MB							
Nitrite-N			<2.0		mg/L		2	26-AUG-15
WG2157829-4	MS	L1660225-1						
Nitrate-N			96.4		%		50-150	26-AUG-15
Nitrite-N			95.4		%		50-150	26-AUG-15

Quality Control Report

Workorder: L1660729

Report Date: 04-SEP-15

Client: ECOSYSTEM RECOVERY INC.
1023 Rife Road, Unit A
Cambridge On N1R 5S3

Page 25 of 25

Contact: David Arseneau

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DLHM	Detection Limit Adjusted: Sample has High Moisture Content
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

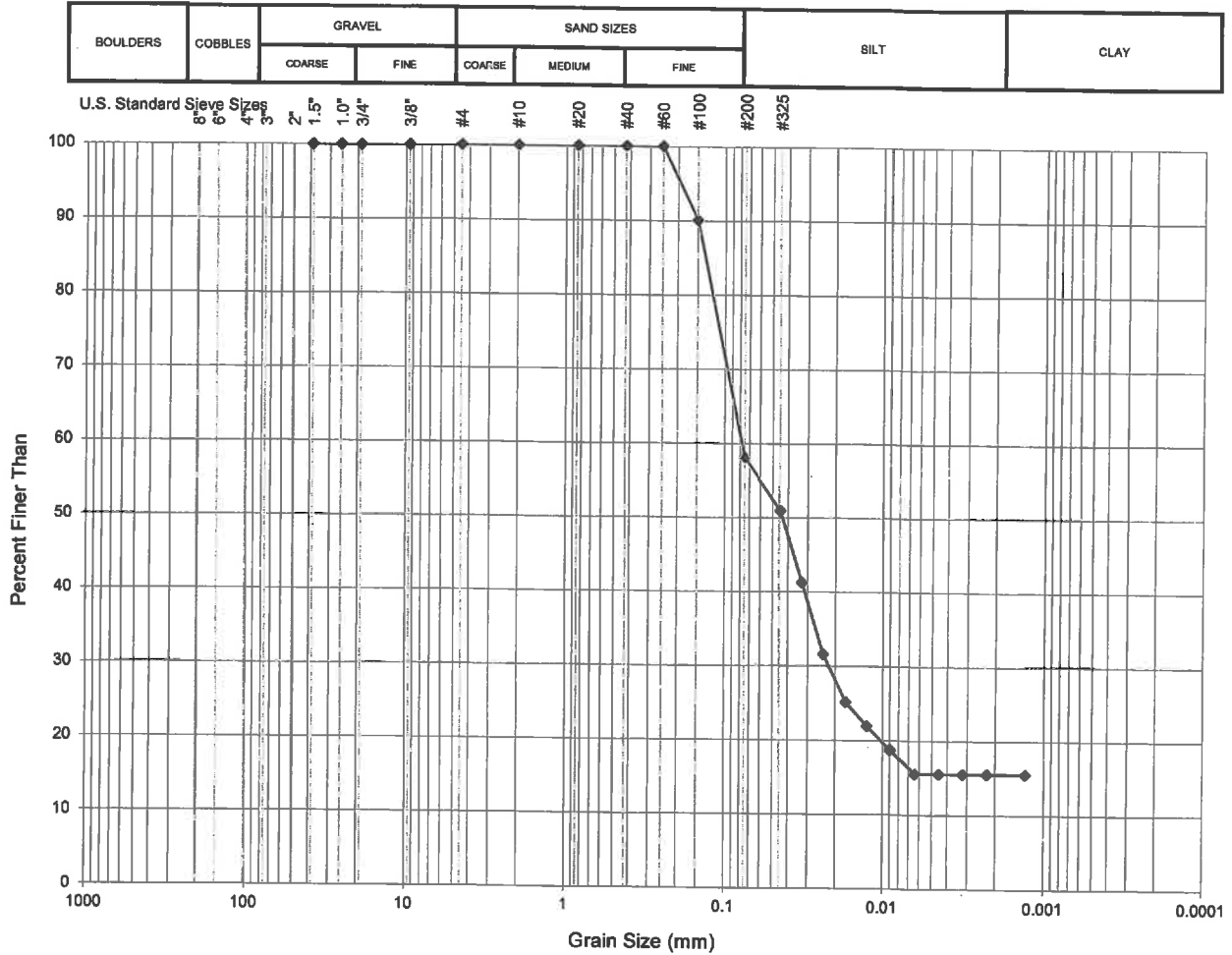
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

ALS Environmental
WATERLOO

PARTICLE SIZE DISTRIBUTION CURVE

ASTM METHOD D422-63

Project Name: ECOSYSTEM RECOVERY INC
 Project Number: EP24780
 Sample Location: HAR U/S
 Sample Number: L1660729-1
 Sample Depth: MPBH
 Lab ID Number: MPBH
 Technician: MPBH
 Sampler: MPBH
 Dates: 8/20/2015
 Collected On: 8/20/2015
 Analyzed: 9/3/2015



DESCRIPTION	SOIL CLASSIFICATION DESCRIPTIVE MODIFIERS	SUMMARY
SAND AND SILT WITH CLAY	AND 36 - 50 %	GRAVEL 0 %
Sample is Silica	ADJECTIVE (e.g. sandy) 21 - 35 %	SAND 42 %
ESTIMATED HAZEN NUMBER: 1.29E-05 cm/s	WITH 11 - 20 %	SILT + CLAY 58 %
NOTE: UNIFIED SOIL CLASSIFICATION SYSTEM	TRACE 1 - 10 %	

GRAIN SIZE DETERMINATIONS

Project Name: ECOSYSTEM RECOVERY INC
 Project Number: EP24780
 Sampler:
 Technician: MPBH
 Lab ID Number: L1660729-1

Sample Location:
 Sample Number: HAR U/S
 Sample Depth:
 Date Sampled: 8/20/2015
 Date Submitted: 8/20/2015
 Date Completed: 9/3/2015

Total Sample Weight 148 grams
 Hydro. Sample Weight 50.000 grams
 % Past #10 1.000 * 100
 Sub Factor 2.960

Specific Gravity: 2.650
 Liquid Specific Gravity: 1.000
 Grav Factor: 1.606

Sieve Size	Weight Retained (grams)	Percent Retained	Diameter (mm)	Cum. % Retained	Cum. % Passing
38.1 mm. DIA.:	0.000	0.000	38.100	0.000	100.000
25.4 mm. DIA.:	0.000	0.000	25.400	0.000	100.000
19.0 mm. DIA.:	0.000	0.000	19.000	0.000	100.000
9.5 mm. DIA.:	0.000	0.000	9.500	0.000	100.000
NO. 4 SIEVE :	0.000	0.000	4.500	0.000	100.000
NO. 10 SIEVE :	0.000	0.000	2.000	0.000	100.000
NO. 20 SIEVE :	0.000	0.000	0.850	0.000	100.000
NO. 40 SIEVE :	0.000	0.000	0.425	0.000	100.000
NO. 60 SIEVE :	0.000	0.000	0.250	0.000	100.000
NO. 100 SIEVE:	5.000	10.000	0.150	10.000	90.000
NO. 200 SIEVE:	16.000	32.000	0.075	42.000	58.000

Time (min)		Temperature (C)	Diameter (mm)	% Suspended (Subsample)	% Suspended (Total Sample)
1.00	18.0	23.7	0.044	50.821	50.821
2.00	15.0	23.7	0.032	41.184	41.184
4.00	12.0	23.7	0.024	31.548	31.548
8.00	10.0	23.7	0.017	25.124	25.124
15.00	9.0	23.7	0.013	21.911	21.911
30.00	8.0	23.7	0.009	18.699	18.699
60.00	7.0	23.7	0.006	15.487	15.487
120.00	7.0	23.7	0.005	15.487	15.487
240.00	7.0	23.7	0.003	15.487	15.487
480.00	7.0	23.7	0.002	15.487	15.487
1440.00	7.0	23.7	0.001	15.487	15.487

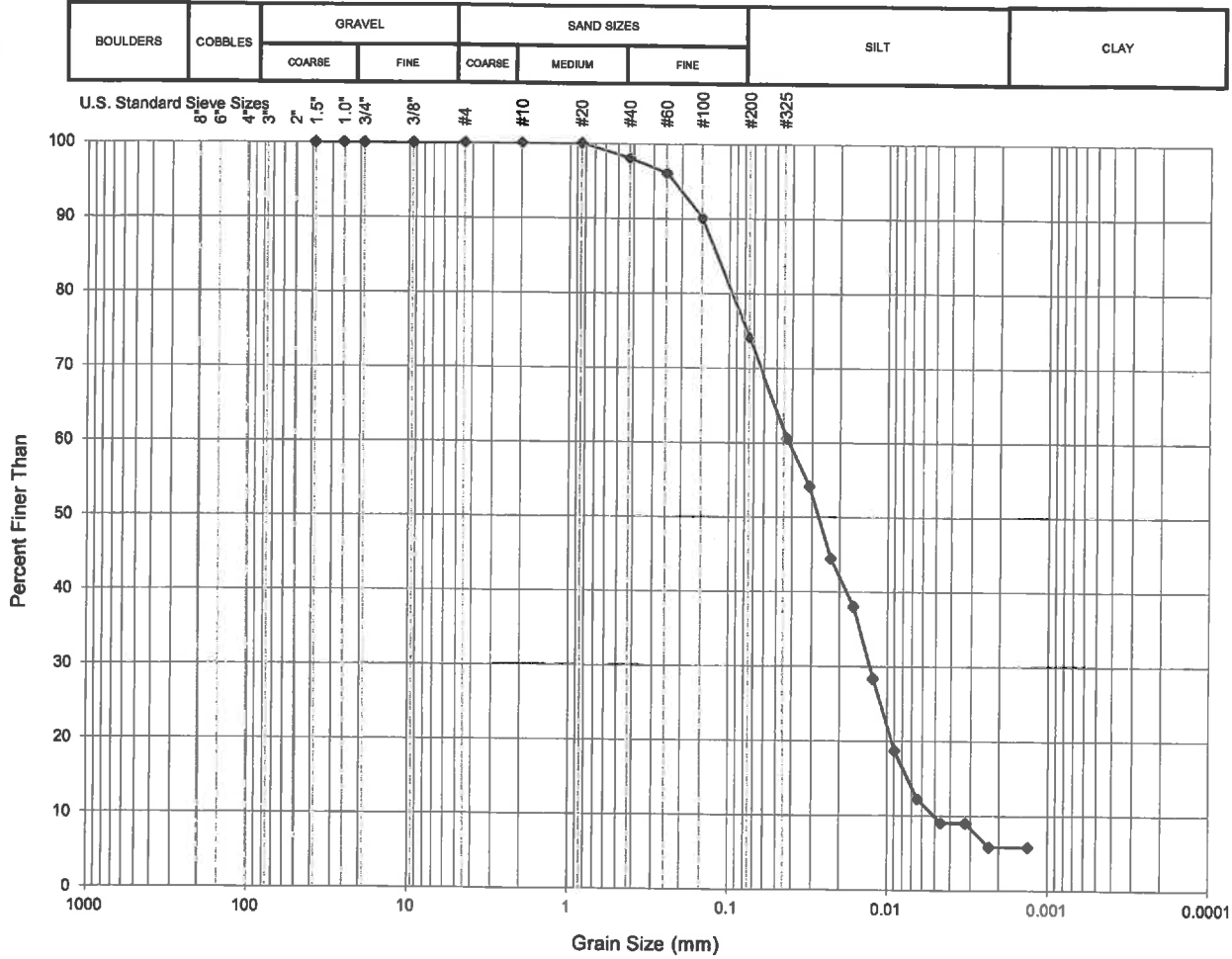
GRAIN SIZE	% BY WT.	DIA. RANGE (mm)
% GRAVEL :	0.00	> 4.5
% COARSE SAND :	0.00	2.0 - 4.5
% MEDIUM SAND :	0.00	0.425 - 2.0
% FINE SAND :	42.00	0.075 - 0.425
% SILT :	42.51	0.075 - 0.002
% CLAY :	15.49	< 0.002
% CLAY :	15.49	< 0.005

ALS Environmental
WATERLOO

PARTICLE SIZE DISTRIBUTION CURVE

ASTM METHOD D422-63

Project Name: ECOSYSTEM RECOVERY INC
 Project Number: EP24780
 Sample Location: HAR D/S
 Sample Number: HAR D/S
 Sample Depth: L1660729-2
 Lab ID Number: L1660729-2
 Technician: MPBH
 Sampler:
 Dates:
 Collected On: 8/20/2015
 Analyzed: 9/3/2015



DESCRIPTION	SOIL CLASSIFICATION DESCRIPTIVE MODIFIERS	SUMMARY
SANDY SILT, TRACE CLAY	AND 36 - 50 %	GRAVEL 0 %
	ADJECTIVE (e.g. sandy) 21 - 35 %	SAND 26 %
ESTIMATED HAZEN NUMBER: 2.58E-05 cm/s	WITH 11 - 20 %	SILT + CLAY 74 %
NOTE: UNIFIED SOIL CLASSIFICATION SYSTEM	TRACE 1 - 10 %	

GRAIN SIZE DETERMINATIONS

Project Name: ECOSYSTEM RECOVERY INC
 Project Number: EP24780
 Sampler:
 Technician: MPBH
 Lab ID Number: L1660729-2

Sample Location:
 Sample Number: HAR D/S
 Sample Depth:
 Date Sampled: 8/20/2015
 Date Submitted: 8/20/2015
 Date Completed: 9/3/2015

Total Sample Weight 112 grams
 Hydro. Sample Weight 50.000 grams
 % Past #10 1.000 * 100
 Sub Factor 2.240

Specific Gravity: 2.650
 Liquid Specific Gravity: 1.000
 Grav Factor: 1.606

Sieve Size	Weight Retained (grams)	Percent Retained	Diameter (mm)	Cum. % Retained	Cum. % Passing
38.1 mm. DIA.:	0.000	0.000	38.100	0.000	100.000
25.4 mm. DIA.:	0.000	0.000	25.400	0.000	100.000
19.0 mm. DIA.:	0.000	0.000	19.000	0.000	100.000
9.5 mm. DIA.:	0.000	0.000	9.500	0.000	100.000
NO. 4 SIEVE :	0.000	0.000	4.500	0.000	100.000
NO. 10 SIEVE :	0.000	0.000	2.000	0.000	100.000
NO. 20 SIEVE :	0.000	0.000	0.850	0.000	100.000
NO. 40 SIEVE :	1.000	2.000	0.425	2.000	98.000
NO. 60 SIEVE :	1.000	2.000	0.250	4.000	96.000
NO. 100 SIEVE:	3.000	6.000	0.150	10.000	90.000
NO. 200 SIEVE:	8.000	16.000	0.075	26.000	74.000

Time (min)		Temperature (C)	Diameter (mm)	% Suspended (Subsample)	% Suspended (Total Sample)
1.00	21.0	23.7	0.043	60.457	60.457
2.00	19.0	23.7	0.031	54.033	54.033
4.00	16.0	23.7	0.023	44.396	44.396
8.00	14.0	23.7	0.016	37.972	37.972
15.00	11.0	23.7	0.012	28.336	28.336
30.00	8.0	23.7	0.009	18.699	18.699
60.00	6.0	23.7	0.006	12.275	12.275
120.00	5.0	23.7	0.005	9.063	9.063
240.00	5.0	23.7	0.003	9.063	9.063
480.00	4.0	23.7	0.002	5.851	5.851
1440.00	4.0	23.7	0.001	5.851	5.851

GRAIN SIZE	% BY WT.	DIA. RANGE (mm)
% GRAVEL :	0.00	> 4.5
% COARSE SAND :	0.00	2.0 - 4.5
% MEDIUM SAND :	2.00	0.425 - 2.0
% FINE SAND :	24.00	0.075 - 0.425
% SILT :	68.15	0.075 - 0.002
% CLAY :	5.85	< 0.002
% CLAY :	9.84	< 0.005

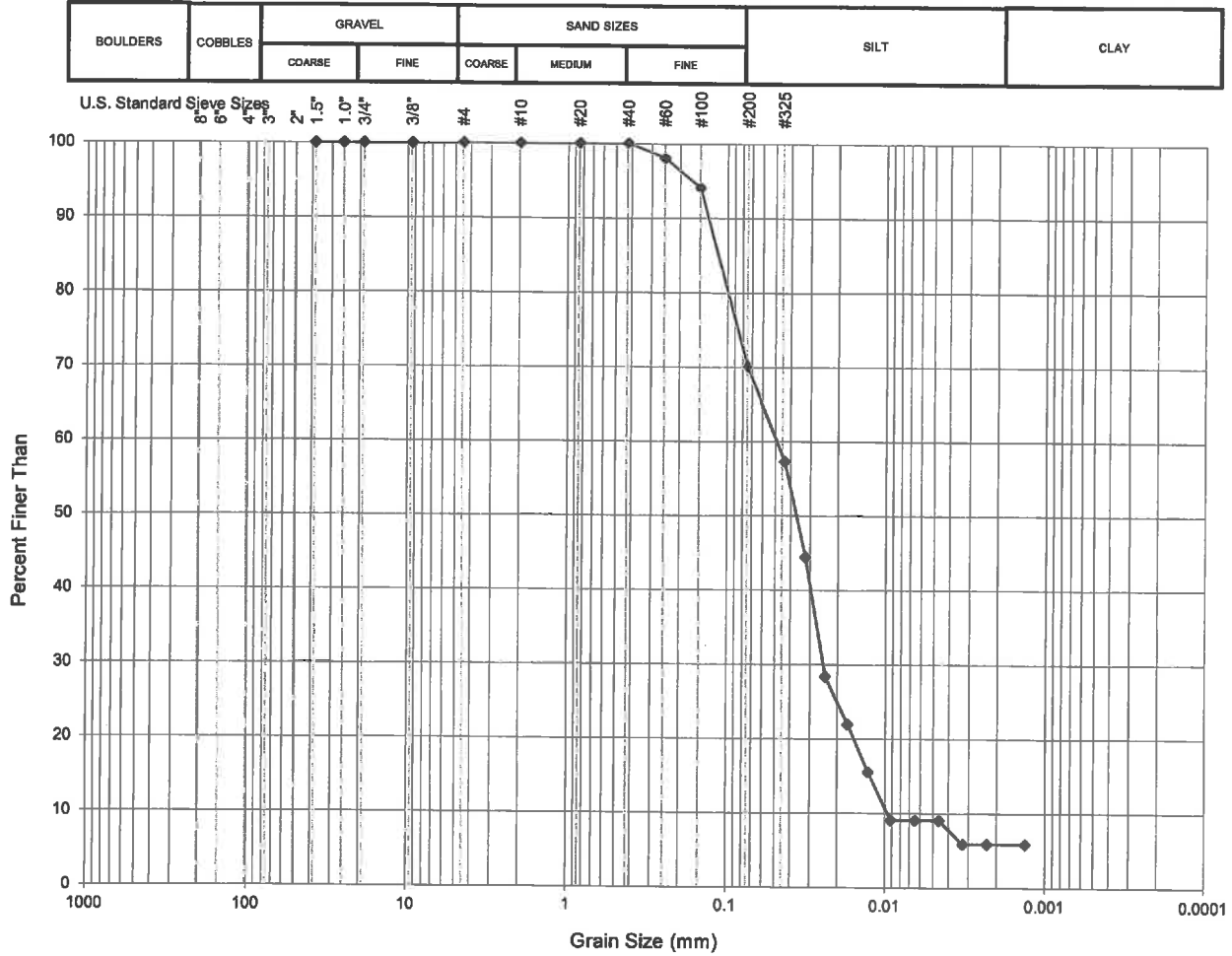
ALS Environmental

WATERLOO

PARTICLE SIZE DISTRIBUTION CURVE

ASTM METHOD D422-63

Project Name: ECOSYSTEM RECOVERY INC
Project Number: EP24780
Sample Location:
Sample Number: EMB U/S
Sample Depth:
Lab ID Number: L1660729-3
Technician: MPBH
Sampler:
Dates:
Collected On: 8/20/2015
Analyzed: 9/3/2015



DESCRIPTION	SOIL CLASSIFICATION DESCRIPTIVE MODIFIERS	SUMMARY
SANDY SILT, TRACE CLAY	AND 36 - 50 % ADJECTIVE (e.g. sandy) 21 - 35 % WITH 11 - 20 % TRACE 1 - 10 %	GRAVEL 0 % SAND 30 % SILT + CLAY 70 %
ESTIMATED HAZEN NUMBER: 9.35E-05 cm/s		
NOTE: UNIFIED SOIL CLASSIFICATION SYSTEM		

GRAIN SIZE DETERMINATIONS

Project Name: ECOSYSTEM RECOVERY INC
 Project Number: EP24780
 Sampler:
 Technician: MPBH
 Lab ID Number: L1660729-3

Sample Location:
 Sample Number: EMB U/S
 Sample Depth:
 Date Sampled: 8/20/2015
 Date Submitted: 8/20/2015
 Date Completed: 9/3/2015

Total Sample Weight 159 grams
 Hydro. Sample Weight 50.000 grams
 % Past #10 1.000 * 100
 Sub Factor 3.180

Specific Gravity: 2.650
 Liquid Specific Gravity: 1.000
 Grav Factor: 1.606

Sieve Size	Weight Retained (grams)	Percent Retained	Diameter (mm)	Cum. % Retained	Cum. % Passing
38.1 mm. DIA.:	0.000	0.000	38.100	0.000	100.000
25.4 mm. DIA.:	0.000	0.000	25.400	0.000	100.000
19.0 mm. DIA.:	0.000	0.000	19.000	0.000	100.000
9.5 mm. DIA.:	0.000	0.000	9.500	0.000	100.000
NO. 4 SIEVE :	0.000	0.000	4.500	0.000	100.000
NO. 10 SIEVE :	0.000	0.000	2.000	0.000	100.000
NO. 20 SIEVE :	0.000	0.000	0.850	0.000	100.000
NO. 40 SIEVE :	0.000	0.000	0.425	0.000	100.000
NO. 60 SIEVE :	1.000	2.000	0.250	2.000	98.000
NO. 100 SIEVE:	2.000	4.000	0.150	6.000	94.000
NO. 200 SIEVE:	12.000	24.000	0.075	30.000	70.000

Time (min)	Temperature (C)	Diameter (mm)	% Suspended (Subsample)	% Suspended (Total Sample)
1.00	20.0	0.043	57.245	57.245
2.00	16.0	0.032	44.396	44.396
4.00	11.0	0.024	28.336	28.336
8.00	9.0	0.017	21.911	21.911
15.00	7.0	0.013	15.487	15.487
30.00	5.0	0.009	9.063	9.063
60.00	5.0	0.007	9.063	9.063
120.00	5.0	0.005	9.063	9.063
240.00	4.0	0.003	5.851	5.851
480.00	4.0	0.002	5.851	5.851
1440.00	4.0	0.001	5.851	5.851

GRAIN SIZE	% BY WT.	DIA. RANGE (mm)
% GRAVEL :	0.00	> 4.5
% COARSE SAND :	0.00	2.0 - 4.5
% MEDIUM SAND :	0.00	0.425 - 2.0
% FINE SAND :	30.00	0.075 - 0.425
% SILT :	64.15	0.075 - 0.002
% CLAY :	5.85	< 0.002
% CLAY :	9.06	< 0.005

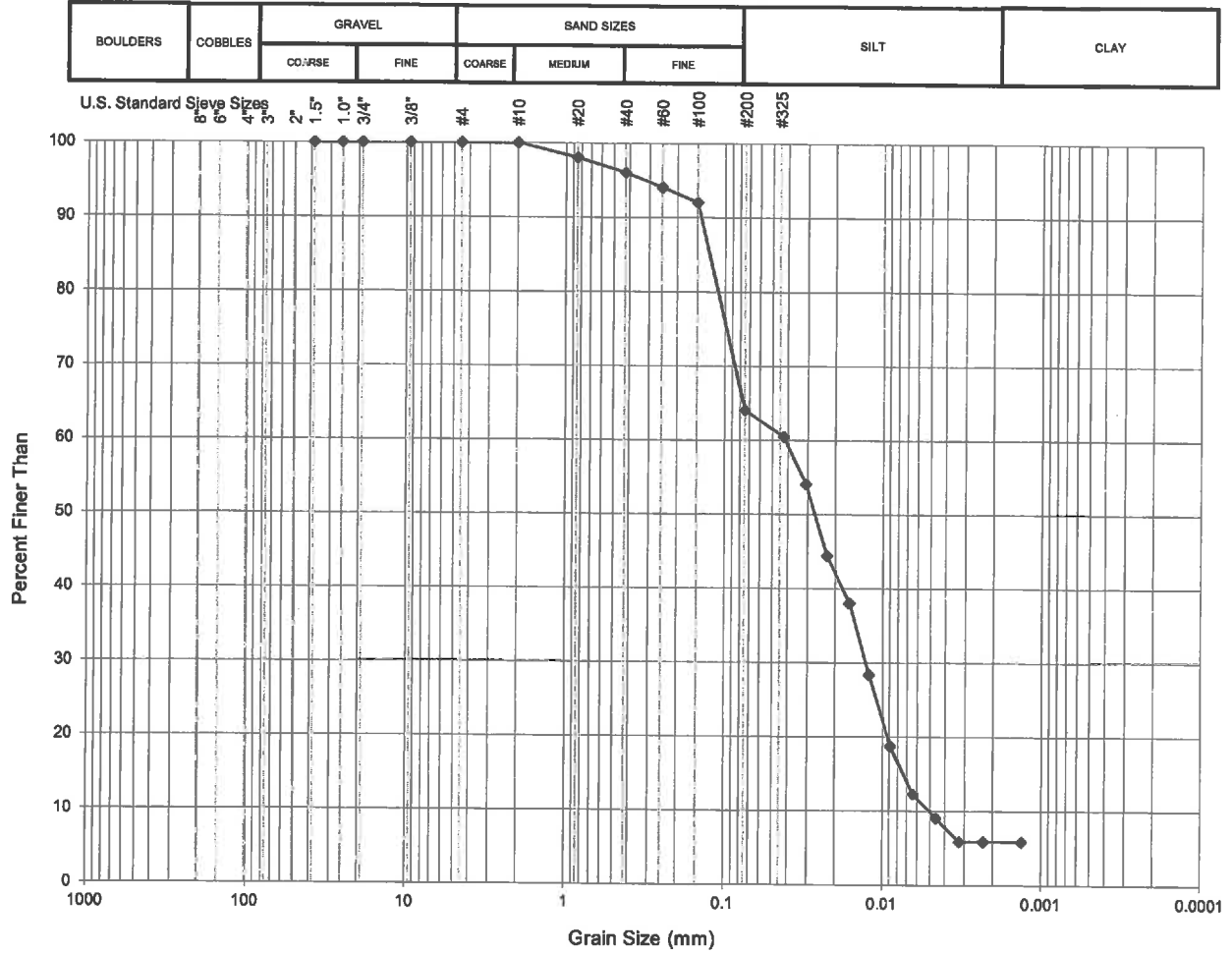
ALS Environmental

WATERLOO

PARTICLE SIZE DISTRIBUTION CURVE

ASTM METHOD D422-63

Project Name: ECOSYSTEM RECOVERY INC
Project Number: EP24780
Sample Location:
Sample Number: EMB D/S
Sample Depth:
Lab ID Number: L1660729-4
Technician: MPBH
Sampler:
Dates:
Collected On: 8/20/2015
Analyzed: 9/3/2015



DESCRIPTION	SOIL CLASSIFICATION DESCRIPTIVE MODIFIERS	SUMMARY
SILT AND CLAY, TRACE CLAY	AND 36 - 50 %	GRAVEL 0 %
ESTIMATED HAZEN NUMBER: 2.58E-05 cm/s	ADJECTIVE (e.g. sandy) 21 - 35 %	SAND 36 %
NOTE: UNIFIED SOIL CLASSIFICATION SYSTEM	WITH 11 - 20 %	SILT + CLAY 64 %
	TRACE 1 - 10 %	

GRAIN SIZE DETERMINATIONS

Project Name: ECOSYSTEM RECOVERY INC
 Project Number: EP24780
 Sampler:
 Technician: MPBH
 Lab ID Number: L1660729-4

Sample Location:
 Sample Number: EMB D/S
 Sample Depth:
 Date Sampled: 8/20/2015
 Date Submitted: 8/20/2015
 Date Completed: 9/3/2015

Total Sample Weight 173 grams
 Hydro. Sample Weight 50.000 grams
 % Past #10 1.000 * 100
 Sub Factor 3.460

Specific Gravity: 2.650
 Liquid Specific Gravity: 1.000
 Grav Factor: 1.606

Sieve Size	Weight Retained (grams)	Percent Retained	Diameter (mm)	Cum. % Retained	Cum. % Passing
38.1 mm. DIA.:	0.000	0.000	38.100	0.000	100.000
25.4 mm. DIA.:	0.000	0.000	25.400	0.000	100.000
19.0 mm. DIA.:	0.000	0.000	19.000	0.000	100.000
9.5 mm. DIA.:	0.000	0.000	9.500	0.000	100.000
NO. 4 SIEVE :	0.000	0.000	4.500	0.000	100.000
NO. 10 SIEVE :	0.000	0.000	2.000	0.000	100.000
NO. 20 SIEVE :	1.000	2.000	0.850	2.000	98.000
NO. 40 SIEVE :	1.000	2.000	0.425	4.000	96.000
NO. 60 SIEVE :	1.000	2.000	0.250	6.000	94.000
NO. 100 SIEVE:	1.000	2.000	0.150	8.000	92.000
NO. 200 SIEVE:	14.000	28.000	0.075	36.000	64.000

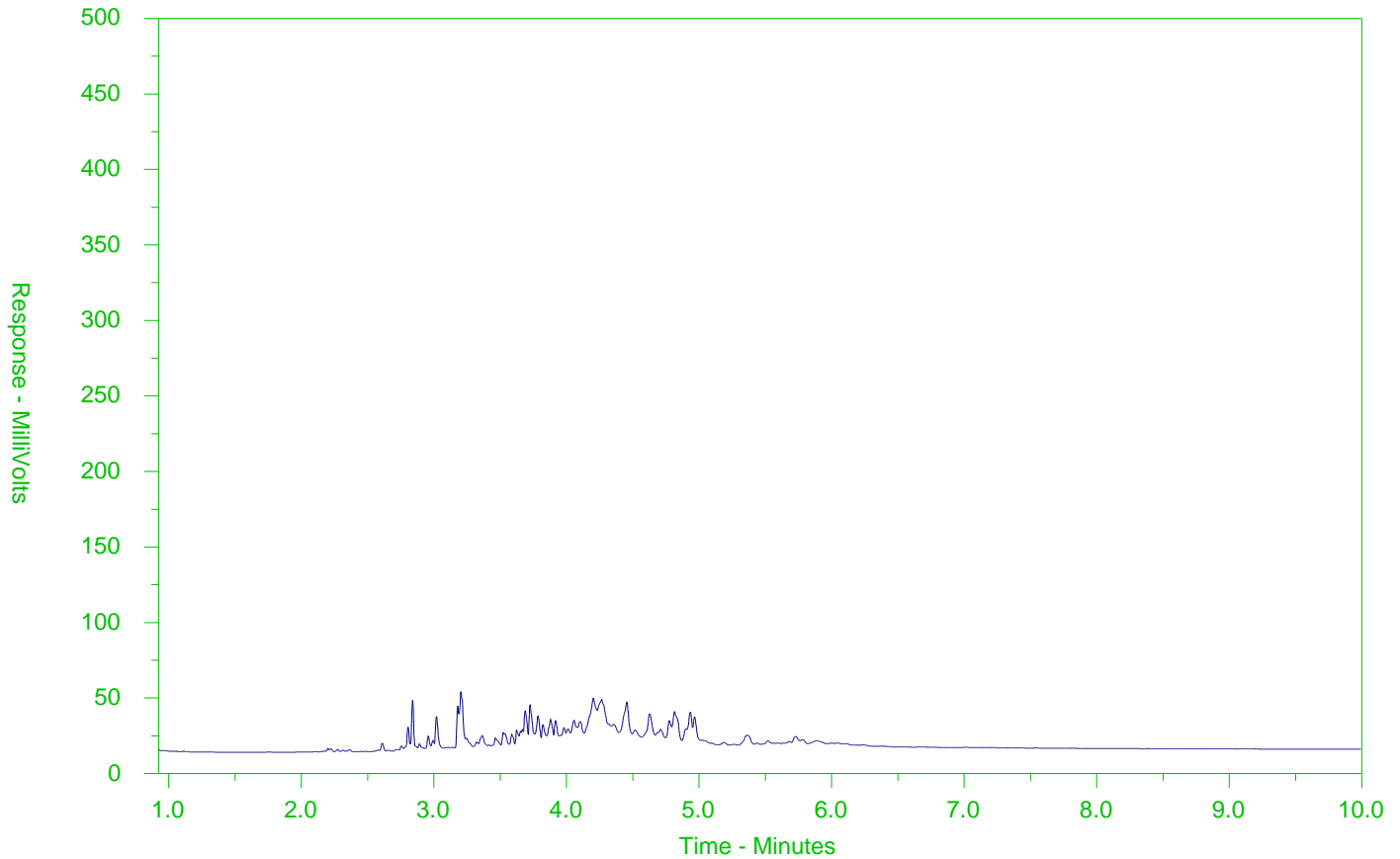
Time (min)		Temperature (C)	Diameter (mm)	% Suspended (Subsample)	% Suspended (Total Sample)
1.00	21.0	23.7	0.043	60.457	60.457
2.00	19.0	23.7	0.031	54.033	54.033
4.00	16.0	23.7	0.023	44.396	44.396
8.00	14.0	23.7	0.016	37.972	37.972
15.00	11.0	23.7	0.012	28.336	28.336
30.00	8.0	23.7	0.009	18.699	18.699
60.00	6.0	23.7	0.006	12.275	12.275
120.00	5.0	23.7	0.005	9.063	9.063
240.00	4.0	23.7	0.003	5.851	5.851
480.00	4.0	23.7	0.002	5.851	5.851
1440.00	4.0	23.7	0.001	5.851	5.851

GRAIN SIZE	% BY WT.	DIA. RANGE (mm)
% GRAVEL :	0.00	> 4.5
% COARSE SAND :	0.00	2.0 - 4.5
% MEDIUM SAND :	4.00	0.425 - 2.0
% FINE SAND :	32.00	0.075 - 0.425
% SILT :	58.15	0.075 - 0.002
% CLAY :	5.85	< 0.002
% CLAY :	9.84	< 0.005

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L1660729-1
 Client Sample ID: HAR U/S



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	75°C		
346°F	549°F	898°F	1067°F		
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

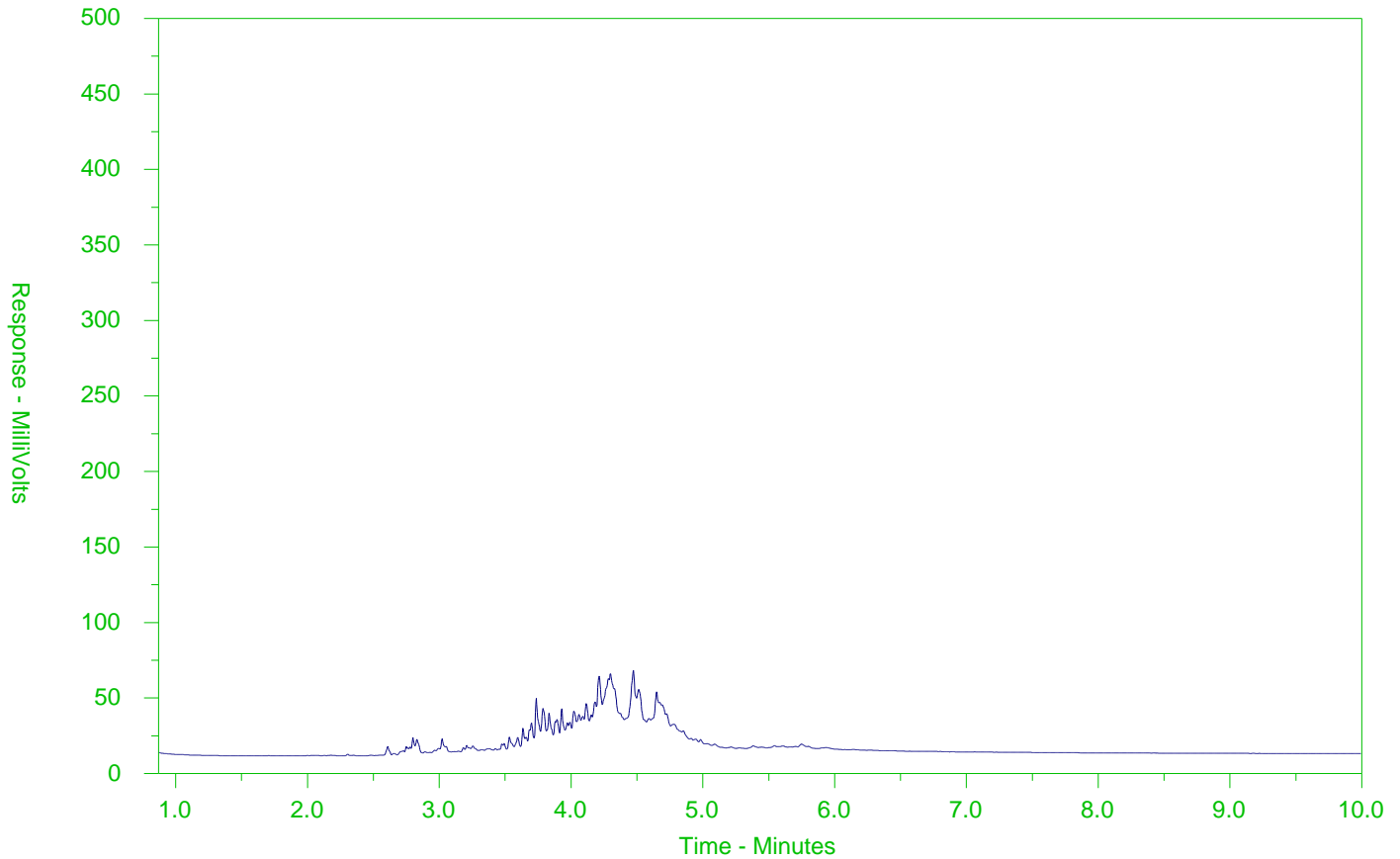
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L1660729-2
 Client Sample ID: HAR D/S



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50	Ship Ctrl+N	
174°C	287°C	481°C	75°C		
346°F	549°F	898°F	1067°F		
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

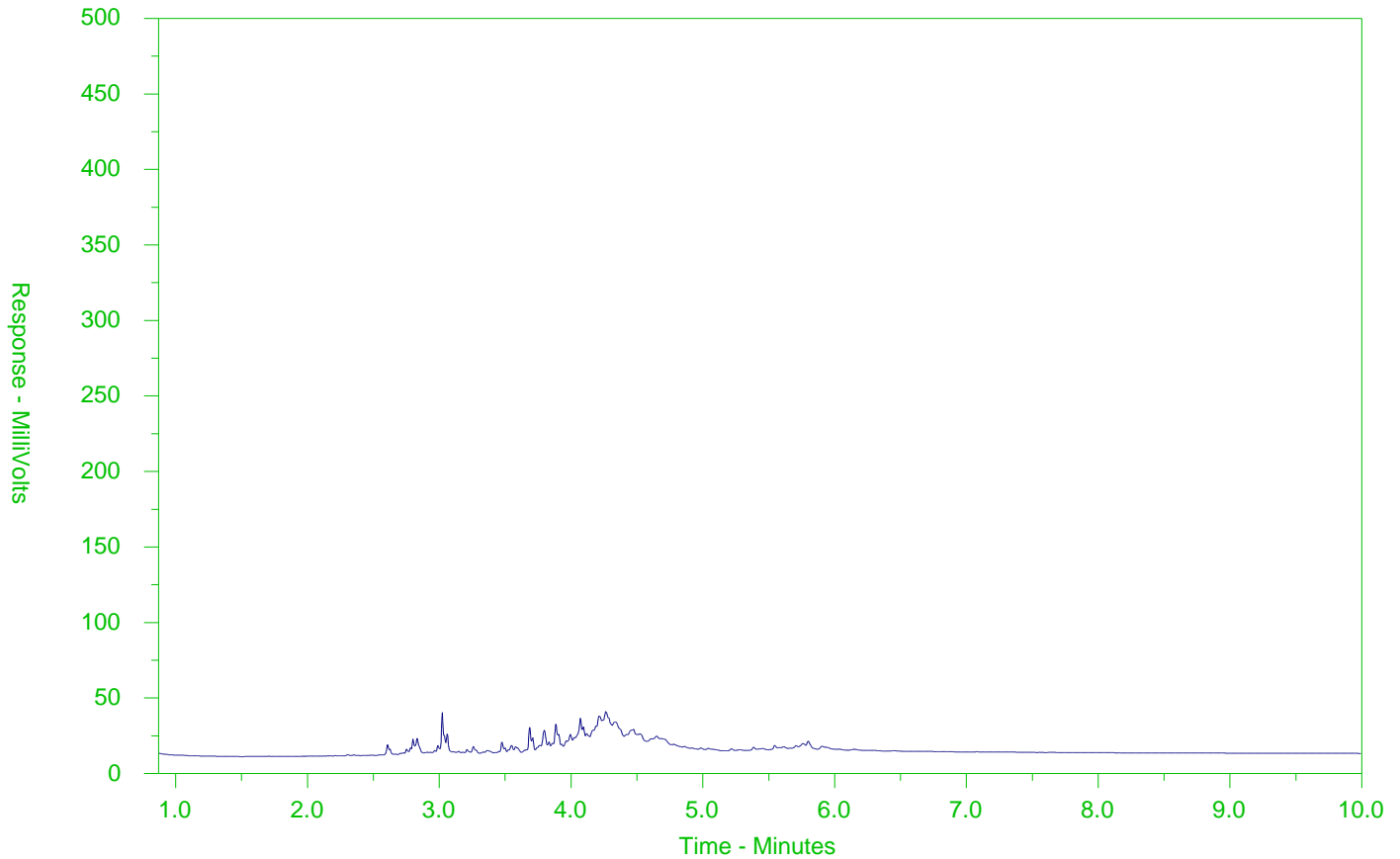
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L1660729-3
 Client Sample ID: EMB U/S



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50	Ship Ctrl+N	
174°C	287°C	481°C	75°C		
346°F	549°F	898°F	1067°F		
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

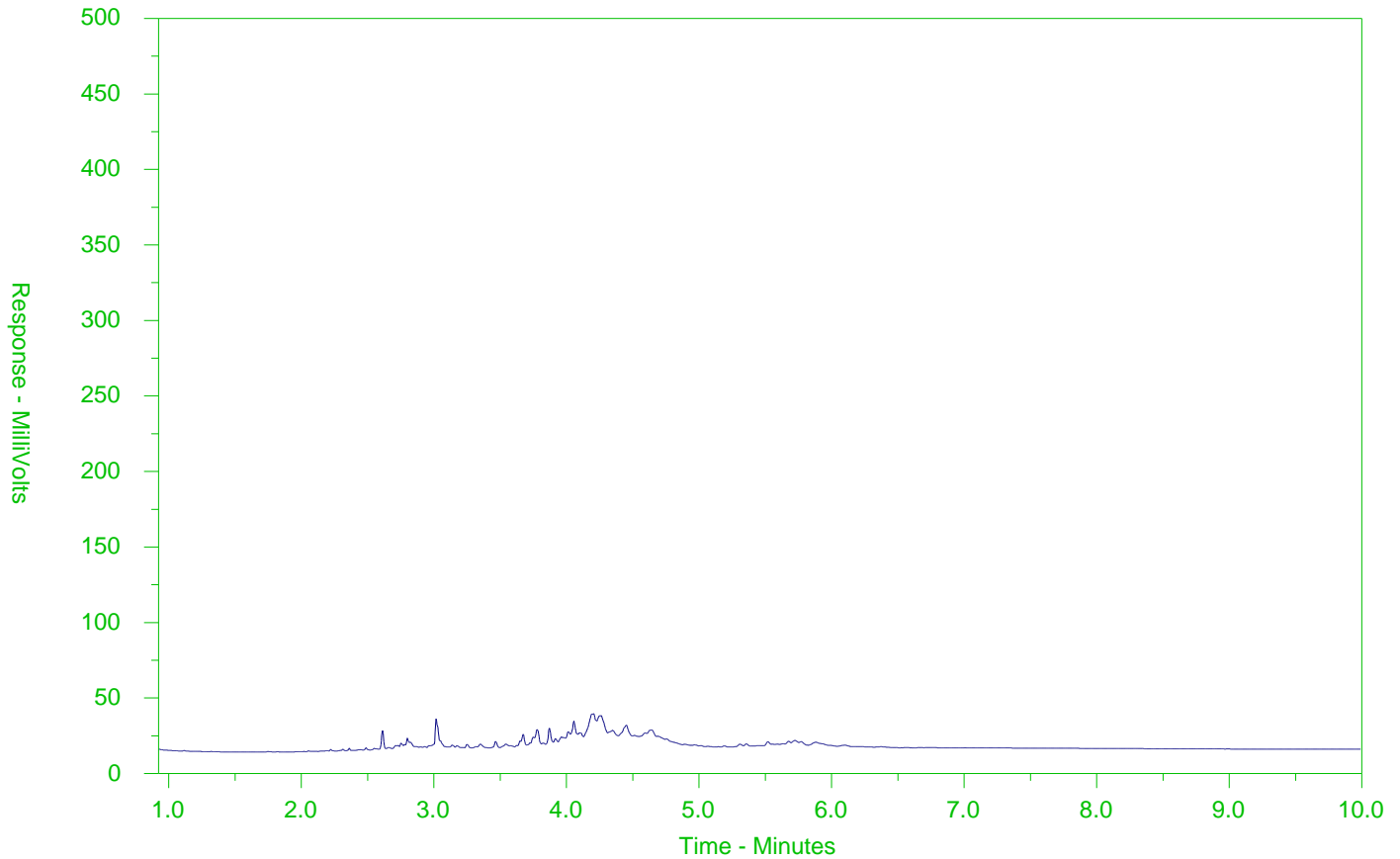
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L1660729-4
 Client Sample ID: EMB D/S



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50	Ship	Ctrl+N
174°C	287°C	481°C	75°C		
346°F	549°F	898°F	1067°F		
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.



Report To		Report Format / Distribution			Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)										
Company: Ecosystem Recovery (cash client)		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days) P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge										
Contact: David Arseneau		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													
Address: 1023 Rife Road, Unit A Cambridge, ON N1R 5S3		<input type="checkbox"/> Criteria on Report - provide details below if box checked													
Phone:		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			Specify Date Required for E2, E or P:										
		Email 1 or Fax david.arseneau@ecosystemrecovery.ca													
		Email 2			Analysis Request										
Invoice To Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below										
Copy of Invoice with Report <input type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX													
Company:		Email 1 or Fax david.arseneau@ecosystemrecovery.ca													
Contact:		Email 2													
Project Information		Oil and Gas Required Fields (client use)													
ALS Quote #: Q48358		Approver ID:			Cost Center:									Number of Containers	
Job #:		GL Account:			Routing Code:										
PO / AFE:		Activity Code:													
LSD:		Location:													
ALS Lab Work Order # (lab use only) L1660729		ALS Contact:			Sampler:										
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	GRAIN SIZE-WT	PAH-511-WT	PEST-OC-511-P-WT	R511-INORGANICS-P-WT	VOC-R511-F1-F4-P-WT	INORGANICS-TCLP-P-WT				
1	HAR W/S		20-08-15	11:15	Soil	R	R	R	R	R					5
2	HAR D/S		20-AUG-15	11:00	Soil	R	R	R	R	R					5
3	EMB W/S		20-AUG-15	12:40	Soil	R	R	R	R	R					5
4	EMB D/S		20-AUG-15	12:20	Soil	R	R	R	R	R					5
5	HAR W/S		20-AUG-15	11:15	Waste								R		2
6	HAR D/S		20-AUG-15	11:00	Waste								R		2
7	EMB W/S		20-AUG-15	12:40	Waste								R		2
8	EMB D/S		20-AUG-15	12:20	Waste								R		2
Drinking Water (DW) Samples ¹ (client use)		Special Instructions / Specify Criteria to add on report (client Use)			SAMPLE CONDITION AS RECEIVED (lab use only)										
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input type="checkbox"/>										
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					INITIAL COOLER TEMPERATURES °C: _____ FINAL COOLER TEMPERATURES °C: 6.1										
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)										
Released by: <i>[Signature]</i>	Date: 20 AUG 15	Time: 2:40	Received by: <i>[Signature]</i>	Date: _____	Time: _____	Received by: <i>[Signature]</i>	Date: 20 AUG 15	Time: 14:40							

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0025e v09 From 04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.