

Your P.O. #: 2012 KITIKMEOT
Your Project #: DLCU/LANDFILL MONITORING
Site Location: CAM-1 JENNY LIND ISLAND
Your C.O.C. #: 324000-01-01

Attention: ANDREW PASSALIS

EGE ENGINEERING LTD.
511 PEPPERLOAF CRESCENT
WINNIPEG, MB
CANADA R3R 1E6

Report Date: 2012/11/12

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B274455
Received: 2012/08/20, 18:00

Sample Matrix: Soil

Samples Received: 16

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BTEX/F1 by HS GC/MS (MeOH extract)	16	2012/08/22	2012/08/26	AB SOP-00039	CCME, EPA 8260C
CCME Hydrocarbons (F2-F4 in soil)	16	2012/08/22	2012/08/25	AB SOP-00040 AB SOP-00036	CCME PHC-CWS
Elements by ICPMS - Soils	12	2012/08/23	2012/08/24	AB SOP-00043	EPA 200.8
Elements by ICPMS - Soils	4	2012/08/24	2012/08/24	AB SOP-00043	EPA 200.8
Moisture	16	N/A	2012/08/23	AB SOP-00002	CCME PHC-CWS
Polychlorinated Biphenyls	11	2012/08/25	2012/08/27	CAL SOP-00149	EPA 3550B, EPA 8082A
Polychlorinated Biphenyls	5	2012/08/25	2012/08/28	CAL SOP-00149	EPA 3550B, EPA 8082A

* Results relate only to the items tested.

Encryption Key

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

Ioana Stoica, Project Manager
Email: IStoica@maxxam.ca
Phone# (403) 291-3077

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

Total cover pages: 1

Maxxam Job #: B274455
Report Date: 2012/11/12

EGE ENGINEERING LTD.
Client Project #: DLCU/LANDFILL MONITORING
Site Location: CAM-1 JENNY LIND ISLAND
Your P.O. #: 2012 KITIKMEOT
Sampler Initials: AP

AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		EG4698	EG4753	EG4754	EG4755	EG4756	EG4757		
Sampling Date		2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-1WA	C112-1WB	C112-2WA	C112-2WB	C112-3WA	C112-3WB	RDL	QC Batch
Physical Properties									
Moisture	%	5.7	5.4	2.4	2.5	2.6	5.0	0.30	6109583
Ext. Pet. Hydrocarbon									
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	<10	<10	<10	<10	10	6112923
F3 (C16-C34 Hydrocarbons)	mg/kg	31	28	<10	<10	<10	<10	10	6112923
Reached Baseline at C50	mg/kg	YES	YES	YES	YES	YES	YES		6112923
Surrogate Recovery (%)									
O-TERPHENYL (sur.)	%	90	90	91	96	90	94		6112923
Volatiles									
Benzene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	6112544
Toluene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6112544
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6112544
Xylenes (Total)	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6112544
m & p-Xylene	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6112544
o-Xylene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6112544
F1 (C6-C10) - BTEX	mg/kg	<12	<12	<12	<12	<12	<12	12	6112544
(C6-C10)	mg/kg	<12	<12	<12	<12	<12	<12	12	6112544
Surrogate Recovery (%)									
1,4-Difluorobenzene (sur.)	%	108	96	93	92	103	92		6112544
4-BROMOFLUOROBENZENE (sur.)	%	96	98	97	92	103	99		6112544
D10-ETHYLBENZENE (sur.)	%	87	93	99	99	98	94		6112544
D4-1,2-DICHLOROETHANE (sur.)	%	118	116	111	115	118	116		6112544

RDL = Reportable Detection Limit

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Sampler Initials: AP

AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		EG4758	EG4759	EG4760	EG4761	EG4762		
Sampling Date		2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-4WA	C112-4WB	C112-5WA	C112-5WB	C112-6WA	RDL	QC Batch
Physical Properties								
Moisture	%	9.4	7.6	7.5	2.4	13	0.30	6109583
Ext. Pet. Hydrocarbon								
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	<10	<10	<10	10	6112923
F3 (C16-C34 Hydrocarbons)	mg/kg	<10	<10	21	13	23	10	6112923
Reached Baseline at C50	mg/kg	YES	YES	YES	YES	YES		6112923
Surrogate Recovery (%)								
O-TERPHENYL (sur.)	%	89	88	89	89	86		6112923
Volatiles								
Benzene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	6112544
Toluene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6112544
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6112544
Xylenes (Total)	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6112544
m & p-Xylene	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6112544
o-Xylene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6112544
F1 (C6-C10) - BTEX	mg/kg	<12	<12	<12	<12	<12	12	6112544
(C6-C10)	mg/kg	<12	<12	<12	<12	<12	12	6112544
Surrogate Recovery (%)								
1,4-Difluorobenzene (sur.)	%	98	98	100	98	97		6112544
4-BROMOFLUOROBENZENE (sur.)	%	95	100	99	96	94		6112544
D10-ETHYLBENZENE (sur.)	%	90	91	92	97	92		6112544
D4-1,2-DICHLOROETHANE (sur.)	%	111	113	117	113	114		6112544

RDL = Reportable Detection Limit

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AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		EG4763	EG4772	EG4784	EG4786	EG4787		
Sampling Date		2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-6WB	C112-7WA	C112-7WB	C112-8WA	C112-8WB	RDL	QC Batch
Physical Properties								
Moisture	%	4.0	9.3	6.8	7.4	4.2	0.30	6109583
Ext. Pet. Hydrocarbon								
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	<10	<10	<10	10	6112923
F3 (C16-C34 Hydrocarbons)	mg/kg	<10	12	<10	12	<10	10	6112923
Reached Baseline at C50	mg/kg	YES	YES	YES	YES	YES		6112923
Surrogate Recovery (%)								
O-TERPHENYL (sur.)	%	84	91	85	94	89		6112923
Volatiles								
Benzene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	6112544
Toluene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6112544
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6112544
Xylenes (Total)	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6112544
m & p-Xylene	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6112544
o-Xylene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6112544
F1 (C6-C10) - BTEX	mg/kg	<12	<12	<12	<12	<12	12	6112544
(C6-C10)	mg/kg	<12	<12	<12	<12	<12	12	6112544
Surrogate Recovery (%)								
1,4-Difluorobenzene (sur.)	%	102	98	102	96	95		6112544
4-BROMOFLUOROBENZENE (sur.)	%	103	94	104	94	99		6112544
D10-ETHYLBENZENE (sur.)	%	91	91	88	89	89		6112544
D4-1,2-DICHLOROETHANE (sur.)	%	118	113	110	114	121		6112544

RDL = Reportable Detection Limit

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POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		EG4698	EG4753	EG4754	EG4755	EG4756	EG4757	EG4758		
Sampling Date		2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-1WA	C112-1WB	C112-2WA	C112-2WB	C112-3WA	C112-3WB	C112-4WA	RDL	QC Batch
Polychlorinated Biphenyls										
Aroclor 1016	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1221	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1232	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1242	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1248	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1254	mg/kg	0.039	0.025	<0.010	<0.010	<0.010	0.12	<0.010	0.010	6115750
Aroclor 1260	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1262	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1268	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Total Aroclors	mg/kg	0.039	0.025	<0.010	<0.010	<0.010	0.12	<0.010	0.010	6115750
Surrogate Recovery (%)										
NONACHLOROBIPHENYL (sur.)	%	100	102	105	102	107	77	102		6115750

Maxxam ID		EG4759	EG4760	EG4761	EG4762	EG4763		
Sampling Date		2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-4WB	C112-5WA	C112-5WB	C112-6WA	C112-6WB	RDL	QC Batch
Polychlorinated Biphenyls								
Aroclor 1016	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1221	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1232	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1242	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1248	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1254	mg/kg	<0.010	0.067	0.015	<0.010	<0.010	0.010	6115750
Aroclor 1260	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1262	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Aroclor 1268	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	6115750
Total Aroclors	mg/kg	<0.010	0.067	0.015	<0.010	<0.010	0.010	6115750
Surrogate Recovery (%)								
NONACHLOROBIPHENYL (sur.)	%	109	112	109	101	99		6115750

RDL = Reportable Detection Limit

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Sampler Initials: AP

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		EG4772		EG4784	EG4786	EG4787		
Sampling Date		2012/08/17		2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01		324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-7WA	QC Batch	C112-7WB	C112-8WA	C112-8WB	RDL	QC Batch
Polychlorinated Biphenyls								
Aroclor 1016	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Aroclor 1221	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Aroclor 1232	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Aroclor 1242	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Aroclor 1248	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Aroclor 1254	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Aroclor 1260	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Aroclor 1262	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Aroclor 1268	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Total Aroclors	mg/kg	<0.010	6115750	<0.010	<0.010	<0.010	0.010	6115816
Surrogate Recovery (%)								
NONACHLOROBIPHENYL (sur.)	%	113	6115750	116	111	113		6115816

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EG4698	EG4753	EG4754	EG4755	EG4756	EG4757		
Sampling Date		2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-1WA	C112-1WB	C112-2WA	C112-2WB	C112-3WA	C112-3WB	RDL	QC Batch
Elements									
Total Arsenic (As)	mg/kg	3.9	4.8	4.0	5.4	1.3	2.7	1.0	6112757
Total Cadmium (Cd)	mg/kg	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	6112757
Total Chromium (Cr)	mg/kg	2.9	3.3	2.3	1.8	3.1	3.0	1.0	6112757
Total Cobalt (Co)	mg/kg	<1.0	1.2	<1.0	<1.0	1.0	1.2	1.0	6112757
Total Copper (Cu)	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	6112757
Total Lead (Pb)	mg/kg	10	10	11	16	2.5	5.7	1.0	6112757
Total Mercury (Hg)	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6112757
Total Nickel (Ni)	mg/kg	1.7	2.7	1.6	1.4	2.3	2.0	1.0	6112757
Total Zinc (Zn)	mg/kg	<10	<10	<10	<10	<10	<10	10	6112757

RDL = Reportable Detection Limit

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EG4758	EG4759	EG4760	EG4761	EG4762		
Sampling Date		2012/08/17	2012/08/17	2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-4WA	C112-4WB	C112-5WA	C112-5WB	C112-6WA	RDL	QC Batch
Elements								
Total Arsenic (As)	mg/kg	4.2	21	1.4	1.4	1.2	1.0	6112757
Total Cadmium (Cd)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	6112757
Total Chromium (Cr)	mg/kg	3.0	2.7	2.3	3.2	2.1	1.0	6112757
Total Cobalt (Co)	mg/kg	<1.0	1.3	<1.0	<1.0	<1.0	1.0	6112757
Total Copper (Cu)	mg/kg	<5.0	6.2	<5.0	<5.0	<5.0	5.0	6112757
Total Lead (Pb)	mg/kg	11	38	4.2	4.3	2.6	1.0	6112757
Total Mercury (Hg)	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6112757
Total Nickel (Ni)	mg/kg	1.7	2.7	1.5	1.9	2.1	1.0	6112757
Total Zinc (Zn)	mg/kg	<10	<10	<10	<10	<10	10	6112757

Maxxam ID		EG4763		EG4772	EG4784	EG4786	EG4787		
Sampling Date		2012/08/17		2012/08/17	2012/08/17	2012/08/17	2012/08/17		
COC#		324000-01-01		324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C112-6WB	QC Batch	C112-7WA	C112-7WB	C112-8WA	C112-8WB	RDL	QC Batch
Elements									
Total Arsenic (As)	mg/kg	2.4	6112757	1.9	1.9	<1.0	1.8	1.0	6113291
Total Cadmium (Cd)	mg/kg	<0.10	6112757	<0.10	<0.10	<0.10	<0.10	0.10	6113291
Total Chromium (Cr)	mg/kg	3.1	6112757	1.8	2.8	1.7	4.3	1.0	6113291
Total Cobalt (Co)	mg/kg	1.3	6112757	<1.0	1.1	<1.0	1.5	1.0	6113291
Total Copper (Cu)	mg/kg	<5.0	6112757	<5.0	<5.0	<5.0	<5.0	5.0	6113291
Total Lead (Pb)	mg/kg	3.7	6112757	3.1	3.2	1.9	3.2	1.0	6113291
Total Mercury (Hg)	mg/kg	<0.050	6112757	<0.050	<0.050	<0.050	<0.050	0.050	6113291
Total Nickel (Ni)	mg/kg	2.4	6112757	1.3	1.9	1.1	3.2	1.0	6113291
Total Zinc (Zn)	mg/kg	<10	6112757	<10	<10	<10	<10	10	6113291

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Package 1	8.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

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QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
6109583	Moisture	2012/08/23					<0.30	%	1.1	20		
6112544	1,4-Difluorobenzene (sur.)	2012/08/26	111	60 - 140	102	60 - 140	104	%				
6112544	4-BROMOFLUOROBENZENE (sur.)	2012/08/26	102	60 - 140	106	60 - 140	108	%				
6112544	D10-ETHYLBENZENE (sur.)	2012/08/26	94	60 - 130	100	60 - 130	100	%				
6112544	D4-1,2-DICHLOROETHANE (sur.)	2012/08/26	111	60 - 140	105	60 - 140	130	%				
6112544	Benzene	2012/08/26	100	60 - 140	95	60 - 140	<0.0050	mg/kg	NC	50		
6112544	Toluene	2012/08/26	97	60 - 140	94	60 - 140	<0.020	mg/kg	NC	50		
6112544	Ethylbenzene	2012/08/26	93	60 - 140	100	60 - 140	<0.010	mg/kg	NC	50		
6112544	m & p-Xylene	2012/08/26	86	60 - 140	94	60 - 140	<0.040	mg/kg	NC	50		
6112544	o-Xylene	2012/08/26	84	60 - 140	93	60 - 140	<0.020	mg/kg	NC	50		
6112544	(C6-C10)	2012/08/26	75	60 - 140	78	60 - 140	<12	mg/kg	NC	50		
6112544	Xylenes (Total)	2012/08/26					<0.040	mg/kg	NC	50		
6112544	F1 (C6-C10) - BTEX	2012/08/26					<12	mg/kg	NC	50		
6112757	Total Arsenic (As)	2012/08/24	86	75 - 125	102	75 - 125	<1.0	mg/kg	NC	35	116	50 - 150
6112757	Total Cadmium (Cd)	2012/08/24	94	75 - 125	97	75 - 125	<0.10	mg/kg	NC	35		
6112757	Total Chromium (Cr)	2012/08/24	103	75 - 125	102	75 - 125	<1.0	mg/kg	2.1	35	115	41 - 159
6112757	Total Cobalt (Co)	2012/08/24	99	75 - 125	102	75 - 125	<1.0	mg/kg	1.5	35	110	75 - 125
6112757	Total Copper (Cu)	2012/08/24	90	75 - 125	103	75 - 125	<5.0	mg/kg	NC	35	104	72 - 127
6112757	Total Lead (Pb)	2012/08/24	91	75 - 125	97	75 - 125	<1.0	mg/kg	1.9	35	104	54 - 146
6112757	Total Mercury (Hg)	2012/08/24	100	75 - 125	104	75 - 125	<0.050	mg/kg	NC	35		
6112757	Total Nickel (Ni)	2012/08/24	99	75 - 125	103	75 - 125	<1.0	mg/kg	7.4	35	115	61 - 139
6112757	Total Zinc (Zn)	2012/08/24	NC	75 - 125	104	75 - 125	<10	mg/kg	0.1	35	105	72 - 128
6112923	O-TERPHENYL (sur.)	2012/08/25	84	50 - 130	81	50 - 130	91	%				
6112923	F2 (C10-C16 Hydrocarbons)	2012/08/25	94	50 - 130	88	70 - 130	<10	mg/kg	NC	50		
6112923	F3 (C16-C34 Hydrocarbons)	2012/08/25	99	50 - 130	91	70 - 130	<10	mg/kg	NC	50		
6113291	Total Arsenic (As)	2012/08/24	99	75 - 125	103	75 - 125	<1.0	mg/kg	0.6	35	116	50 - 150
6113291	Total Cadmium (Cd)	2012/08/24	99	75 - 125	101	75 - 125	<0.10	mg/kg	NC	35		
6113291	Total Chromium (Cr)	2012/08/24	NC	75 - 125	100	75 - 125	<1.0	mg/kg	3.9	35	100	41 - 159
6113291	Total Cobalt (Co)	2012/08/24	97	75 - 125	98	75 - 125	<1.0	mg/kg	21.1	35	97	75 - 125
6113291	Total Copper (Cu)	2012/08/24	97	75 - 125	102	75 - 125	<5.0	mg/kg	NC	35	100	72 - 127
6113291	Total Lead (Pb)	2012/08/24	96	75 - 125	100	75 - 125	<1.0	mg/kg	4.4	35	100	54 - 146
6113291	Total Mercury (Hg)	2012/08/24	99	75 - 125	102	75 - 125	<0.050	mg/kg	NC	35		
6113291	Total Nickel (Ni)	2012/08/24	NC	75 - 125	102	75 - 125	<1.0	mg/kg	4.3	35	106	61 - 139
6113291	Total Zinc (Zn)	2012/08/24	NC	75 - 125	105	75 - 125	<10	mg/kg	1.3	35	106	72 - 128
6115750	NONACHLOROBIPHENYL (sur.)	2012/08/27	107	30 - 130	113	30 - 130	109	%				
6115750	Aroclor 1260	2012/08/27	78	30 - 130	83	30 - 130	<0.010	mg/kg	NC	50		
6115750	Aroclor 1016	2012/08/27					<0.010	mg/kg	NC	50		
6115750	Aroclor 1221	2012/08/27					<0.010	mg/kg	NC	50		
6115750	Aroclor 1232	2012/08/27					<0.010	mg/kg	NC	50		

Maxxam Job #: B274455
Report Date: 2012/11/12

EGE ENGINEERING LTD.
Client Project #: DLCU/LANDFILL MONITORING
Site Location: CAM-1 JENNY LIND ISLAND
Your P.O. #: 2012 KITIKMEOT
Sampler Initials: AP

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
6115750	Aroclor 1242	2012/08/27					<0.010	mg/kg	NC	50		
6115750	Aroclor 1248	2012/08/27					<0.010	mg/kg	NC	50		
6115750	Aroclor 1254	2012/08/27					<0.010	mg/kg	NC	50		
6115750	Aroclor 1262	2012/08/27					<0.010	mg/kg	NC	50		
6115750	Aroclor 1268	2012/08/27					<0.010	mg/kg	NC	50		
6115750	Total Aroclors	2012/08/27					<0.010	mg/kg	NC	50		
6115816	NONACHLOROBIPHENYL (sur.)	2012/08/28	107	30 - 130	114	30 - 130	116	%				
6115816	Aroclor 1260	2012/08/28	68	30 - 130	77	30 - 130	<0.010	mg/kg	NC	50		
6115816	Aroclor 1016	2012/08/28					<0.010	mg/kg	NC	50		
6115816	Aroclor 1221	2012/08/28					<0.010	mg/kg	NC	50		
6115816	Aroclor 1232	2012/08/28					<0.010	mg/kg	NC	50		
6115816	Aroclor 1242	2012/08/28					<0.010	mg/kg	NC	50		
6115816	Aroclor 1248	2012/08/28					<0.010	mg/kg	NC	50		
6115816	Aroclor 1254	2012/08/28					<0.010	mg/kg	NC	50		
6115816	Aroclor 1262	2012/08/28					<0.010	mg/kg	NC	50		
6115816	Aroclor 1268	2012/08/28					<0.010	mg/kg	NC	50		
6115816	Total Aroclors	2012/08/28					<0.010	mg/kg	NC	50		

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

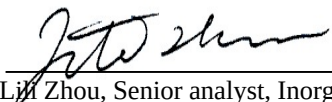
Validation Signature Page

Maxxam Job #: B274455

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



Luba Shymushovska, Senior Analyst, Organic Department



Lij Zhou, Senior analyst, Inorganic department.



Michael Sheppard, Organics Supervisor

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

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4781 SILA REMEDIATION	Company Name:	#25854 EGE ENGINEERING LTD.	Quotation #:	A90192	MAXXAM JOB #:	BOTTLE ORDER #:
Contact Name:	ACCOUNTS PAYABLE	Contact Name:	ANDREW PASSALIS	P.O. #:	2012 KITIKMEOT	B 274455	324000
Address:	4495 WILFRID-HAMEL BLVD, SUITE 200, QUEBEC	Address:	511 PEPPERLOAF CRESCENT	Project #:	DLCU/Landfill Monitoring	CHAIN OF CUSTODY #:	PROJECT MANAGER:
	QUEBEC PQ GIP 2T7		WINNIPEG MB R3R 1E6	Project Name:			
Phone:	(418)653-4422 x5485	Phone:	(204)791-4938	Site #:	CAM-1 JENNY LIND ISLAND		Tanya Eugene
Fax:		Fax:	(204)837-6473	Sampled By:	A.P.		
Email:		Email:	apassalis@mts.net; avallieres@biogenie-env.com				

REGULATORY CRITERIA:		SPECIAL INSTRUCTIONS		ANALYSIS REQUESTED (Please be specific):		TURNAROUND TIME (TAT) REQUIRED:	
☐ ATI ☐ CCME ☐ OTHER				Metals Field Filtered ? (Y/N) BTEX F1-F4 F1-F3 REGULATED METALS PKG - SOIL See List AT1 BTEX and F1-F4 in Water Total Metals and Total Mercury - WATER PCB		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details ☒ Job Specific Rush TAT (if applies to entire submission) Date Required: ☐ Rush Confirmation Number: (call lab for #)	
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM							
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y/N)	Comments	
1	C112-1WA	17/8/12		SOIL	X	1+1 bag	
2	-1WB				X		
3	-2WA				X		
4	-2WB				X		
5	-3WA				X		
6	-3WB				X		
7	-4WA				X		
8	-4WB				X		
9	-5WA				X		
10	-5WB				X		

ARRIVED AT DEPOT
AUG 20 2012
TEMP: 8/1/8/

Metals
As
Co
Cr
Cu
Hg
Ni
Pb
Zn

6:00 am

*RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time:	# Jars Used and	Laboratory Use Only	
C.H.		12/8/12	1150	S.H. KINGSBURY		2012/08/21	16:52	Not Submitted	Time Sensitive	Custody Seal Intact on Cooler?
									☐	☐ Yes ☐ No

INVOICE INFORMATION:			REPORT INFORMATION (if differs from invoice):			PROJECT INFORMATION:			Laboratory Use Only:		
Company Name:	#4781 SILA REMEDIATION		Company Name:	#25854 EGE ENGINEERING LTD.		Quotation #:	A90192		MAXXAM JOB #:	BOTTLE ORDER #:	
Contact Name:	ACCOUNTS PAYABLE		Contact Name:	ANDREW PASSALIS		P.O. #:	2012 KITIKMEOT				
Address:	4495 WILFRID-HAMEL BLVD, SUITE 200, QUEBEC QUEBEC PQ GIP 2T7		Address:	511 PEPPERLOAF CRESCENT WINNIPEG MB R3R 1E6		Project #:	DLCU/Landfill Monitoring		CHAIN OF CUSTODY #:	PROJECT MANAGER:	
Phone:	(418)653-4422 x5485	Fax:	Phone:	(204)791-4938	Fax:	Site #:	CAM-1 JENNY LIND ISLAND				
Email:			Email:	apassalis@mts.net; avallieres@biogenie-env.com		Sampled By:	AP				
REGULATORY CRITERIA:			SPECIAL INSTRUCTIONS			ANALYSIS REQUESTED (Please be specific):			TURNAROUND TIME (TAT) REQUIRED:		
☐ ATI ☐ CCME ☐ OTHER									PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS		
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM									Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: Rush Confirmation Number: (call lab for #)		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y/N)	REGULATED METALS PKG - SOIL	AT1 BTEX and F1-F4 in Water	Total Metals and Total Mercury - WATER	PCB	# of Bottles	Comments
1	C112-6WA	17/8/12		SOIL	X	X			X		1+1 bag
2	-6WB				X	X			X		
3	-7WA				X	X			X		
4	-7WB				X	X			X		
5	-8WA				X	X			X		
6	-8WB				X	X			X		
7											
8											
9											
10											
*RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time:	# Jars Used and	Laboratory Use Only		
[Signature]		12/8/18	11:00	[Signature]		2018/08/21	10:52	Not Submitted	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
									☐		☐ Yes ☐ No