AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.
1140, RUE LEVIS
TERREBONNE, QC J6W5S6
(450) 961-3535

ATTENTION TO: Brandon Mac Kay

PROJECT NO: Soil and Water Sample

AGAT WORK ORDER: 12E638576

SOIL ANALYSIS REVIEWED BY: Krystyna Krauze, Senior Analyst

TRACE ORGANICS REVIEWED BY: Larissa Poryadina, Senior Analyst

WATER ANALYSIS REVIEWED BY: Krystyna Krauze, Senior Analyst

DATE REPORTED: Sep 13, 2012

PAGES (INCLUDING COVER): 30

VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

*NOTES
VERSION 2:With added results (2012-11-05)

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

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Certificate of Analysis

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

CCME / Alberta Tier 1 Metals (soil) + Hg

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-1-A	C2-12-1-B	C2-12-2-A	C2-12-2-A-D	C2-12-2-B	C2-12-3-A	C2-12-3-B	C2-12-4-A
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	Unit	G / S	RDL	3678251	3678268	3678269	3678270	3678271	3678272	3678273	3678277
Arsenic	mg/kg	17	0.5	13.9	0.7	1.3	0.9	<0.5	0.6	1.0	<0.5
Cadmium	mg/kg	1.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	64	0.5	4.7	4.1	7.6	7.0	3.4	3.1	4.3	4.5
Cobalt	mg/kg	20	0.5	1.3	1.2	1.4	1.2	0.9	1.0	1.3	1.1
Lead	mg/kg	70	0.5	4.0	3.1	3.9	3.5	2.7	2.2	3.3	2.7
Nickel	mg/kg	50	0.5	4.5	3.3	4.5	3.6	2.8	2.9	4.0	3.7
Zinc	mg/kg	200	1	11	6	12	14	8	5	6	7
Mercury	mg/kg	6.6	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

		SAMPLE DESCRIPTION:		C2-12-4-B	C2-12-5-A	C2-12-5-B	C2-12-6-A	C2-12-6-B	C2-12-7-A	C2-12-7-B	C2-12-8-A
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	Unit	G / S	RDL	3678282	3678283	3678286	3678288	3678289	3678290	3678292	3678293
Arsenic	mg/kg	17	0.5	<0.5	1.0	0.6	<0.5	<0.5	1.4	0.6	2.2
Cadmium	mg/kg	1.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	64	0.5	3.4	6.3	4.2	2.9	2.6	5.4	4.5	4.6
Cobalt	mg/kg	20	0.5	0.9	2.1	1.1	0.7	0.7	1.4	1.0	2.4
Lead	mg/kg	70	0.5	2.1	3.6	2.5	1.2	1.3	3.0	2.2	2.3
Nickel	mg/kg	50	0.5	3.1	5.7	3.3	1.9	2.9	6.6	3.9	4.3
Zinc	mg/kg	200	1	4	14	4	6	3	6	5	6
Mercury	mg/kg	6.6	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

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Certificate of Analysis

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

CCME / Alberta Tier 1 Metals (soil) + Hg

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: C2-12-8-B SAMPLE TYPE: Soil DATE SAMPLED: 2012-08-25 3678294	C2-12-9-A Soil 2012-08-25 3678295	C2-12-9-B Soil 2012-08-25 3678296	C2-12-10-A Soil 2012-08-25 3678297	C2-12-10-B Soil 2012-08-25 3678298	C2-12-11-A Soil 2012-08-25 3678299	C2-12-11-A-D Soil 2012-08-25 3678301	C2-12-11-B Soil 2012-08-25 3678302
Arsenic	mg/kg	17	0.5	2.9	1.9	2.9	1.1	1.2	0.6	0.7	0.8
Cadmium	mg/kg	1.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	64	0.5	24.6	8.8	21.9	6.8	6.4	6.8	6.6	7.7
Cobalt	mg/kg	20	0.5	6.9	3.4	5.5	2.0	2.1	1.7	1.4	2.2
Lead	mg/kg	70	0.5	14.7	2.8	10.4	3.9	3.4	3.6	3.0	3.1
Nickel	mg/kg	50	0.5	15.4	7.6	12.6	6.0	5.4	5.7	4.9	6.3
Zinc	mg/kg	200	1	37	18	32	11	11	10	9	12
Mercury	mg/kg	6.6	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: C2-12-12-A SAMPLE TYPE: Soil DATE SAMPLED: 2012-08-25 3678304	C2-12-12-B Soil 2012-08-25 3678305	C2-12-13-A Soil 2012-08-25 3678306	C2-12-13-B Soil 2012-08-25 3678307	C2-12-14-A Soil 2012-08-25 3678321	C2-12-14-B Soil 2012-08-25 3678322	C2-12-MW1-A Soil 2012-08-25 3678323	C2-12-MW1-B Soil 2012-08-25 3678325
Arsenic	mg/kg	17	0.5	0.6	<0.5	<0.5	0.7	0.8	0.8	0.7	1.0
Cadmium	mg/kg	1.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	64	0.5	7.0	6.3	3.0	3.3	4.9	4.3	3.1	4.8
Cobalt	mg/kg	20	0.5	2.1	1.9	1.2	0.9	1.6	1.3	0.9	1.6
Lead	mg/kg	70	0.5	2.1	1.3	2.0	2.1	2.9	2.3	2.5	4.3
Nickel	mg/kg	50	0.5	4.7	4.2	3.4	3.5	4.5	3.5	2.9	5.2
Zinc	mg/kg	200	1	14	11	5	4	16	6	6	13
Mercury	mg/kg	6.6	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

CCME / Alberta Tier 1 Metals (soil) + Hg

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: C2-12-MW2-A SAMPLE TYPE: Soil DATE SAMPLED: 2012-08-25 3678326	C2-12-MW2-A-D Soil 2012-08-25 3678328	C2-12-MW3-A Soil 2012-08-25 3678329	C2-12-MW3-B Soil 2012-08-25 3678331	C2-12-MW4-A Soil 2012-08-25 3678332	C2-12-MW4-B Soil 2012-08-25 3678333	C2-12-MW5-A Soil 2012-08-24 3678334	C2-12-MW5-A-D Soil 2012-08-24 3678335
Arsenic	mg/kg	17	0.5	1.3	1.4	1.4	1.8	1.3	1.8	1.2	1.1
Cadmium	mg/kg	1.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	64	0.5	6.9	6.4	8.4	7.8	5.9	11.1	7.7	6.7
Cobalt	mg/kg	20	0.5	2.1	2.0	2.5	3.2	2.0	4.3	2.3	2.2
Lead	mg/kg	70	0.5	11.7	9.5	10.9	6.2	7.1	7.0	6.8	7.1
Nickel	mg/kg	50	0.5	6.5	6.6	8.2	10.9	5.9	10.1	8.7	8.5
Zinc	mg/kg	200	1	15	15	16	13	20	21	15	14
Mercury	mg/kg	6.6	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: C2-12-MW5-B SAMPLE TYPE: Soil DATE SAMPLED: 2012-08-24 3678336	C2-12-MW6-A Soil 2012-08-24 3678337	C2-12-MW6-B Soil 2012-08-24 3678338	C2-12-MW7-A Soil 2012-08-24 3678339	C2-12-MW7-B Soil 2012-08-24 3678341	C2-12-MW8-A Soil 2012-08-24 3678343	C2-12-MW8-B Soil 2012-08-24 3678346
Arsenic	mg/kg	17	0.5	2.2	<0.5	1.8	2.2	2.6	1.4	1.5
Cadmium	mg/kg	1.4	0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5
Chromium	mg/kg	64	0.5	11.1	3.0	10.0	8.1	11.9	5.9	6.9
Cobalt	mg/kg	20	0.5	3.9	0.7	3.8	3.8	3.8	1.6	2.0
Lead	mg/kg	70	0.5	8.7	1.8	9.9	4.6	8.9	3.1	5.0
Nickel	mg/kg	50	0.5	9.7	3.1	9.0	18.4	10.9	11.3	6.7
Zinc	mg/kg	200	1	14	6	21	11	16	8	9
Mercury	mg/kg	6.6	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ABTier1 Soil (Ag, F)

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Soil Analysis - Copper

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	C2-12-1-A	C2-12-1-B	C2-12-2-A	C2-12-2-A-D	C2-12-2-B	C2-12-3-A	C2-12-3-B	C2-12-4-A
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
					3678251	3678268	3678269	3678270	3678271	3678272	3678273	3678277
Copper	mg/kg		0.5		7.8	1.7	5.3	5.9	1.8	2.0	3.9	2.3

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	C2-12-4-B	C2-12-5-A	C2-12-5-B	C2-12-6-A	C2-12-6-B	C2-12-7-A	C2-12-7-B	C2-12-8-A
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
					3678282	3678283	3678286	3678288	3678289	3678290	3678292	3678293
Copper	mg/kg		0.5		1.8	5.5	1.8	2.2	1.3	20.8	3.9	5.7

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	C2-12-8-B	C2-12-9-A	C2-12-9-B	C2-12-10-A	C2-12-10-B	C2-12-11-A	C2-12-11-A-D	C2-12-11-B
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
					3678294	3678295	3678296	3678297	3678298	3678299	3678301	3678302
Copper	mg/kg		0.5		16.2	3.3	11.5	3.3	3.0	4.2	5.7	5.3

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	C2-12-12-A	C2-12-12-B	C2-12-13-A	C2-12-13-B	C2-12-14-A	C2-12-14-B	C2-12-MW1-A	C2-12-MW1-B
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
					3678304	3678305	3678306	3678307	3678321	3678322	3678323	3678325
Copper	mg/kg		0.5		2.0	4.0	1.3	1.6	3.3	2.8	2.5	5.7

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	C2-12-MW2-A	C2-12-MW2-A-D	C2-12-MW3-A	C2-12-MW3-B	C2-12-MW4-A	C2-12-MW4-B	C2-12-MW5-A	C2-12-MW5-A-D
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-24	2012-08-24
					3678326	3678328	3678329	3678331	3678332	3678333	3678334	3678335
Copper	mg/kg		0.5		5.7	5.4	9.3	13.1	16.7	8.3	12.2	11.4

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	C2-12-MW5-B	C2-12-MW6-A	C2-12-MW6-B	C2-12-MW7-A	C2-12-MW7-B	C2-12-MW8-A	C2-12-MW8-B
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24
					3678336	3678337	3678338	3678339	3678341	3678343	3678346
Copper	mg/kg		0.5		8.0	3.6	6.2	11.1	8.2	8.1	4.7

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Certificate of Analysis

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Soil Analysis - Copper

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-1-A	C2-12-1-B	C2-12-2-A	C2-12-2-A-D	C2-12-2-B	C2-12-3-A	C2-12-3-B	C2-12-4-A
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678251**	**3678268**	**3678269**	**3678270**	**3678271**	**3678272**	**3678273**	**3678277**
Benzene	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10	11	<10	<10	<10	<10	<10
C16 - C34 (F3)	mg/kg		10	438	20	382	485	<10	13	21	44
C34 - C50 (F4)	mg/kg		10	279	18	243	283	<10	20	12	44
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	60	16	51	71	13	12	13	18
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8 (BTEX)	%	50-150		101	102	100	100	101	99	94	101
Ethylbenzene-d10 (BTEX)	%	50-150		89	108	96	82	105	96	100	94
o-Terphenyl (F2-F4)	%	50-150		112	103	105	105	100	101	103	101

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-4-B	C2-12-5-A	C2-12-5-B	C2-12-6-A	C2-12-6-B	C2-12-7-A	C2-12-7-B	C2-12-8-A
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678282**	**3678283**	**3678286**	**3678288**	**3678289**	**3678290**	**3678292**	**3678293**
Benzene	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10	<10	<10	<10	11	<10	<10
C16 - C34 (F3)	mg/kg		10	12	101	<10	<10	31	435	115	106
C34 - C50 (F4)	mg/kg		10	19	78	11	<10	28	288	87	89
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	16	16	5.8	5.9	5.9	51	25	19
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8 (BTEX)	%	50-150		98	100	100	100	100	100	99	101
Ethylbenzene-d10 (BTEX)	%	50-150		85	92	97	96	86	85	80	80
o-Terphenyl (F2-F4)	%	50-150		102	103	103	101	104	106	100	106

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-8-B	C2-12-9-A	C2-12-9-B	C2-12-10-A	C2-12-10-B	C2-12-11-A	C2-12-11-A-D	C2-12-11-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678294**	**3678295**	**3678296**	**3678297**	**3678298**	**3678299**	**3678301**	**3678302**
Benzene	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C16 - C34 (F3)	mg/kg		10	59	24	42	32	14	130	210	12
C34 - C50 (F4)	mg/kg		10	58	35	51	34	<10	109	183	21
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	15	12	17	9.6	8.8	29	27	16
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8 (BTEX)	%	50-150		100	100	100	100	104	102	103	100
Ethylbenzene-d10 (BTEX)	%	50-150		90	102	93	91	100	88	91	85
o-Terphenyl (F2-F4)	%	50-150		114	102	102	105	112	102	104	99

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-12-A	C2-12-12-B	C2-12-13-A	C2-12-13-B	C2-12-14-A	C2-12-14-B	C2-12-MW1-A	C2-12-MW1-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678304**	**3678305**	**3678306**	**3678307**	**3678321**	**3678322**	**3678323**	**3678325**
Benzene	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	17
C16 - C34 (F3)	mg/kg		10	32	<10	14	<10	58	<10	29	52
C34 - C50 (F4)	mg/kg		10	27	<10	16	<10	51	12	22	34
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	16	3.6	18	15	13	6.6	6.1	11
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8 (BTEX)	%	50-150		104	103	103	104	103	98	94	102
Ethylbenzene-d10 (BTEX)	%	50-150		99	94	86	91	106	84	76	91
o-Terphenyl (F2-F4)	%	50-150		100	96	98	99	98	96	99	99

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-MW2-A	C2-12-MW2-A-D	C2-12-MW3-A	C2-12-MW3-B	C2-12-MW4-A	C2-12-MW4-B	C2-12-MW5-A	C2-12-MW5-A-D
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-24	2012-08-24
Parameter	**Unit**	**G / S**	**RDL**	**3678326**	**3678328**	**3678329**	**3678331**	**3678332**	**3678333**	**3678334**	**3678335**
Benzene	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C16 - C34 (F3)	mg/kg		10	47	47	162	11	119	<10	136	147
C34 - C50 (F4)	mg/kg		10	26	25	132	14	82	<10	109	117
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	9.1	9.9	23	14	16	3.9	23	25
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8 (BTEX)	%	50-150		98	101	99	103	99	100	97	98
Ethylbenzene-d10 (BTEX)	%	50-150		72	89	84	93	77	90	84	82
o-Terphenyl (F2-F4)	%	50-150		103	99	104	95	100	97	98	98

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-MW5-B	C2-12-MW6-A	C2-12-MW6-B	C2-12-MW7-A	C2-12-MW7-B	C2-12-MW8-A	C2-12-MW8-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24
Parameter	**Unit**	**G / S**	**RDL**	**3678336**	**3678337**	**3678338**	**3678339**	**3678341**	**3678343**	**3678346**
Benzene	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10	<10	<10	<10	46	<10
C16 - C34 (F3)	mg/kg		10	<10	133	<10	306	195	1320	25
C34 - C50 (F4)	mg/kg		10	<10	106	<10	213	125	951	29
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	8.7	28	12	22	13	64	10
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8 (BTEX)	%	50-150		101	98	100	95	100	103	101
Ethylbenzene-d10 (BTEX)	%	50-150		87	85	99	85	92	77	92
o-Terphenyl (F2-F4)	%	50-150		98	96	97	100	97	100	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ABTier1 (Ag,F)

3678251-3678346 Results are based on the dry weight of the sample.
The C6-C10 (F1) fraction is calculated using toluene response factor.
The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
Quality control data is available upon request.
Assistance in the interpretation of data is available upon request.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
The chromatogram returned to baseline by the retention time of nC50.
Extraction and holding times were met for this sample.

Sample holding time exceeded.

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Petroleum Hydrocarbons (BTEX/F1-F4) in Water

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-MW1	C2-12-MW2	C2-12-MW3	C2-12-MW4	C2-12-MW5	C2-12-MW6	C2-12-MW6-D	C2-12-MW7
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678347**	**3678348**	**3678349**	**3678350**	**3678351**	**3678352**	**3678353**	**3678354**
Benzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Xylenes	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
C6 - C10 (F1)	mg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C6 - C10 (F1 minus BTEX)	mg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C>10 - C16	mg/L		0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C>16 - C34	mg/L		0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
C>34 - C50	mg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8 (BTEX)	%	50-150		106	106	106	104	106	106	106	107
o-Terphenyl (F2-F4)	%	50-150		104	103	104	103	102	101	102	103

		SAMPLE DESCRIPTION:		C2-12-MW8	Method Blank
		SAMPLE TYPE:		Water	Water
		DATE SAMPLED:		2012-08-25	2012-08-28
Parameter	**Unit**	**G / S**	**RDL**	**3678355**	**3678359**
Benzene	mg/L		0.0005	<0.0005	<0.0005
Toluene	mg/L		0.0005	<0.0005	<0.0005
Ethylbenzene	mg/L		0.0005	<0.0005	<0.0005
Xylenes	mg/L		0.0005	<0.0005	<0.0005
C6 - C10 (F1)	mg/L		0.1	<0.1	<0.1
C6 - C10 (F1 minus BTEX)	mg/L		0.1	<0.1	<0.1
C>10 - C16	mg/L		0.1	<0.1	<0.1
C>16 - C34	mg/L		0.1	1.7	<0.1
C>34 - C50	mg/L		0.1	<0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8 (BTEX)	%	50-150		105	106
o-Terphenyl (F2-F4)	%	50-150		103	102

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Certificate of Analysis

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Petroleum Hydrocarbons (BTEX/F1-F4) in Water

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3678347-3678359 The C>6 - C10 fraction is calculated using the toluene response factor.
The C10 - C16 fraction is calculated using the average response factor for nC10, nC16 and nC34.
BTEX has NOT been subtracted from Fraction 1.
Sample is blank corrected.

Sample holding time exceeded.

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Polychlorinated Biphenyls Analysis - Soil

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-1-A	C2-12-1-B	C2-12-2-A	C2-12-2-A-D	C2-12-2-B	C2-12-3-A	C2-12-3-B	C2-12-4-A
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678251**	**3678268**	**3678269**	**3678270**	**3678271**	**3678272**	**3678273**	**3678277**
Aroclor 1242	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Polychlorinated Biphenyls	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**									
Decachlorobiphenyl	%	50-150		80	76	68	66	79	65	79	65

		SAMPLE DESCRIPTION:		C2-12-4-B	C2-12-5-A	C2-12-5-B	C2-12-6-A	C2-12-6-B	C2-12-7-A	C2-12-7-B	C2-12-8-A
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678282**	**3678283**	**3678286**	**3678288**	**3678289**	**3678290**	**3678292**	**3678293**
Aroclor 1242	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Polychlorinated Biphenyls	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**									
Decachlorobiphenyl	%	50-150		63	61	64	60	76	81	77	82

		SAMPLE DESCRIPTION:		C2-12-8-B	C2-12-9-A	C2-12-9-B	C2-12-10-A	C2-12-10-B	C2-12-11-A	C2-12-11-A-D	C2-12-11-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678294**	**3678295**	**3678296**	**3678297**	**3678298**	**3678299**	**3678301**	**3678302**
Aroclor 1242	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Polychlorinated Biphenyls	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**									
Decachlorobiphenyl	%	50-150		84	81	79	86	81	84	81	76

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Certificate of Analysis

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Polychlorinated Biphenyls Analysis - Soil

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-12-A	C2-12-12-B	C2-12-13-A	C2-12-13-B	C2-12-14-A	C2-12-14-B	C2-12-MW1-A	C2-12-MW1-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678304**	**3678305**	**3678306**	**3678307**	**3678321**	**3678322**	**3678323**	**3678325**
Aroclor 1242	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Polychlorinated Biphenyls	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**									
Decachlorobiphenyl	%	50-150		82	82	84	84	85	86	84	85

		SAMPLE DESCRIPTION:		C2-12-MW2-A	C2-12-MW2-A-D	C2-12-MW3-A	C2-12-MW3-B	C2-12-MW4-A	C2-12-MW4-B	C2-12-MW5-A	C2-12-MW5-A-D
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-24	2012-08-24
Parameter	**Unit**	**G / S**	**RDL**	**3678326**	**3678328**	**3678329**	**3678331**	**3678332**	**3678333**	**3678334**	**3678335**
Aroclor 1242	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Polychlorinated Biphenyls	mg/kg		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**									
Decachlorobiphenyl	%	50-150		88	88	94	87	90.8	82	85	80

		SAMPLE DESCRIPTION:		C2-12-MW5-B	C2-12-MW6-A	C2-12-MW6-B	C2-12-MW7-A	C2-12-MW7-B	C2-12-MW8-A	C2-12-MW8-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24
Parameter	**Unit**	**G / S**	**RDL**	**3678336**	**3678337**	**3678338**	**3678339**	**3678341**	**3678343**	**3678346**
Aroclor 1242	mg/kg		0.05	115	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	mg/kg		0.05	146	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	mg/kg		0.05	107	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Polychlorinated Biphenyls	mg/kg		0.05	123	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**								
Decachlorobiphenyl	%	50-150		90	83	83	84	84	87	84

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3678251-3678346 Results are based on the dry weight of the sample.

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Polychlorinated Biphenyls Analysis - Water

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-MW1	C2-12-MW2	C2-12-MW3	C2-12-MW4	C2-12-MW5	C2-12-MW6	C2-12-MW6-D	C2-12-MW7
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678347**	**3678348**	**3678349**	**3678350**	**3678351**	**3678352**	**3678353**	**3678354**
Aroclor 1242	µg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1254	µg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1260	µg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Polychlorinated Biphenyls	µg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Surrogate	**Unit**	**Acceptable Limits**									
Decachlorobiphenyl	%	50-150		83	82	83	76	84	92	90	88

		SAMPLE DESCRIPTION:		C2-12-MW8	Method Blank
		SAMPLE TYPE:		Water	Water
		DATE SAMPLED:		2012-08-25	2012-08-28
Parameter	**Unit**	**G / S**	**RDL**	**3678355**	**3678359**
Aroclor 1242	µg/L		0.01	<0.01	<0.01
Aroclor 1254	µg/L		0.01	<0.01	<0.01
Aroclor 1260	µg/L		0.01	<0.01	<0.01
Polychlorinated Biphenyls	µg/L		0.01	<0.01	<0.01
Surrogate	**Unit**	**Acceptable Limits**			
Decachlorobiphenyl	%	50-150		90	94

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

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Certificate of Analysis

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Total Petroleum Hydrocarbon Analysis - Soil

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

Parameter	Unit	G / S	RDL	C2-12-1-A Soil 2012-08-25 3678251	C2-12-1-B Soil 2012-08-25 3678268	C2-12-2-A Soil 2012-08-25 3678269	C2-12-2-A-D Soil 2012-08-25 3678270	C2-12-2-B Soil 2012-08-25 3678271	C2-12-3-A Soil 2012-08-25 3678272	C2-12-3-B Soil 2012-08-25 3678273	C2-12-4-A Soil 2012-08-25 3678277
Total Purgeable Hydrocarbons	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
Total Extractable Hydrocarbons	mg/kg		10	280	11	261	351	11	<10	<10	26
Total Petroleum Hydrocarbons	mg/kg		10	280	11	261	351	11	<10	<10	26

Parameter	Unit	G / S	RDL	C2-12-4-B Soil 2012-08-25 3678282	C2-12-5-A Soil 2012-08-25 3678283	C2-12-5-B Soil 2012-08-25 3678286	C2-12-6-A Soil 2012-08-25 3678288	C2-12-6-B Soil 2012-08-25 3678289	C2-12-7-A Soil 2012-08-25 3678290	C2-12-7-B Soil 2012-08-25 3678292	C2-12-8-A Soil 2012-08-25 3678293
Total Purgeable Hydrocarbons	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
Total Extractable Hydrocarbons	mg/kg		10	<10	60	<10	<10	18	300	77	59
Total Petroleum Hydrocarbons	mg/kg		10	<10	60	<10	<10	18	300	77	59

Parameter	Unit	G / S	RDL	C2-12-8-B Soil 2012-08-25 3678294	C2-12-9-A Soil 2012-08-25 3678295	C2-12-9-B Soil 2012-08-25 3678296	C2-12-10-A Soil 2012-08-25 3678297	C2-12-10-B Soil 2012-08-25 3678298	C2-12-11-A Soil 2012-08-25 3678299	C2-12-11-A-D Soil 2012-08-25 3678301	C2-12-11-B Soil 2012-08-25 3678302
Total Purgeable Hydrocarbons	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
Total Extractable Hydrocarbons	mg/kg		10	35	15	28	20	<10	130	160	<10
Total Petroleum Hydrocarbons	mg/kg		10	35	15	28	20	<10	130	160	<10

Parameter	Unit	G / S	RDL	C2-12-12-A Soil 2012-08-25 3678304	C2-12-12-B Soil 2012-08-25 3678305	C2-12-13-A Soil 2012-08-25 3678306	C2-12-13-B Soil 2012-08-25 3678307	C2-12-14-A Soil 2012-08-25 3678321	C2-12-14-B Soil 2012-08-25 3678322	C2-12-MW1-A Soil 2012-08-25 3678323	C2-12-MW1-B Soil 2012-08-25 3678325
Total Purgeable Hydrocarbons	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
Total Extractable Hydrocarbons	mg/kg		10	20	<10	<10	<10	40	<10	20	50
Total Petroleum Hydrocarbons	mg/kg		10	20	<10	<10	<10	40	<10	20	50

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Total Petroleum Hydrocarbon Analysis - Soil

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-MW2-A	C2-12-MW2-A-D	C2-12-MW3-A	C2-12-MW3-B	C2-12-MW4-A	C2-12-MW4-B	C2-12-MW5-A	C2-12-MW5-A-D
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-25	2012-08-24	2012-08-24
Parameter	**Unit**	**G / S**	**RDL**	**3678326**	**3678328**	**3678329**	**3678331**	**3678332**	**3678333**	**3678334**	**3678335**
Total Purgeable Hydrocarbons	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
Total Extractable Hydrocarbons	mg/kg		10	40	40	130	<10	90	<10	100	120
Total Petroleum Hydrocarbons	mg/kg		10	40	40	130	<10	90	<10	100	120

		SAMPLE DESCRIPTION:		C2-12-MW5-B	C2-12-MW6-A	C2-12-MW6-B	C2-12-MW7-A	C2-12-MW7-B	C2-12-MW8-A	C2-12-MW8-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-24
Parameter	**Unit**	**G / S**	**RDL**	**3678336**	**3678337**	**3678338**	**3678339**	**3678341**	**3678343**	**3678346**
Total Purgeable Hydrocarbons	mg/kg		10	<10	<10	<10	<10	<10	<10	<10
Total Extractable Hydrocarbons	mg/kg		10	<10	90	<10	240	140	1100	20
Total Petroleum Hydrocarbons	mg/kg		10	<10	90	<10	240	140	1100	20

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3678251-3678346 Results are based on the dry weight of the sample.
Recovery of toluene-d8 surrogate added to sample prior to TPGH analysis: %
Total Petroleum Hydrocarbons (TPH, n-C5 - n-C32); Calculated based on addition of n-C5 to n-C10 fraction (purgeable method) and n-C10 to n-C32 fraction (TEH extraction).
Total Extractable Hydrocarbons (TEH, n-C10 - n-C32); Calculated based on all extractable compounds using n-eicosane response.
Total Purgeable Hydrocarbons (TPGH, n- C5 - n-C10); Calculated based on all purgeable compounds using toluene response.
Sample is blank corrected.

Sample holding time exceeded.

Certified By:

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

Total Petroleum Hydrocarbon Analysis - Water

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-MW1	C2-12-MW2	C2-12-MW3	C2-12-MW4	C2-12-MW5	C2-12-MW6	C2-12-MW6-D	C2-12-MW7
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-25	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678347**	**3678348**	**3678349**	**3678350**	**3678351**	**3678352**	**3678353**	**3678354**
Total Purgeable Hydrocarbons	mg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Extractable Hydrocarbons	mg/L		0.1	0.3	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Total Petroleum Hydrocarbons	mg/L		0.1	0.3	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8 (BTEX)	%	50-150		106	106	106	104	106	106	106	107
o-Terphenyl (TEH)	%	50-150		101	100	101	100	99	98	99	100

		SAMPLE DESCRIPTION:		C2-12-MW8	Method Blank
		SAMPLE TYPE:		Water	Water
		DATE SAMPLED:		2012-08-25	2012-08-28
Parameter	**Unit**	**G / S**	**RDL**	**3678355**	**3678359**
Total Purgeable Hydrocarbons	mg/L		0.1	<0.1	<0.1
Total Extractable Hydrocarbons	mg/L		0.1	1.5	<0.1
Total Petroleum Hydrocarbons	mg/L		0.1	1.5	<0.1
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8 (BTEX)	%	50-150		105	106
o-Terphenyl (TEH)	%	50-150		100	99

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3678347-3678359 Recovery of toluene-d8 surrogate added to sample prior to TPGH analysis: %
Total Petroleum Hydrocarbons (TPH, n-C5 - n-C32); Calculated based on addition of n-C5 to n-C10 fraction (purgeable method) and n-C10 to n-C32 fraction (TEH extraction).
Total Extractable Hydrocarbons (TEH, n-C10 - n-C32); Calculated based on all extractable compounds using n-eicosane response.
Total Purgeable Hydrocarbons (TPGH, n- C5 - n-C10); Calculated based on all purgeable compounds using toluene response.
Sample is blank corrected.

Sample holding time exceeded.

Certified By:

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AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

CCME / Alberta Tier 1 Metals (Total) + Hg

DATE RECEIVED: 2012-09-04

DATE REPORTED: 2012-09-13

		SAMPLE DESCRIPTION:		C2-12-MW1	C2-12-MW2	C2-12-MW3	C2-12-MW4	C2-12-MW5	C2-12-MW6	C2-12-MW6-D
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2012-08-24	2012-08-24	2012-08-24	2012-08-24	2012-08-25	2012-08-25	2012-08-25
Parameter	**Unit**	**G / S**	**RDL**	**3678347**	**3678348**	**3678349**	**3678350**	**3678351**	**3678352**	**3678353**
Total Arsenic	mg/L	0.005	0.001	0.005	**0.006**	**0.007**	0.005	0.003	**0.008**	**0.008**
Total Cadmium	mg/L	0.000017	0.000016	**0.000102**	**0.000071**	**0.000043**	**0.000104**	**0.000096**	**0.000116**	**0.000075**
Total Chromium	mg/L		0.001	0.007	0.165	0.020	0.348	0.029	0.204	0.103
Total Copper	mg/L	0.002	0.002	**0.011**	**0.019**	**0.018**	**0.015**	**0.015**	**0.025**	**0.020**
Total Lead	mg/L	0.001	0.001	**0.003**	**0.004**	**0.004**	0.001	**0.002**	**0.005**	**0.003**
Total Nickel	mg/L	0.025	0.01	**0.05**	**0.14**	**0.06**	**0.03**	**0.03**	**0.04**	**0.03**
Total Zinc	mg/L	0.03	0.001	**18.4**	**10.3**	**0.978**	**26.0**	**0.313**	**0.262**	**0.225**
Total Mercury	mg/L	0.000026	0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025

		SAMPLE DESCRIPTION:		C2-12-MW7		C2-12-MW8	Method Blank
		SAMPLE TYPE:		Water		Water	Water
		DATE SAMPLED:		2012-08-25		2012-08-25	2012-08-28
Parameter	**Unit**	**G / S**	**RDL**	**3678354**	**RDL**	**3678355**	**3678359**
Total Arsenic	mg/L	0.005	0.001	**0.015**	0.001	**0.008**	<0.001
Total Cadmium	mg/L	0.000017	0.000160	<0.000160	0.000016	**0.000372**	<0.000016
Total Chromium	mg/L		0.001	1.02	0.001	0.018	0.001
Total Copper	mg/L	0.002	0.002	**0.052**	0.002	**0.021**	<0.002
Total Lead	mg/L	0.001	0.001	**0.003**	0.001	**0.002**	<0.001
Total Nickel	mg/L	0.025	0.01	**0.34**	0.01	**0.07**	<0.01
Total Zinc	mg/L	0.03	0.001	**0.292**	0.001	**0.123**	0.002
Total Mercury	mg/L	0.000026	0.000025	<0.000025	0.000025	<0.000025	<0.000025

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ABTier1 GW (Ag, F)
3678347-3678359 < - Values refer to Report Detection Limit.

Certified By:

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Guideline Violation

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
3678347	C2-12-MW1	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Cadmium	0.000017	0.000102
3678347	C2-12-MW1	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.011
3678347	C2-12-MW1	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Lead	0.001	0.003
3678347	C2-12-MW1	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.05
3678347	C2-12-MW1	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	18.4
3678348	C2-12-MW2	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Arsenic	0.005	0.006
3678348	C2-12-MW2	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Cadmium	0.000017	0.000071
3678348	C2-12-MW2	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.019
3678348	C2-12-MW2	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Lead	0.001	0.004
3678348	C2-12-MW2	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.14
3678348	C2-12-MW2	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	10.3
3678349	C2-12-MW3	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Arsenic	0.005	0.007
3678349	C2-12-MW3	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Cadmium	0.000017	0.000043
3678349	C2-12-MW3	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.018
3678349	C2-12-MW3	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Lead	0.001	0.004
3678349	C2-12-MW3	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.06
3678349	C2-12-MW3	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	0.978
3678350	C2-12-MW4	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Cadmium	0.000017	0.000104
3678350	C2-12-MW4	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.015
3678350	C2-12-MW4	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.03
3678350	C2-12-MW4	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	26.0
3678351	C2-12-MW5	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Cadmium	0.000017	0.000096
3678351	C2-12-MW5	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.015
3678351	C2-12-MW5	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Lead	0.001	0.002
3678351	C2-12-MW5	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.03
3678351	C2-12-MW5	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	0.313
3678352	C2-12-MW6	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Arsenic	0.005	0.008
3678352	C2-12-MW6	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Cadmium	0.000017	0.000116
3678352	C2-12-MW6	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.025
3678352	C2-12-MW6	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Lead	0.001	0.005
3678352	C2-12-MW6	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.04
3678352	C2-12-MW6	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	0.262
3678353	C2-12-MW6-D	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Arsenic	0.005	0.008
3678353	C2-12-MW6-D	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Cadmium	0.000017	0.000075
3678353	C2-12-MW6-D	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.020
3678353	C2-12-MW6-D	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Lead	0.001	0.003
3678353	C2-12-MW6-D	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.03
3678353	C2-12-MW6-D	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	0.225
3678354	C2-12-MW7	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Arsenic	0.005	0.015
3678354	C2-12-MW7	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.052
3678354	C2-12-MW7	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Lead	0.001	0.003
3678354	C2-12-MW7	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.34
3678354	C2-12-MW7	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	0.292

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Guideline Violation

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

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CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

ATTENTION TO: Brandon Mac Kay

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
3678355	C2-12-MW8	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Arsenic	0.005	0.008
3678355	C2-12-MW8	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Cadmium	0.000017	0.000372
3678355	C2-12-MW8	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Copper	0.002	0.021
3678355	C2-12-MW8	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Lead	0.001	0.002
3678355	C2-12-MW8	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Nickel	0.025	0.07
3678355	C2-12-MW8	ABTier1 GW (Ag, F)	CCME / Alberta Tier 1 Metals (Total) + Hg	Total Zinc	0.03	0.123

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Quality Assurance

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

ATTENTION TO: Brandon Mac Kay

Soil Analysis

RPT Date: Sep 13, 2012			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
CCME / Alberta Tier 1 Metals (soil) + Hg															
Arsenic	733	3678273	0.9	1.0	10.5%	< 0.5	93%	80%	120%				93%	80%	120%
Cadmium	733	3678273	< 0.5	< 0.5	0.0%	< 0.5	95%	80%	120%				94%	80%	120%
Chromium	733	3678273	4.7	4.5	4.3%	< 0.5	100%	80%	120%				98%	80%	120%
Cobalt	733	3678273	1.3	1.3	0.0%	< 0.5	101%	80%	120%				92%	80%	120%
Lead	733	3678273	2.92	3.31	12.5%	< 0.5	102%	80%	120%				96%	80%	120%
Nickel	733	3678273	3.84	4.04	5.1%	< 0.5	100%	80%	120%				93%	80%	120%
Zinc	733	3678273	6	6	0.0%	< 1	105%	80%	120%				98%	80%	120%
Mercury	733	3678273	< 0.5	< 0.5	0.0%	< 0.5	99%	80%	120%		90%	110%	95%	80%	120%
Soil Analysis - Copper															
Copper	733	3678273	4.0	3.9	2.5%	< 0.5	102%	80%	120%		80%	120%	91%	80%	120%

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Quality Assurance

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP. **AGAT WORK ORDER: 12E638576**

PROJECT NO: Soil and Water Sample **ATTENTION TO: Brandon Mac Kay**

Trace Organics Analysis

RPT Date: Sep 13, 2012			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Polychlorinated Biphenyls Analysis - Soil															
Aroclor 1242	117	3678273	< 0.05	< 0.05	NA	< 0.05	96%	80%	120%	98%	70%	130%	100%	50%	150%
Aroclor 1254	117	3678273	< 0.05	< 0.05	NA	< 0.05	97%	80%	120%	120%	70%	130%	105%	50%	150%
Aroclor 1260	117	3678273	< 0.05	< 0.05	NA	< 0.05	88%	80%	120%	86%	70%	130%	110%	50%	150%
Total Polychlorinated Biphenyls	117	3678273	< 0.05	< 0.05	NA	< 0.05	94%	80%	120%	101%	70%	130%	105%	50%	150%
Polychlorinated Biphenyls Analysis - Soil															
Aroclor 1242	118	3678307	<0.05	<0.05	NA	< 0.05	120%	80%	120%	101%	70%	130%	116%	50%	150%
Aroclor 1254	118	3678307	<0.05	<0.05	NA	< 0.05	111%	80%	120%	104%	70%	130%	119%	50%	150%
Aroclor 1260	118	3678307	<0.05	<0.05	NA	< 0.05	97%	80%	120%	95%	70%	130%	102%	50%	150%
Total Polychlorinated Biphenyls	118	3678307	<0.05	<0.05	NA	< 0.05	111%	80%	120%	109%	70%	130%	122%	50%	150%
Polychlorinated Biphenyls Analysis - Soil															
Aroclor 1242	120	3678332	<0.05	<0.05	0.0%	< 0.05	120%	80%	120%	105%	70%	130%	115%	50%	150%
Aroclor 1254	120	3678332	<0.05	<0.05	0.0%	< 0.05	116%	80%	120%	103%	70%	130%	146%	50%	150%
Aroclor 1260	120	3678332	<0.05	<0.05	0.0%	< 0.05	108%	80%	120%	98%	70%	130%	107%	50%	150%
Total Polychlorinated Biphenyls	120	3678332	<0.05	<0.05	0.0%	< 0.05	116%	80%	120%	112%	70%	130%	123%	50%	150%
Total Petroleum Hydrocarbon Analysis - Soil															
Total Purgeable Hydrocarbons	331	3678273	<10	<10	NA	< 10	107%	80%	120%	83%	80%	120%	84%	60%	140%
Total Extractable Hydrocarbons	1538	3678273	< 10	< 10	NA	< 10	99%	80%	120%	103%	80%	120%	104%	60%	140%
Total Petroleum Hydrocarbon Analysis - Soil															
Total Purgeable Hydrocarbons	332	3678307	<10	<10	NA	< 10	106%	80%	120%	85%	80%	120%	88%	60%	140%
Total Extractable Hydrocarbons	1538	3678307	<10	<10	NA	< 10	101%	80%	120%	100%	80%	120%	103%	60%	140%
Total Petroleum Hydrocarbon Analysis - Soil															
Total Purgeable Hydrocarbons	1577	3678332	<10	<10	NA	< 10	91%	80%	120%	92%	80%	120%	78%	60%	140%
Total Petroleum Hydrocarbon Analysis - Soil															
Total Extractable Hydrocarbons	1538	3678332	90	83	8.1%	< 10	97%	80%	120%	101%	80%	120%	99%	60%	140%
Polychlorinated Biphenyls Analysis - Water															
Aroclor 1242	117	3678349	< 0.01	< 0.01	NA	< 0.01	102%	80%	120%	89%	70%	130%	81%	50%	150%
Aroclor 1254	117	3678349	< 0.01	< 0.01	NA	< 0.01	99%	80%	120%	98%	70%	130%	84%	50%	150%
Aroclor 1260	117	3678349	< 0.01	< 0.01	NA	< 0.01	100%	80%	120%	78%	70%	130%	69%	50%	150%
Polychlorinated Biphenyls	117	3678349	< 0.01	< 0.01	NA	< 0.01	100%	80%	120%	88%	70%	130%	78%	50%	150%
Total Petroleum Hydrocarbon Analysis - Water															
Total Purgeable Hydrocarbons	3618	3678851	<0.1	<0.1	NA	< 0.1	112%	80%	120%	114%	80%	120%	124%	70%	130%
Total Extractable Hydrocarbons	168	3678349	0.2	<0.1	NA	< 0.1	96%	80%	120%	89%	80%	120%	92%	70%	130%
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)															
Benzene	331	3678273	<0.005	<0.005	NA	< 0.005	90%	80%	120%	84%	80%	120%	81%	60%	140%
Toluene	331	3678273	<0.05	<0.05	NA	< 0.05	91%	80%	120%	80%	80%	120%	79%	60%	140%
Ethylbenzene	331	3678273	<0.01	<0.01	NA	< 0.01	95%	80%	120%	91%	80%	120%	90%	60%	140%

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Quality Assurance

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP. **AGAT WORK ORDER: 12E638576**

PROJECT NO: Soil and Water Sample **ATTENTION TO: Brandon Mac Kay**

Trace Organics Analysis (Continued)

RPT Date: Sep 13, 2012			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Xylenes	331	3678273	<0.05	<0.05	NA	< 0.05	90%	80%	120%	84%	80%	120%	80%	60%	140%
C6 - C10 (F1)	331	3678273	<10	<10	NA	< 10	107%	80%	120%	83%	80%	120%	84%	60%	140%
C10 - C16 (F2)	1538	3678273	<10	<10	NA	< 10	99%	80%	120%	93%	80%	120%	103%	60%	140%
C16 - C34 (F3)	1538	3678273	21	12	NA	< 10	99%	80%	120%	92%	80%	120%	102%	60%	140%
C34 - C50 (F4)	1538	3678273	12	17	NA	< 10	99%	80%	120%	89%	80%	120%	101%	60%	140%
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)															
Benzene	332	3678307	<0.005	<0.005	NA	< 0.005	101%	80%	120%	83%	80%	120%	84%	60%	140%
Toluene	332	3678307	<0.05	<0.05	NA	< 0.05	81%	80%	120%	80%	80%	120%	78%	60%	140%
Ethylbenzene	332	3678307	<0.01	<0.01	NA	< 0.01	102%	80%	120%	91%	80%	120%	90%	60%	140%
Xylenes	332	3678307	<0.05	<0.05	NA	< 0.05	109%	80%	120%	84%	80%	120%	80%	60%	140%
C6 - C10 (F1)	332	3678307	<10	<10	NA	< 10	106%	80%	120%	85%	80%	120%	88%	60%	140%
C10 - C16 (F2)	1538	3678307	<10	<10	NA	< 10	99%	80%	120%	91%	80%	120%	102%	60%	140%
C16 - C34 (F3)	1538	3678307	<10	<10	NA	< 10	99%	80%	120%	86%	80%	120%	105%	60%	140%
C34 - C50 (F4)	1538	3678307	<10	<10	NA	< 10	99%	80%	120%	87%	80%	120%	103%	60%	140%
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)															
Benzene	1577	3678332	<0.005	<0.005	NA	< 0.005	99%	80%	120%	88%	80%	120%	92%	60%	140%
Toluene	1577	3678332	<0.05	<0.05	NA	< 0.05	92%	80%	120%	88%	80%	120%	88%	60%	140%
Ethylbenzene	1577	3678332	<0.01	<0.01	NA	< 0.01	91%	80%	120%	97%	80%	120%	88%	60%	140%
Xylenes	1577	3678332	<0.05	<0.05	NA	< 0.05	88%	80%	120%	95%	80%	120%	87%	60%	140%
C6 - C10 (F1)	1577	3678332	<10	<10	NA	< 10	91%	80%	120%	92%	80%	120%	78%	60%	140%
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)															
C10 - C16 (F2)	1538	3678332	<10	<10	NA	< 10	99%	80%	120%	92%	80%	120%	97%	60%	140%
C16 - C34 (F3)	1538	3678332	119	112	6.0%	< 10	99%	80%	120%	89%	80%	120%	98%	60%	140%
C34 - C50 (F4)	1538	3678332	82	82	0.0%	< 10	99%	80%	120%	90%	80%	120%	98%	60%	140%
Petroleum Hydrocarbons (BTEX/F1-F4) in Water															
Benzene	3618	3678851	<0.0005	<0.0005	NA	< 0.0005	99%	80%	120%	103%	80%	120%	101%	70%	130%
Toluene	3618	3678851	<0.0005	<0.0005	NA	< 0.0005	96%	80%	120%	97%	80%	120%	93%	70%	130%
Ethylbenzene	3618	3678851	<0.0005	<0.0005	NA	< 0.0005	96%	80%	120%	100%	80%	120%	94%	70%	130%
Xylenes	3618	3678851	<0.0005	<0.0005	NA	< 0.0005	93%	80%	120%	95%	80%	120%	93%	70%	130%
C6 - C10 (F1)	3618	3678851	<0.1	<0.1	NA	< 0.1	112%	80%	120%	114%	80%	120%	124%	70%	130%
C>10 - C16	168	3678349	<0.1	<0.1	NA	< 0.1	104%	80%	120%	90%	80%	120%	102%	70%	130%
C>16 - C34	168	3678349	0.2	0.1	NA	< 0.1	104%	80%	120%	99%	80%	120%	105%	70%	130%
C>34 - C50	168	3678349	<0.1	<0.1	NA	< 0.1	104%	80%	120%						

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Quality Assurance

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP.

AGAT WORK ORDER: 12E638576

PROJECT NO: Soil and Water Sample

ATTENTION TO: Brandon Mac Kay

Water Analysis

RPT Date: Sep 13, 2012			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
CCME / Alberta Tier 1 Metals (Total) + Hg															
Total Arsenic	774	854	0.003	0.003	0.0%	< 0.001	90%	80%	120%				92%	80%	120%
Total Cadmium	774	854	<0.	<0.	0.0%	< 0.000016	94%	80%	120%				94%	80%	120%
Total Chromium	774	854	0.001	0.001	0.0%	< 0.001	106%	80%	120%				102%	80%	120%
Total Copper	774	854	0.002	0.002	0.0%	< 0.002	108%	80%	120%				103%	80%	120%
Total Lead	774	854	<0.001	<0.001	0.0%	< 0.001	103%	80%	120%				103%	80%	120%
Total Nickel	774	854	0.007	0.007	0.0%	< 0.01	105%	80%	120%				104%	80%	120%
Total Zinc	774	854	0.005	0.005	0.0%	< 0.001	98%	80%	120%				97%	80%	120%
Total Mercury	1242	8347	<0.	<0.	0.0%	< 0.000025	103%	90%	110%	101%	90%	110%	101%	80%	120%

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Method Summary

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP. **AGAT WORK ORDER: 12E638576**

PROJECT NO: Soil and Water Sample **ATTENTION TO: Brandon Mac Kay**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Arsenic	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP/MS
Cadmium	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP/MS
Chromium	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP/MS
Cobalt	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP/MS
Lead	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP/MS
Nickel	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP/MS
Zinc	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP/MS
Mercury	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP-MS
Copper	SOIL 0390; SOIL 0110; SOIL 0120; INST 0141	EPA SW 846-3050/6010; SHEPPARD	ICP-MS

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Method Summary

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP. **AGAT WORK ORDER: 12E638576**

PROJECT NO: Soil and Water Sample **ATTENTION TO: Brandon Mac Kay**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Benzene	TO 0540	EPA SW846 8260	GC/MS
Toluene	TO 0540	EPA SW846 8260	GC/MS
Ethylbenzene	TO 0540	EPA SW846 8260	GC/MS
Xylenes	TO 0540	EPA SW846 8260	GC/MS
C6 - C10 (F1)	TO 0540	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0540	CCME Tier 1 Method	GC/FID
C>10 - C16	TO 0511	CCME Tier 1 Method	GC/FID
C>16 - C34	TO 0511	CCME Tier 1 Method	GC/FID
C>34 - C50	TO 0511	CCME Tier 1 Method	GC/FID
Toluene-d8 (BTEX)	TO 0340	EPA SW846 8260	GC/FID
o-Terphenyl (F2-F4)	TO 0511	CCME Tier 1 Method	GC/FID
Aroclor 1242	TO 0410	EPA 8082	GC/ECD
Aroclor 1254	TO 0410	EPA 8082	GC/ECD
Aroclor 1260	TO 0410	EPA 8082	GC/ECD
Total Polychlorinated Biphenyls	TO 0410	EPA 8082	GC/ECD
Decachlorobiphenyl	TO 0410	EPA 8082	GC/ECD
Aroclor 1242	TO 0400	EPA 8082, AEC A106.0	GC/ECD
Aroclor 1254	TO 0400	EPA 8082, AEC A106.0	GC/ECD
Aroclor 1260	TO 0400	EPA 8082, AEC A106.0	GC/ECD
Polychlorinated Biphenyls	TO 0400	EPA 8082, AEC A106.0	GC/ECD
Decachlorobiphenyl	TO 0400	EPA 8082, AEC A106.0	GC/ECD
Total Purgeable Hydrocarbons	TO 0530	EPA SW-846 5035/8015	GC/FID
Total Extractable Hydrocarbons	TO 0510	AEC G108.0	GC/FID
Total Petroleum Hydrocarbons	TO 0510/0530	EPA SW-846 5035/8015, AEC G108.0	GC/FID
Total Purgeable Hydrocarbons	TO 0530	EPA 624 & SW-846 3810	GC/MS
Total Extractable Hydrocarbons	TO 0511	AEC A108.0, EPA SW-846 3510	GC/FID
Total Petroleum Hydrocarbons	TO 0530	EPA 624 & SW-846 3810/3510, AEC A108.0	GC/MS & GC/FID
Toluene-d8 (BTEX)			GC/MS
o-Terphenyl (TEH)			GC/FID

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Method Summary

CLIENT NAME: BIOGENIE, DIVISION D'ENGLOBE CORP. **AGAT WORK ORDER: 12E638576**

PROJECT NO: Soil and Water Sample **ATTENTION TO: Brandon Mac Kay**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Total Arsenic	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP/MS
Total Cadmium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP/MS
Total Chromium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP/MS
Total Copper	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP/MS
Total Lead	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP/MS
Total Nickel	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP/MS
Total Zinc	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP/MS
Total Mercury	WATR 0200; INST 0160	SM 3030 E; SM 3112 B	CV/AA