

March 27, 2012

Mr. Ron Eaton
C/o Linn Larson
Larson Commercial – Industrial
1201 Pacific Avenue, Suite 1400
Tacoma, WA 98402

Re: Project Memo - Stockpile Sampling
2119 Mildred Street
Fircrest, Washington

Mr. Eaton:

EcoCon, Inc., (ECI), per your request, completed two separate stockpile soil sampling events at 2119 Mildred Street, Fircrest Washington (Subject Site). The sampling was conducted to assess the concentration of perchloroethylene (PCE) suspected of being present in the stockpiled soil.

The soil stockpile was generated during an excavation project in August 2012. Several environmental investigations completed by various companies identified PCE at concentrations exceeding the Model Toxic Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses.

Soil Sampling Methodology

Soil samples were collected as three-way composite from ten separate locations throughout the stockpile. Soil samples were collected by a properly trained environmental professional using industry standard sampling techniques. Soil was gathered from three locations within each sampling sphere at elevations ranging from 6 inches to 24 inches below the stockpile surface. The depth of the stockpile averaged 24 to 30 inches.

Soil Sampling & Analysis

Soil samples were collected on two separate events, August 23, 2012 and August 30, 2013. Sample results for the 2012 sampling event reported four of the ten sampling locations with concentrations of PCE exceeding the 0.05. Sample locations CSP1, CSP2, CSP3 and CSP4 were each reported containing PCE at 0.36 milligram per kilogram (mg/kg), 0.082 mg/kg, 0.10 mg/kg and 0.064 mg/kg respectively. The remaining six sample locations were reported below the CUL. Sample locations CSP5, CSP6 and CSP8 were reported containing PCE at 0.041 mg/kg, 0.042 mg/kg and 0.021 mg/kg respectively. The remaining sample locations, CSP7, CSP9 and CSP10 were each reported below the laboratory method reporting level of 0.02 mg/kg (Figure 2, Attached).

ECI returned to the Subject Site to sample the stockpile for a second time on August 30, 2013. One the four sampling locations, CSP1, CSP2, CSP3 and CSP4, previously identified as impacted exceeding 0.05 mg/kg were sampled. Sample results for the 2013 sampling event reported each of the four samples below the laboratory method reporting level of 0.02 mg/kg (Figure 2, Attached).

Summary

Soil sample results from the 2012 sampling event for sample locations CSP5 through CSP10 and from the 2013 sampling event, CSP1 through CSP4 have been reported below 0.05 mg/kg. Although the final disposition of the soil has not been determined, should offsite disposal be selected, acquiring a contained in determination through the Department of Ecology will be necessary due to the trace amounts of PCE remaining in the soil.

We appreciate the opportunity to provide environmental consulting services to you on this project. If you have any questions or comments regarding this submittal please do not hesitate to contact us at (253) 238-9270.

Respectively Submitted,



Stephen Spencer
Principal

Enclosures**Appendix A – Project Figures**

- Figure 1: Site Location Map
- Figure 2: Stockpile Sample Location Map

Appendix B – Project Tables

- Table 1: Soil Sample Analytical Results
- MTCA Method A Cleanup Levels

Appendix C – Project Chemical Analysis

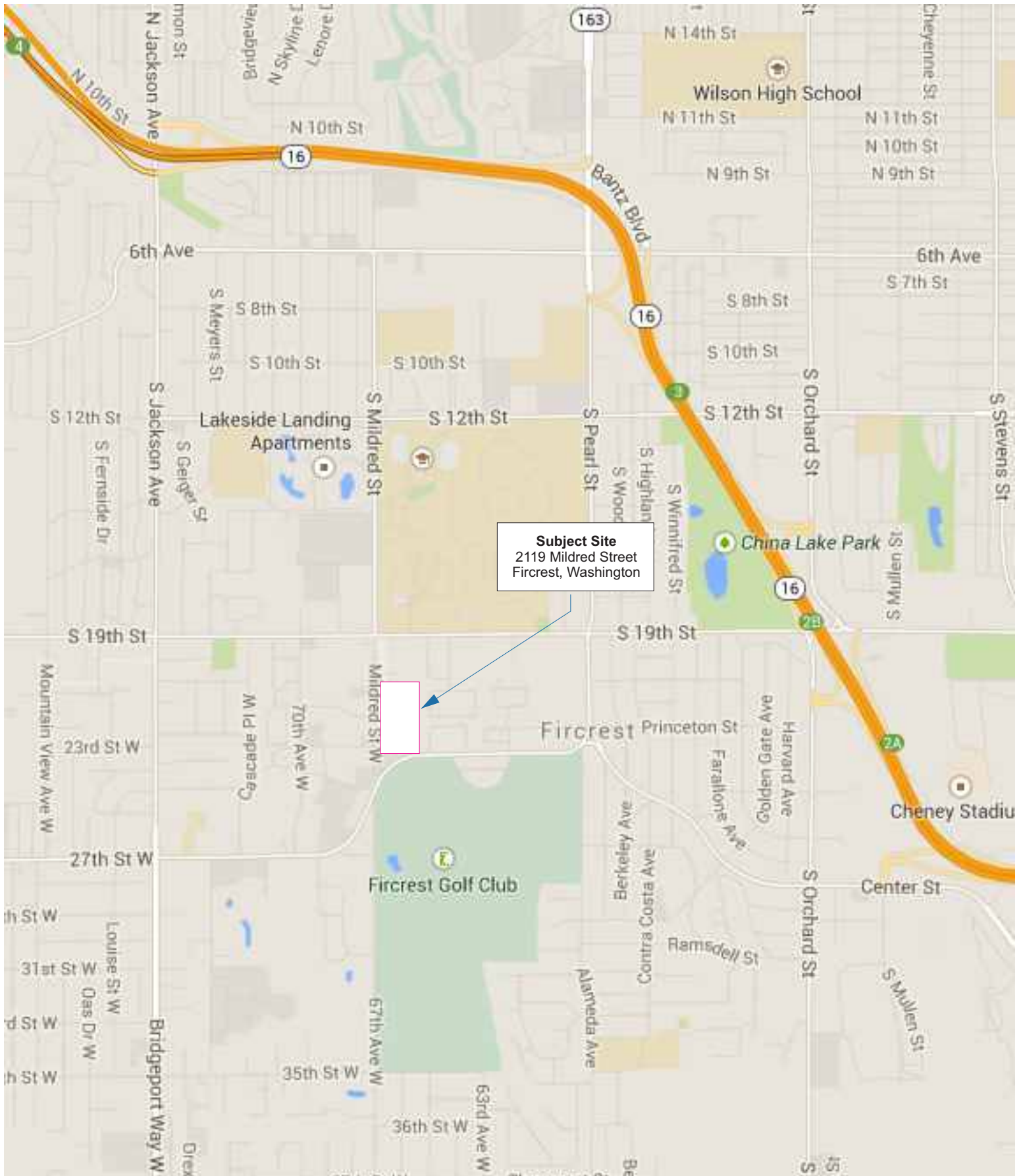
- Laboratory Analytical Results
- Sample Chain Of Custody

Attachment A

Project Figures

Figure 1: Site Location Map

Figure 2: Stockpile Sample Location Map



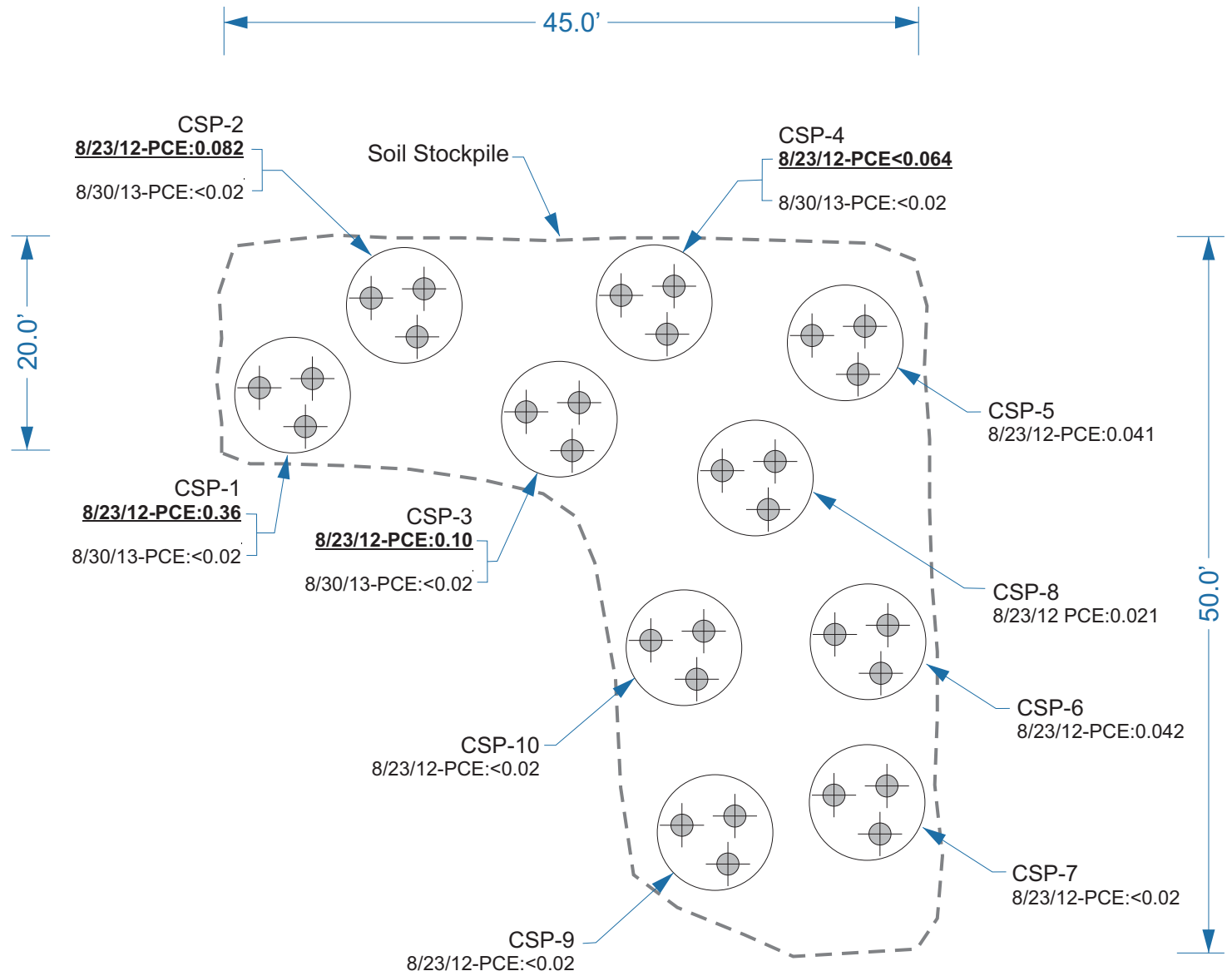
Subject Site
 2119 Mildred Street
 Fircrest, Washington

Site Location Map
 Soil Stockpile Sampling
 2119 Mildred Street
 Fircrest, Washington

Date: September 13, 2013
 Completed By: S.Spencer
 Reviewed By: S.Spencer
 Version: ECI-001
 Project No.: 0422-04

Figure No.:
01
 Sheet 01 of 02





<p>Not To Scale</p>	<p>3-Way Composite Sample Location</p>	<p>PCE: Perchloroethylene Reported in milligrams per kilogram (mg/kg)</p>	<p>Soil Sample Location Map Soil Stockpile Sampling 2119 Mildred Street Fircrest, Washington</p>		<p>Date: September 13, 2013</p>	<p>Figure No.:</p>
			<p>Completed By: S.Spencer</p> <p>Reviewed By: S.Spencer</p> <p>Version: ECI-001</p> <p>Project No.: 0422-04</p>	<p style="font-size: 2em; font-weight: bold;">02</p> <p>Sheet 01 of 02</p>		
			<p>www.ecoonline.com</p>			

Attachment B

Project Table

Table 1: Soil Sample Analytical Results
MTCA Method A Cleanup Levels

Sample Identification Number	Sample Date	Sample Depth	EPA 8260C					
			Vinyl Chloride (VC)	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis -1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)
			Milligrams per mg/kg					
CSP-1	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	0.360
	8/30/2013	10", 16", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02
CSP-2	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	0.082
	8/30/2013	10", 16", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02
CSP-3	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	0.100
	8/30/2013	10", 16", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02
CSP-4	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	0.064
	8/30/2013	10", 16", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02
CSP-5	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	0.041
CSP-6	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	0.035	<0.03	0.042
CSP-7	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	0.095	<0.03	<0.02
CSP-8	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	0.33	<0.03	0.021
CSP-9	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02
CSP-10	8/23/2012	6", 12", 24"	<0.02	<0.02	<0.02	0.024	<0.03	<0.02
Laboratory Minimum Method Reporting / Practical Quantitive Level (MRL)			0.02	0.02	0.02	0.02	0.03	0.02
Model Toxic Control Act - Method A Cleanup Levels For Groundwater			NA	NA	NA	NA	NA	0.05

Bold / Shaded: Analysis reported exceeding the MTCA Method A cleanup level
 Bold: Analysis reported exceeding laboratory method reporting levels
 MTCA 2007 Method A Cleanup Levels - Table 740-1
 Samples reported in milligram per killigram (mg/kg)
 bgs: below ground surface
 na: Not Applicable / Not Analysed

Attachment C

Project Chemical Analysis

Laboratory Analytical Results
Sample Chain Of Custody

Attachment C
Project Analytical Results

Libby Environmental, Inc.

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EATON PROJECT
 ECI
 Fircrest, Washington
 Libby Project # L120823-5
 Client Project # 0404-02

Volatil Organic Compounds by EPA Method 8260C in Soil

Sample Description	Method	CSP-1	CSP-2	CSP-3	CSP-4	CSP-5
	Blank					
Date Sampled	Reporting	N/A	8/23/12	8/23/12	8/23/12	8/23/12
Date Analyzed	Limits	8/29/12	8/29/12	8/29/12	8/29/12	8/29/12
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Dichlorodifluoromethane	0.06	nd	nd	nd	nd	nd
Chloromethane	0.06	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd
Bromomethane	0.09	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.05	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd
Methylene chloride	0.02	nd	nd	nd	0.029	nd
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.02	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	0.025
Chloroform	0.02	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd
Carbon tetrachloride	0.02	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd
Benzene	0.02	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.03	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd
Dibromomethane	0.04	nd	nd	nd	nd	nd
Bromodichloromethane	0.02	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd
Toluene	0.02	nd	nd	nd	nd	nd
Trans-1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	0.36	0.082	0.10	0.064
1,3-Dichloropropane	0.05	nd	nd	nd	nd	nd
Dibromochloromethane	0.03	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB) *	0.005	nd	nd	nd	nd	nd
Chlorobenzene	0.02	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.03	nd	nd	nd	nd	nd
Ethylbenzene	0.03	nd	nd	nd	nd	nd
Total Xylenes	0.03	nd	nd	nd	nd	nd
Styrene	0.02	nd	nd	nd	nd	nd

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EATON PROJECT
 ECI
 Fircrest, Washington
 Libby Project # L120823-5
 Client Project # 0404-02

Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description	Method Blank	CSP-1	CSP-2	CSP-3	CSP-4	CSP-5	
Date Sampled	Reporting	N/A	8/23/12	8/23/12	8/23/12	8/23/12	
Date Analyzed	Limits	8/29/12	8/29/12	8/29/12	8/29/12	8/29/12	
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Bromoform	0.02	nd	nd	nd	nd	nd	
Isopropylbenzene	0.08	nd	nd	nd	nd	nd	
1,2,3-Trichloropropane	0.02	nd	nd	nd	nd	nd	
Bromobenzene	0.03	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	nd	nd	nd	nd	nd	
n-Propylbenzene	0.02	nd	nd	nd	nd	nd	
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd	
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd	
1,3,5-Trimethylbenzene	0.02	nd	nd	nd	nd	nd	
tert-Butylbenzene	0.02	nd	nd	nd	nd	nd	
1,2,4-Trimethylbenzene	0.02	nd	nd	nd	nd	nd	
sec-Butylbenzene	0.02	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	0.02	nd	nd	nd	nd	nd	
Isopropyltoluene	0.02	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	0.02	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	0.02	nd	nd	nd	nd	nd	
n-Butylbenzene	0.02	nd	nd	nd	nd	nd	
1,2-Dibromo-3-Chloropropane	0.03	nd	nd	nd	nd	nd	
1,2,4-Trichlorobenzene	0.05	nd	nd	nd	nd	nd	
Hexachloro-1,3-butadiene	0.10	nd	nd	nd	nd	nd	
Naphthalenes	0.10	nd	nd	nd	1.11	nd	
1,2,3-Trichlorobenzene	1.0	nd	nd	nd	nd	nd	
Surrogate Recovery							
Dibromofluoromethane		124	99	97	102	111	96
1,2-Dichloroethane-d4		116	116	130	130	123	114
Toluene-d8		89	76	79	91	90	75
4-Bromofluorobenzene		85	85	94	94	84	88

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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EATON PROJECT
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 Fircrest, Washington
 Libby Project # L120823-5
 Client Project # 0404-02

Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description		CSP-6	CSP-7	CSP-7 Dup	CSP-8	CSP-9	CSP-10
Date Sampled	Reporting	8/23/12	8/23/12	8/23/12	8/23/12	8/23/12	8/23/12
Date Analyzed	Limits	8/29/12	8/29/12	8/29/12	8/29/12	8/29/12	8/29/12
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Dichlorodifluoromethane	0.06	nd	nd	nd	nd	nd	nd
Chloromethane	0.06	nd	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd	nd
Bromomethane	0.09	nd	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.05	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
Methylene chloride	0.02	nd	nd	nd	nd	nd	nd
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.02	nd	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	0.035	0.095	0.10	0.33	nd	0.024
Chloroform	0.02	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	0.02	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
Benzene	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.03	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd	nd
Dibromomethane	0.04	nd	nd	nd	nd	nd	nd
Bromodichloromethane	0.02	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
Toluene	0.02	nd	nd	nd	nd	nd	nd
Trans-1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	0.042	nd	nd	0.021	nd	nd
1,3-Dichloropropane	0.05	nd	nd	nd	nd	nd	nd
Dibromochloromethane	0.03	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB) *	0.005	nd	nd	nd	nd	nd	nd
Chlorobenzene	0.02	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.03	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.03	nd	nd	nd	nd	nd	nd
Total Xylenes	0.03	nd	nd	nd	nd	nd	nd
Styrene	0.02	nd	nd	nd	nd	nd	nd

Libby Environmental, Inc.

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EATON PROJECT
 ECI
 Fircrest, Washington
 Libby Project # L120823-5
 Client Project # 0404-02

Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description		CSP-6	CSP-7	CSP-7 Dup	CSP-8	CSP-9	CSP-10
Date Sampled	Reporting	8/23/12	8/23/12	8/23/12	8/23/12	8/23/12	8/23/12
Date Analyzed	Limits	8/29/12	8/29/12	8/29/12	8/29/12	8/29/12	8/29/12
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bromoform	0.02	nd	nd	nd	nd	nd	nd
Isopropylbenzene	0.08	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	0.02	nd	nd	nd	nd	nd	nd
Bromobenzene	0.03	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.02	nd	nd	nd	nd	nd	nd
n-Propylbenzene	0.02	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	0.02	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	0.02	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	0.02	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	0.02	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.02	nd	nd	nd	nd	nd	nd
Isopropyltoluene	0.02	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.02	nd	nd	nd	nd	nd	nd
n-Butylbenzene	0.02	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-Chloropropane	0.03	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	0.05	nd	nd	nd	nd	nd	nd
Hexachloro-1,3-butadiene	0.10	nd	nd	nd	nd	nd	nd
Naphthalenes	0.03	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	1.0	nd	nd	nd	nd	nd	nd
Surrogate Recovery							
Dibromofluoromethane		87	95	93	96	96	101
1,2-Dichloroethane-d4		88	119	107	115	127	128
Toluene-d8		74	75	75	91	78	78
4-Bromofluorobenzene		82	83	80	91	90	94

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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EATON PROJECT
 ECI
 Fircrest, Washington
 Libby Project # L120823-5
 Client Project # 0404-02

QA/QC Data - EPA 8260C Analyses

Sample Identification:			CSP-10				
Matrix Spike			Matrix Spike Duplicate			RPD	
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)	
1,1-Dichloroethene	0.50	0.46	92	0.50	0.38	76	19.0
Benzene	0.50	0.61	122	0.50	0.58	116	5.0
Toluene	0.50	0.46	92	0.50	0.44	88	4.4
Chlorobenzene	0.50	0.55	110	0.50	0.52	104	5.6
Trichloroethene (TCE)	0.50	0.59	118	0.50	0.54	108	8.8
Surrogate Recovery							
Dibromofluoromethane			87			94	
1,2-Dichloroethane-d4			87			121	
Toluene-d8			75			76	
4-Bromofluorobenzene			81			84	

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
1,1-Dichloroethene	0.50	0.57	114
Benzene	0.50	0.65	130
Toluene	0.50	0.51	102
Chlorobenzene	0.50	0.53	106
Trichloroethene (TCE)	0.50	0.57	114
Surrogate Recovery			
Dibromofluoromethane			121
1,2-Dichloroethane-d4			111
Toluene-d8			87
4-Bromofluorobenzene			87

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Ph: 360-352-2110
 Olympia, WA 98506 Fax: 360-352-4154

Date: 8-30-13 Page: 1 of 1

Client: ECL

Project Manager: Stephen Spencer

Address: PO Box 153

Project Name: EATON

City: Fox Island State: WA Zip: 98333

Location: 219 Midred City, State: Fircrest

Phone: 253-821-7059 Fax: 253-369-6228

Collector: K. Spencer Date of Collection: 8-30-13

Client Project # 0404-02

Email: S.Spencer@ecoonline.com



Sample Number	Depth	Time	Sample Type	Container Type	Analytical Parameters											Field Notes									
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals											
1 CSP-1b	SP	9:59	Soil	VOA		✓																			
2 CSP-2b	SP	10:12	Soil	VOA		✓																			
3 CSP-3b	SP	10:27	Soil	VOA		✓																			
4 CSP-4b	SP	10:26	Soil	VOA		✓																			
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt:	Remarks:	
<u>Kyle Spencer</u>	<u>8-30-13</u>	<u>[Signature]</u>	<u>8/30/13 3:00</u>			
Relinquished by:	Date / Time	Received by:	Date / Time	Good Condition?		<u>STD</u>
				Cold?		
Relinquished by:	Date / Time	Received by:	Date / Time	Seals Intact?		
				Total Number of Containers	TAT: 24HR 48HR 5-DAY	

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EATON PROJECT
 ECI
 Fircrest, Washington
 Libby Project # L130830-13
 Client Project # 0404-02

Volatile Organic Compounds by EPA Method 8260C in Soi

Sample Description	Method	CSP-1b	CSP-2b	CSP-3b	CSP-3b	CSP-4b
	Blank				Dup	
Date Sampled	Reporting	N/A	8/30/13	8/30/13	8/30/13	8/30/13
Date Analyzed	Limits	9/5/13	9/5/13	9/5/13	9/5/13	9/5/13
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Dichlorodifluoromethane	0.06	nd	nd	nd	nd	nd
Chloromethane	0.06	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd
Bromomethane	0.09	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.05	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd
Methylene chloride	0.02	nd	nd	nd	nd	nd
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.05	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.03	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd
Benzene	0.02	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.03	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd
Dibromomethane	0.04	nd	nd	nd	nd	nd
Bromodichloromethane	0.02	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd
Toluene	0.03	nd	nd	nd	nd	nd
Trans-1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	nd	nd	nd
1,3-Dichloropropane	0.05	nd	nd	nd	nd	nd
Dibromochloromethane	0.03	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB) *	0.005	nd	nd	nd	nd	nd
Chlorobenzene	0.02	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.03	nd	nd	nd	nd	nd
Ethylbenzene	0.03	nd	nd	nd	nd	nd
Total Xylenes	0.03	nd	nd	nd	nd	nd
Styrene	0.02	nd	nd	nd	nd	nd

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EATON PROJECT
 ECI
 Fircrest, Washington
 Libby Project # L130830-13
 Client Project # 0404-02

Volatile Organic Compounds by EPA Method 8260C in Soi

Sample Description	Method	CSP-1b	CSP-2b	CSP-3b	CSP-3b	CSP-4b
	Blank				Dup	
Date Sampled	Reporting	N/A	8/30/13	8/30/13	8/30/13	8/30/13
Date Analyzed	Limits	9/5/13	9/5/13	9/5/13	9/5/13	9/5/13
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bromoform	0.03	nd	nd	nd	nd	nd
Isopropylbenzene	0.08	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	0.03	nd	nd	nd	nd	nd
Bromobenzene	0.03	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.03	nd	nd	nd	nd	nd
n-Propylbenzene	0.02	nd	nd	nd	nd	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	0.02	nd	nd	nd	nd	nd
tert-Butylbenzene	0.02	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	0.02	nd	nd	nd	nd	nd
sec-Butylbenzene	0.02	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd	nd
Isopropyltoluene	0.02	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd	nd
n-Butylbenzene	0.02	nd	nd	nd	nd	nd
1,2-Dibromo-3-Chloropropane	0.05	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	0.05	nd	nd	nd	nd	nd
Hexachloro-1,3-butadiene	0.10	nd	nd	nd	nd	nd
Naphthalenes	0.05	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	0.1	nd	nd	nd	nd	nd
Surrogate Recovery						
Dibromofluoromethane		134	130	133	132	131
1,2-Dichloroethane-d4		106	90	98	97	105
Toluene-d8		109	110	119	114	114
4-Bromofluorobenzene		103	122	126	125	126

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcut

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QA/QC Data - EPA 8260C Analyses

Sample Identification: CSP-4b							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	
1,1-Dichloroethene	0.50	0.34	68	0.50	0.3	66	3.0
Benzene	0.50	0.59	118	0.50	0.6	126	6.6
Toluene	0.50	0.55	110	0.50	0.6	110	0.0
Chlorobenzene	0.50	0.66	132	0.50	0.6	124	6.3
Trichloroethene (TCE)	0.50	0.61	122	0.50	0.6	126	3.2
Surrogate Recovery							
Dibromofluoromethane			119			115	
1,2-Dichloroethane-d4			100			82	
Toluene-d8			122			112	
4-Bromofluorobenzene			121			118	

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
1,1-Dichloroethene	0.50	0.38	76
Benzene	0.50	0.65	130
Toluene	0.50	0.58	116
Chlorobenzene	0.50	0.65	130
Trichloroethene (TCE)	0.50	0.63	126
Surrogate Recovery			
Dibromofluoromethane			134
1,2-Dichloroethane-d4			101
Toluene-d8			109
4-Bromofluorobenzene			120

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Sherry Chilcut