

APPENDIX B



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

December 4, 2020

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201202-1

Client Project # 3238-001B

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	12/3/2020	111	nd	nd
B23-10	12/3/2020	86	nd	nd
B23-15	12/3/2020	120	nd	nd
B23-22	12/3/2020	108	nd	nd
B24-2.5	12/3/2020	114	nd	258
B24-15	12/3/2020	122	nd	nd
B24-25	12/3/2020	88	nd	nd
B25-2	12/3/2020	109	nd	nd
B25-10	12/3/2020	116	nd	nd
B25-20	12/3/2020	86	nd	nd
B26-4	12/3/2020	128	170	460
B26-12	12/3/2020	88	nd	nd
B26-17	12/3/2020	118	nd	nd
B27-2	12/3/2020	112	nd	nd
B27-9.5	12/3/2020	86	nd	1100
B27-17	12/3/2020	115	nd	1100
B28-3	12/3/2020	113	nd	260
B28-8	12/4/2020	91	78	1100
B28-15	12/4/2020	94	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kory Dixon and Jenny Anderson

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201202-1

Date Received 12/2/20 17:10

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) 0.3 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 10.2 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

December 9, 2020

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

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Olympia, WA 98506

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Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201202-1

Client Project # 3238-001B

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil w/Silica Gel Clean-up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	12/7/2020	119	nd	nd
B27-9.5	12/7/2020	127	nd	700
B27-17	12/7/2020	88	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kory Dixon

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201202-1B

Date Received 12/2/20 17:10

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) 0.3 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 10.2 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

December 14, 2020

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 12/3/20 Page: 1 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address: 2105 S L Street

Project Name: Ross Simmons

City: Tacoma State: Wa Zip: 98402

Location: 250 Industrial Way City, State: Longview Wa

Phone: Fax:

Collector: NRG Date of Collection: 12/3/20

Client Project # 3238-001B

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes							
					VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270		Semi Vol 8270						
B23-6	6'	8:45	Soil	2 4oz 2 VOA																			Hold 1 4oz B29-6
B23-16.5'	16.5'	9:20		1 4oz 2 VOA																			B29-16.5'
B23-25'	25'	9:15																					B29-25'
B24-2.5'	2.5'	10:05																					B30-2.5
B24-13.5'	13.5'	10:10																					B30-13.5'
B24-20'	20'	10:15																					B30-20
B25-2.5'	2.5'	11:20																					B31-2.5
B25-6.5'	6.5'	11:30		2 VOA 2 4oz																			Hold 1 4oz B31-6.5
B25-12.5'	12.5'	11:35		1 4oz 2 VOA																			B31-12.5
B25-19'	19'	11:40																					B31-19
B26-6'	6'	12:10																					B32-6'
B26-14'	14'	12:15																					B32-14
B26-23'	23'	12:20																					B32-23
B27-8.5'	8.5'	13:30																					B33-8.5
B27-11.5'	11.5'	13:15																					B33-11.5
B27-17'	17'	13:30																					B33-17
B27-25'	25'	13:25																					Hold B33-25

Relinquished by: <u>[Signature]</u>	Date / Time: <u>12/3/20 17:50</u>	Received by: <u>[Signature]</u>	Date / Time: <u>12/3/20 1750</u>	Sample Receipt		Remarks: <u>1-11-21 SAMPLE NAME CHANGE PER NATASHA VIA EMAIL.</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	Y N	
				Cooler Temp.	°C	
				Sample Temp.	°C	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Total Number of Containers		TAT: 24HR 48HR 5-DAY

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE Ph: 360-352-2110
 Olympia, WA 98506 Fax: 360-352-4154

Date: 12/13/20 Page: 2 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address: 2105 S C Street

Project Name: Ross Simmons

City: Tacoma State: Wa Zip: 98402

Location: 250 Industrial Way City, State: Longview Wa

Phone: _____ Fax: _____

Collector: NRG Date of Collection: 12/13/20

Client Project # 3238-001B

Email: _____

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes				
					VOC 8260 MFLA	PCE & Daughter Prod.	NWTPH-GX	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	PAH 8270	Semi Vol 8270					
B28-7	7	14:25	Soil	1 4oz 2V0A	X													B34-7		
B28-13.5	13.5	14:30	↙	↘	X													B34-13.5		
B28-18	18	14:35			X														B34-18	
B28-12	12	15:15			2 4oz 2V0A	X														B35-12
B28-17	17	15:20			1 4oz 2V0A	X														B35-17
B28-23	23	15:25				X														B35-23
B30-1.5	1.5	15:34				X														HOLD B36-1.5
B30-10	10	15:50				X														B36-10
B30-16	16	15:40			2 4oz 2V0A	X														HOLD 1 4oz B36-16
B30-23	23	15:55			1 4oz 2V0A	X														B36-23
11																				
12																				
13																				
14																				
15																				
16																				
17																				

Relinquished by: <u>[Signature]</u>	Date / Time: <u>12/13/20 17:50</u>	Received by: <u>[Signature]</u>	Date / Time: <u>12/13/20 1750</u>	Sample Receipt		Remarks: <u>1-13-21 SAMPLE NAME CHANGE PER NATASHA VIA EMAIL.</u>
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____	Good Condition?	Y N	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____	Cooler Temp.	°C	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____	Sample Temp.	°C	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____	Total Number of Containers		TAT: 24HR 48HR <u>5-DAY</u>

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
 Robinson Noble
 Longview, Washington
 Libby Project # L201203-4
 Client Project # 3238-001B

3322 South Bay Road NE
 Olympia, WA 98506
 Phone: (360) 352-2110
 FAX: (360) 352-4154
 Email: libbyenv@gmail.com

Volatile Organic Compounds by EPA Method 8260D in Soil

Sample Description	Method	B34-7	B34-13.5	B34-18	B35-12	B35-17
	Blank					
Date Sampled	N/A	12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020
Date Analyzed	PQL	12/6/2020	12/6/2020	12/6/2020	12/6/2020	12/6/2020
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Benzene	0.02	nd	nd	nd	nd	nd
Toluene	0.10	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd
Total Xylenes	0.15	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB) *	0.005	nd	nd	nd	nd	nd
Naphthalene	0.15	nd	nd	nd	nd	nd
1-Methylnaphthalene	0.40	nd	nd	nd	0.91	0.19
2-Methylnaphthalene	0.40	nd	nd	nd	nd	nd
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.05	nd	nd	nd	nd	nd
Surrogate Recovery						
Dibromofluoromethane	106	103	103	106	89	76
1,2-Dichloroethane-d4	106	97	109	110	107	91
Toluene-d8	101	111	105	111	88	99
4-Bromofluorobenzene	85	87	80	66	103	89

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

* ANALYZED BY SIM

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
 Robinson Noble
 Longview, Washington
 Libby Project # L201203-4
 Client Project # 3238-001B

3322 South Bay Road NE
 Olympia, WA 98506
 Phone: (360) 352-2110
 FAX: (360) 352-4154
 Email: libbyenv@gmail.com

Volatile Organic Compounds by EPA Method 8260D in Soil

Sample Description		B35-23	B36-1.5	B36-10	B36-16	B36-23	B36-23 Dup
Date Sampled		12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020
Date Analyzed	PQL	12/6/2020	12/6/2020	12/6/2020	12/6/2020	12/6/2020	12/6/2020
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Benzene	0.02	nd	nd	nd	nd	nd	nd
Toluene	0.10	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd
Total Xylenes	0.15	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB) *	0.005	nd	nd	nd	nd	nd	nd
Naphthalene	0.15	nd	0.22	nd	0.20	nd	nd
1-Methylnaphthalene	0.40	nd	1.2	0.45	2.6	nd	nd
2-Methylnaphthalene	0.40	nd	0.42	nd	0.39	nd	nd
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.05	nd	nd	nd	nd	nd	nd
Surrogate Recovery							
Dibromofluoromethane		103	103	66	68	67	72
1,2-Dichloroethane-d4		109	107	127	86	88	107
Toluene-d8		98	112	128	104	110	122
4-Bromofluorobenzene		91	92	100	99	94	98

"nd" Indicates not detected at listed detection limit.

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* ANALYZED BY SIM

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
 Robinson Noble
 Longview, Washington
 Libby Project # L201203-4
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3322 South Bay Road NE
 Olympia, WA 98506
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QA/QC for Volatile Organic Compounds by EPA Method 8260D in Soil

Matrix Spike Sample Identification: B36-23								
Date Analyzed: 12/6/2020								
	Spiked Conc. (mg/kg)	MS Response (mg/kg)	MSD Response (mg/kg)	MS Recovery (%)	MSD Recovery (%)	RPD (%)	Limits Recovery (%)	Data Flag
Benzene	0.25	0.22	0.17	88	68	25.8	65-135	
Toluene	0.25	0.27	0.18	109	72	41.1	65-135	R
Ethylbenzene	0.25	0.27	0.20	108	82	27.8	65-135	
Total Xylenes	0.75	0.86	0.57	115	76	40.6	65-135	R
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.25	0.31	0.22	124	90	31.9	65-135	
1,2-Dichloroethane (EDC)	0.25	0.29	0.19	116	78	39.7	65-135	R
1,2-Dibromoethane (EDB)	0.25	0.24	0.22	96	90	6.5	65-135	
Naphthalene	0.25	0.24	0.26	94	104	9.3	65-135	
1-Methylnaphthalene	0.50	0.39	0.62	78	124	45.3	65-135	R
2-Methylnaphthalene	0.50	0.37	0.62	75	123	48.6	65-135	R
Surrogate Recovery (%)				MS	MSD			
Dibromofluoromethane				89	98		65-135	
1,2-Dichloroethane-d4				109	100		65-135	
Toluene-d8				106	105		65-135	
4-Bromofluorobenzene				99	101		65-135	

ACCEPTABLE RPD IS 35%

“R” High relative percent difference observed.

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
Robinson Noble
Longview, Washington
Libby Project # L201203-4
Client Project # 3238-001B

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Laboratory Control Sample

Date Analyzed: 12/6/2020

	Spiked Conc. (mg/kg)	LCS Response (mg/kg)	LCS Recovery (%)	LCS Recovery Limits (%)	Data Flag
Benzene	0.25	0.25	99	80-120	
Toluene	0.25	0.20	80	80-120	
Ethylbenzene	0.25	0.26	103	80-120	
Total Xylenes	0.75	0.79	105	80-120	
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.25	0.25	99	80-120	
1,2-Dichloroethane (EDC)	0.25	0.27	108	80-120	
1,2-Dibromoethane (EDB)	0.25	0.24	97	80-120	
Naphthalene	0.25	0.20	80	80-120	
1-Methylnaphthalene	0.50	0.55	110	80-120	
2-Methylnaphthalene	0.50	0.52	104	80-120	
Surrogate Recovery					
Dibromofluoromethane			102	65-135	
1,2-Dichloroethane-d4			105	65-135	
Toluene-d8			80	65-135	
4-Bromofluorobenzene			97	65-135	

ANALYSES PERFORMED BY: Sherry Chilcutt

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ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201203-4

Client Project # 3238-001B

Analyses of Diesel, Oil & Heavy Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Heavy Oil (mg/kg)
Method Blank	12/7/2020	120	nd	nd	nd
B29-6	12/7/2020	int	816	290	nd
B29-6 Dup	12/7/2020	int	836	316	nd
B29-16.5'	12/7/2020	80	nd	nd	nd
B29-25'	12/7/2020	104	nd	nd	nd
B30-2.5	12/7/2020	88	nd	703	nd
B30-13.5'	12/7/2020	124	nd	nd	nd
B30-20	12/7/2020	106	nd	nd	nd
B31-2.5	12/7/2020	int	2300	nd	nd
B31-6.5	12/7/2020	int	1600	nd	nd
B31-12.5	12/7/2020	98	nd	nd	nd
B31-19	12/7/2020	87	nd	nd	nd
B32-6'	12/7/2020	114	208	nd	nd
B32-6' Dup	12/7/2020	111	183	nd	nd
B32-14	12/7/2020	103	nd	nd	nd
B32-23	12/7/2020	87	nd	nd	nd
B33-8.5	12/7/2020	int	5100	nd	nd
B33-11.5	12/7/2020	int	422	651	nd
B33-17	12/7/2020	76	99	nd	nd
B33-25	12/7/2020	122	nd	nd	nd
Practical Quantitation Limit			50	250	250

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kory Dixon and Jenny Anderson

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Client Project # 3238-001B

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Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Heavy Oil (mg/kg)
Method Blank	12/7/2020	119	nd	nd	nd
Method Blank	12/9/2020	102	nd	nd	nd
B34-7	12/7/2020	89	nd	nd	nd
B34-13.5	12/7/2020	120	nd	nd	nd
B34-18	12/7/2020	88	nd	nd	nd
B35-12	12/7/2020	int	250	nd	nd
B35-12 Dup	12/7/2020	int	300	nd	nd
B35-17	12/7/2020	82	nd	nd	nd
B35-23	12/7/2020	76	nd	nd	nd
B36-1.5	12/9/2020	int	nd	nd	27000
B36-10	12/7/2020	81	nd	nd	nd
B36-16	12/9/2020	int	nd	nd	3800
B36-23	12/7/2020	128	nd	nd	nd
Practical Quantitation Limit			50	250	250

"nd" Indicates not detected at the listed detection limits.

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Robinson Noble

Libby Project # L201203-4

Date Received 12/3/2020 17:50

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) -0.4 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 3.5 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

December 14, 2020

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 12/3/20 Page: 1 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address: 2105 S L Street

Project Name: Ross Simmons

City: Tacoma State: Wa Zip: 98402

Location: 250 Industrial Way City, State: Longview Wa

Phone: _____ Fax: _____

Collector: NRG Date of Collection: 12/3/20

Client Project # 3238-001B

Email: _____

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes								
					VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270		Semi Vol 8270							
B23-6	6'	8:45	Soil	2 4oz 2 VOA																			Hold 1 4oz B29-6	
B23-16.5'	16.5'	9:20		1 4oz 2 VOA																				B29-16.5'
B23-25'	25'	9:15																						B29-25'
B24-2.5	2.5'	10:05																						B30-2.5
B24-13.5'	13.5'	10:10																						B30-13.5'
B24-20	20'	10:15																						B30-20
B25-2.5	2.5	11:20																						B31-2.5
B25-6.5	6.5	11:30		2 VOA 2 4oz																				Hold 1 4oz B31-6.5
B25-12.5	12.5	11:35		1 4oz 2 VOA																				B31-12.5
B25-19	19	11:40																						B31-19
B26-6'	6	12:10																						B32-6'
B26-14	14	12:15																						B32-14
B26-23	23	12:20																						B32-23
B27-8.5	8.5	13:30																						B33-8.5
B27-11.5	11.5	13:15																						B33-11.5
B27-17	17	13:30																						B33-17
B27-25	25	13:25																						Hold B33-25

Relinquished by: <u>[Signature]</u>	Date / Time: <u>12/3/20 17:50</u>	Received by: <u>[Signature]</u>	Date / Time: <u>12/3/20 1750</u>	Sample Receipt		Remarks: <u>1-11-21 SAMPLE NAME CHANGE PER NATASHA VIA EMAIL.</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	Y N	
				Cooler Temp.	°C	
				Sample Temp.	°C	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Total Number of Containers		TAT: 24HR 48HR 5-DAY

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 12/3/20

Page: 2 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address: 2105 S C Street

Project Name: Ross Simmons

City: Tacoma State: Wa Zip: 98402

Location: 250 Industrial Way City, State: Longview Wa


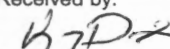
Phone: Fax:

Collector: NRG Date of Collection: 12/3/20

Client Project # 3238-001B

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes					
					VOC 8260 MFLA	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	PCB 8082 / Dx	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270						
1 B28-7	7	14:25	Soil	1 4oz 2V0A	X														B37-7		
2 B28-13.5	13.5	14:30	↙	↘	X														B37-13.5		
3 B28-18	18	14:35			X																B37-18
4 B28-12 B29-12	12	15:15			2 4oz 2V0A	X															B38-12
5 B28-17 B29-17	17	15:20			1 4oz 2V0A	X															B38-17
6 B28-23 B29-23	23	15:25				X															B38-23
7 B30-1.5	1.5	15:34				X															HOLD B39-1.5
8 B30-10	10	15:50				X															B39-10
9 B30-16	16	15:40				2 4oz 2V0A	X														HOLD 1 4oz B39-16
10 B30-23	23	15:55				1 4oz 2V0A	X														B39-23
11																					
12																					
13																					
14																					
15																					
16																					
17																					

Relinquished by: 	Date / Time: 12/3/20 17:50	Received by: 	Date / Time: 12/3/20 1750	Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers	Remarks:
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201203-4

Client Project # 3238-001B

Volatile Organic Compounds by EPA Method 8260D in Soil

Sample Description	Method	B37-7	B37-13.5	B37-18	B38-12	B38-17	
	Blank						
Date Sampled	N/A	12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020	
Date Analyzed	PQL	12/6/2020	12/6/2020	12/6/2020	12/6/2020	12/6/2020	
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Benzene	0.02	nd	nd	nd	nd	nd	
Toluene	0.10	nd	nd	nd	nd	nd	
Ethylbenzene	0.05	nd	nd	nd	nd	nd	
Total Xylenes	0.15	nd	nd	nd	nd	nd	
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	
1,2-Dibromoethane (EDB) *	0.005	nd	nd	nd	nd	nd	
Naphthalene	0.15	nd	nd	nd	nd	nd	
1-Methylnaphthalene	0.40	nd	nd	nd	0.91	0.19	
2-Methylnaphthalene	0.40	nd	nd	nd	nd	nd	
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.05	nd	nd	nd	nd	nd	
Surrogate Recovery							
Dibromofluoromethane	106	103	103	106	89	76	
1,2-Dichloroethane-d4	106	97	109	110	107	91	
Toluene-d8	101	111	105	111	88	99	
4-Bromofluorobenzene	85	87	80	66	103	89	

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

* ANALYZED BY SIM

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
 Robinson Noble
 Longview, Washington
 Libby Project # L201203-4
 Client Project # 3238-001B

3322 South Bay Road NE
 Olympia, WA 98506
 Phone: (360) 352-2110
 FAX: (360) 352-4154
 Email: libbyenv@gmail.com

Volatile Organic Compounds by EPA Method 8260D in Soil

Sample Description		B38-23	B39-1.5	B39-10	B39-16	B39-23	B39-23 Dup
Date Sampled		12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020
Date Analyzed	PQL	12/6/2020	12/6/2020	12/6/2020	12/6/2020	12/6/2020	12/6/2020
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Benzene	0.02	nd	nd	nd	nd	nd	nd
Toluene	0.10	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd
Total Xylenes	0.15	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB) *	0.005	nd	nd	nd	nd	nd	nd
Naphthalene	0.15	nd	0.22	nd	0.20	nd	nd
1-Methylnaphthalene	0.40	nd	1.2	0.45	2.6	nd	nd
2-Methylnaphthalene	0.40	nd	0.42	nd	0.39	nd	nd
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.05	nd	nd	nd	nd	nd	nd
Surrogate Recovery							
Dibromofluoromethane		103	103	66	68	67	72
1,2-Dichloroethane-d4		109	107	127	86	88	107
Toluene-d8		98	112	128	104	110	122
4-Bromofluorobenzene		91	92	100	99	94	98

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

* ANALYZED BY SIM

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
 Robinson Noble
 Longview, Washington
 Libby Project # L201203-4
 Client Project # 3238-001B

3322 South Bay Road NE
 Olympia, WA 98506
 Phone: (360) 352-2110
 FAX: (360) 352-4154
 Email: libbyenv@gmail.com

QA/QC for Volatile Organic Compounds by EPA Method 8260D in Soil

Matrix Spike Sample Identification: B30-23								
Date Analyzed: 12/6/2020								
	Spiked Conc. (mg/kg)	MS Response (mg/kg)	MSD Response (mg/kg)	MS Recovery (%)	MSD Recovery (%)	RPD (%)	Limits Recovery (%)	Data Flag
Benzene	0.25	0.22	0.17	88	68	25.8	65-135	
Toluene	0.25	0.27	0.18	109	72	41.1	65-135	R
Ethylbenzene	0.25	0.27	0.20	108	82	27.8	65-135	
Total Xylenes	0.75	0.86	0.57	115	76	40.6	65-135	R
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.25	0.31	0.22	124	90	31.9	65-135	
1,2-Dichloroethane (EDC)	0.25	0.29	0.19	116	78	39.7	65-135	R
1,2-Dibromoethane (EDB)	0.25	0.24	0.22	96	90	6.5	65-135	
Naphthalene	0.25	0.24	0.26	94	104	9.3	65-135	
1-Methylnaphthalene	0.50	0.39	0.62	78	124	45.3	65-135	R
2-Methylnaphthalene	0.50	0.37	0.62	75	123	48.6	65-135	R
Surrogate Recovery (%)				MS	MSD			
Dibromofluoromethane				89	98		65-135	
1,2-Dichloroethane-d4				109	100		65-135	
Toluene-d8				106	105		65-135	
4-Bromofluorobenzene				99	101		65-135	

ACCEPTABLE RPD IS 35%

“R” High relative percent difference observed.

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
Robinson Noble
Longview, Washington
Libby Project # L201203-4
Client Project # 3238-001B

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Laboratory Control Sample

Date Analyzed: 12/6/2020

	Spiked Conc. (mg/kg)	LCS Response (mg/kg)	LCS Recovery (%)	LCS Recovery Limits (%)	Data Flag
Benzene	0.25	0.25	99	80-120	
Toluene	0.25	0.20	80	80-120	
Ethylbenzene	0.25	0.26	103	80-120	
Total Xylenes	0.75	0.79	105	80-120	
Methyl <i>tert</i> - Butyl Ether (MTBE)	0.25	0.25	99	80-120	
1,2-Dichloroethane (EDC)	0.25	0.27	108	80-120	
1,2-Dibromoethane (EDB)	0.25	0.24	97	80-120	
Naphthalene	0.25	0.20	80	80-120	
1-Methylnaphthalene	0.50	0.55	110	80-120	
2-Methylnaphthalene	0.50	0.52	104	80-120	
Surrogate Recovery					
Dibromofluoromethane			102	65-135	
1,2-Dichloroethane-d4			105	65-135	
Toluene-d8			80	65-135	
4-Bromofluorobenzene			97	65-135	

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201203-4

Client Project # 3238-001B

Analyses of Diesel, Oil & Heavy Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Heavy Oil (mg/kg)
Method Blank	12/7/2020	120	nd	nd	nd
B29-6	12/7/2020	int	816	290	nd
B29-6 Dup	12/7/2020	int	836	316	nd
B29-16.5'	12/7/2020	80	nd	nd	nd
B29-25'	12/7/2020	104	nd	nd	nd
B30-2.5	12/7/2020	88	nd	703	nd
B30-13.5'	12/7/2020	124	nd	nd	nd
B30-20	12/7/2020	106	nd	nd	nd
B31-2.5	12/7/2020	int	2300	nd	nd
B31-6.5	12/7/2020	int	1600	nd	nd
B31-12.5	12/7/2020	98	nd	nd	nd
B31-19	12/7/2020	87	nd	nd	nd
B32-6'	12/7/2020	114	208	nd	nd
B32-6' Dup	12/7/2020	111	183	nd	nd
B32-14	12/7/2020	103	nd	nd	nd
B32-23	12/7/2020	87	nd	nd	nd
B33-8.5	12/7/2020	int	5100	nd	nd
B33-11.5	12/7/2020	int	422	651	nd
B33-17	12/7/2020	76	99	nd	nd
B33-25	12/7/2020	122	nd	nd	nd
Practical Quantitation Limit			50	250	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kory Dixon and Jenny Anderson

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201203-4

Client Project # 3238-001B

Analyses of Diesel, Oil & Heavy Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Heavy Oil (mg/kg)
Method Blank	12/7/2020	119	nd	nd	nd
Method Blank	12/9/2020	102	nd	nd	nd
B37-7	12/7/2020	89	nd	nd	nd
B37-13.5	12/7/2020	120	nd	nd	nd
B37-18	12/7/2020	88	nd	nd	nd
B38-12	12/7/2020	int	250	nd	nd
B38-12 Dup	12/7/2020	int	300	nd	nd
B38-17	12/7/2020	82	nd	nd	nd
B38-23	12/7/2020	76	nd	nd	nd
B39-1.5	12/9/2020	int	nd	nd	27000
B39-10	12/7/2020	81	nd	nd	nd
B39-16	12/9/2020	int	nd	nd	3800
B39-23	12/7/2020	128	nd	nd	nd
Practical Quantitation Limit			50	250	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kory Dixon and Jenny Anderson

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201203-4

Date Received 12/3/2020 17:50

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) -0.4 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 3.5 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

January 15, 2021

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 12/3/20 Page: 2 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address: 2105 S C Street

Project Name: Ross Simmons

City: Tacoma State: Wa Zip: 98402

Location: 250 Industrial Way City, State: Longview Wa

Phone: _____ Fax: _____

Collector: NRG Date of Collection: 12/3/20

Client Project # 3238-001B

Email: _____

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes					
					VOC 8260 MTLA	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	PAH 8270	Semi Vol 8270		EPH	NAPHTHALENES			
1 B28-7	7	14:25	Soil	1 4oz 2V0A	X																
2 B28-13.5	13.5	14:30	Soil	1 4oz 2V0A	X																
3 B28-18	18	14:35			X																
4 B28-12 B29-12	12	15:15			X																
5 B28-17 B29-17	17	15:20			X																
6 B28-23 B29-23	23	15:25			X																
7 B30-1.5	1.5	15:34			X																
8 B30-10	10	15:50			X																
9 B30-16	16	15:40			X	2 4oz 2V0A															
10 B30-23	23	15:55			X	1 4oz 2V0A															
11																					
12																					
13																					
14																					
15																					
16																					
17																					

Relinquished by: <u>[Signature]</u>	Date / Time: <u>12/3/20 17:50</u>	Received by: <u>[Signature]</u>	Date / Time: <u>12/3/20 1750</u>	Sample Receipt		Remarks: <u>Added 12-17-2020 Per Natasha. Standard TAT Via email.</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	Y N	
				Cooler Temp.	°C	
				Sample Temp.	°C	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Total Number of Containers		TAT: 24HR 48HR <u>5-DAY</u>

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201203-4B

Date Received 12/3/2020 17:50

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
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Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



3600 Fremont Ave. N.
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Libby Environmental
Kodey Eley
3322 South Bay Road NE
Olympia, WA 98506

RE: Ross Simmons
Work Order Number: 2012330

January 14, 2021

Attention Kodey Eley:

Fremont Analytical, Inc. received 4 sample(s) on 12/18/2020 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v2

www.fremontanalytical.com



Date: 01/15/2021

CLIENT: Libby Environmental
Project: Ross Simmons
Work Order: 2012330

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2012330-001	B33-8.5	12/03/2020 1:30 PM	12/18/2020 9:24 AM
2012330-002	B36-1.5	12/03/2020 3:34 PM	12/18/2020 9:24 AM
2012330-003	B36-16	12/03/2020 3:40 PM	12/18/2020 9:24 AM
2012330-004	B36-23	12/03/2020 3:55 PM	12/18/2020 9:24 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Libby Environmental
Project: Ross Simmons

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

1/14/2021: Revision 1 includes addition of naphthalene compounds for "B39-16"

1/15/2021: Revision 2 includes sample ID revisions requested by client.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Libby Environmental

Collection Date: 12/3/2020 1:30:00 PM

Project: Ross Simmons

Lab ID: 2012330-001

Matrix: Soil

Client Sample ID: B33-8.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 30629

Analyst: IH

Aliphatic Hydrocarbon (C8-C10)	ND	25.2	*	mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aliphatic Hydrocarbon (C10-C12)	174	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aliphatic Hydrocarbon (C12-C16)	1,070	126	D	mg/Kg-dry	10	1/8/2021 10:41:10 PM
Aliphatic Hydrocarbon (C16-C21)	1,090	126	D	mg/Kg-dry	10	1/8/2021 10:41:10 PM
Aliphatic Hydrocarbon (C21-C34)	440	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C8-C10)	ND	25.2	*	mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C10-C12)	33.8	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C12-C16)	350	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C16-C21)	462	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C21-C34)	321	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Surr: 1-Chlorooctadecane	145	60 - 140	S	%Rec	1	1/8/2021 5:25:08 PM
Surr: o-Terphenyl	188	60 - 140	S	%Rec	1	1/8/2021 5:25:08 PM

NOTES:

S - Outlying surrogate recovery attributed to TPH interference.

* - Flagged value is not within established control limits.

Sample Moisture (Percent Moisture)

Batch ID: R64194

Analyst: RL

Percent Moisture	20.5	0.500		wt%	1	12/22/2020 10:29:11 AM
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Client: Libby Environmental

Collection Date: 12/3/2020 3:34:00 PM

Project: Ross Simmons

Lab ID: 2012330-002

Matrix: Soil

Client Sample ID: B36-1.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 30821

Analyst: SB

Benz(a)anthracene	7,410	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Chrysene	12,500	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Benzo(b)fluoranthene	ND	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Benzo(k)fluoranthene	ND	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Benzo(a)pyrene	2,640	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Indeno(1,2,3-cd)pyrene	580	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Dibenz(a,h)anthracene	ND	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Surr: 2-Fluorobiphenyl	88.3	11.4 - 125	D	%Rec	10	12/28/2020 7:10:59 PM
Surr: Terphenyl-d14 (surr)	202	29.5 - 155	DS	%Rec	10	12/28/2020 7:10:59 PM

NOTES:

Diluted due to matrix.

S - Outlying surrogate recovery(ies) observed.

Sample Moisture (Percent Moisture)

Batch ID: R64194

Analyst: RL

Percent Moisture	14.9	0.500		wt%	1	12/22/2020 10:29:11 AM
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Client: Libby Environmental

Collection Date: 12/3/2020 3:40:00 PM

Project: Ross Simmons

Lab ID: 2012330-003

Matrix: Soil

Client Sample ID: B36-16

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 30629

Analyst: IH

Aliphatic Hydrocarbon (C8-C10)	ND	28.1	*	mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aliphatic Hydrocarbon (C10-C12)	55.1	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aliphatic Hydrocarbon (C12-C16)	193	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aliphatic Hydrocarbon (C16-C21)	198	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aliphatic Hydrocarbon (C21-C34)	843	281	D	mg/Kg-dry	20	1/11/2021 6:14:25 PM
Aromatic Hydrocarbon (C8-C10)	ND	28.1	*	mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aromatic Hydrocarbon (C10-C12)	22.1	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aromatic Hydrocarbon (C12-C16)	149	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aromatic Hydrocarbon (C16-C21)	373	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aromatic Hydrocarbon (C21-C34)	1,180	281	D	mg/Kg-dry	20	1/11/2021 5:21:34 PM
Surr: 1-Chlorooctadecane	74.8	60 - 140	D	%Rec	20	1/11/2021 6:14:25 PM
Surr: o-Terphenyl	72.3	60 - 140		%Rec	1	1/8/2021 6:17:49 PM

NOTES:

* - Flagged value is not within established control limits.

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 30821

Analyst: SB

Naphthalene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
2-Methylnaphthalene	3,940	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
1-Methylnaphthalene	4,320	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Benz(a)anthracene	641	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Chrysene	1,270	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Benzo(b)fluoranthene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Benzo(k)fluoranthene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Benzo(a)pyrene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Indeno(1,2,3-cd)pyrene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Dibenz(a,h)anthracene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Surr: 2-Fluorobiphenyl	53.6	11.4 - 125	D	%Rec	10	12/28/2020 7:32:01 PM
Surr: Terphenyl-d14 (surr)	133	29.5 - 155	D	%Rec	10	12/28/2020 7:32:01 PM

NOTES:

Diluted due to matrix.

Sample Moisture (Percent Moisture)

Batch ID: R64194

Analyst: RL

Percent Moisture	29.6	0.500		wt%	1	12/22/2020 10:29:11 AM
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Client: Libby Environmental

Collection Date: 12/3/2020 3:55:00 PM

Project: Ross Simmons

Lab ID: 2012330-004

Matrix: Soil

Client Sample ID: B36-23

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 30821

Analyst: SB

Benz(a)anthracene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Chrysene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Benzo(b)fluoranthene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Benzo(k)fluoranthene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Benzo(a)pyrene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Indeno(1,2,3-cd)pyrene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Dibenz(a,h)anthracene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Surr: 2-Fluorobiphenyl	181	11.4 - 125	S	%Rec	1	12/28/2020 3:39:41 PM
Surr: Terphenyl-d14 (surr)	219	29.5 - 155	S	%Rec	1	12/28/2020 3:39:41 PM

NOTES:

S - Outlying surrogate recovery(ies) observed (high bias). Sample is non-detect; no further action required.

Sample Moisture (Percent Moisture)

Batch ID: R64194

Analyst: RL

Percent Moisture	27.0	0.500		wt%	1	12/22/2020 10:29:11 AM
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Work Order: 2012330
CLIENT: Libby Environmental
Project: Ross Simmons

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID: MB-30629	SampType: MBLK	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64537							
Client ID: MBLKS	Batch ID: 30629		Analysis Date: 1/7/2021	SeqNo: 1297922							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	20.0									*
Aliphatic Hydrocarbon (C10-C12)	ND	10.0									
Aliphatic Hydrocarbon (C12-C16)	ND	10.0									
Aliphatic Hydrocarbon (C16-C21)	ND	10.0									
Aliphatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: 1-Chlorooctadecane	80.8		100.0		80.8	60	140				

NOTES:
 * - Flagged value is not within established control limits.

Sample ID: MB-30629	SampType: MBLK	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64536							
Client ID: MBLKS	Batch ID: 30629		Analysis Date: 1/7/2021	SeqNo: 1298530							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	ND	20.0									*
Aromatic Hydrocarbon (C10-C12)	ND	10.0									
Aromatic Hydrocarbon (C12-C16)	ND	10.0									
Aromatic Hydrocarbon (C16-C21)	ND	10.0									
Aromatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: o-Terphenyl	86.7		100.0		86.7	60	140				

NOTES:
 * - Flagged value is not within established control limits.

Sample ID: LCS-30629	SampType: LCS	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64537							
Client ID: LCSS	Batch ID: 30629		Analysis Date: 1/7/2021	SeqNo: 1297923							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	123	20.0	250.0	0	49.1	70	130				S
Aliphatic Hydrocarbon (C10-C12)	90.4	10.0	125.0	0	72.3	70	130				
Aliphatic Hydrocarbon (C12-C16)	102	10.0	125.0	0	81.6	70	130				
Aliphatic Hydrocarbon (C16-C21)	103	10.0	125.0	0	82.2	70	130				
Aliphatic Hydrocarbon (C21-C34)	124	10.0	125.0	0	99.5	70	130				

Work Order: 2012330
 CLIENT: Libby Environmental
 Project: Ross Simmons

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID: LCS-30629	SampType: LCS	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64537							
Client ID: LCSS	Batch ID: 30629	Analysis Date: 1/7/2021	SeqNo: 1297923								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Chlorooctadecane 77.8 100.0 77.8 60 140

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Sample ID: LCS-30629	SampType: LCS	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64536							
Client ID: LCSS	Batch ID: 30629	Analysis Date: 1/7/2021	SeqNo: 1298531								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aromatic Hydrocarbon (C8-C10)	136	20.0	250.0	0	54.4	70	130				S
Aromatic Hydrocarbon (C10-C12)	98.8	10.0	125.0	0	79.0	70	130				
Aromatic Hydrocarbon (C12-C16)	110	10.0	125.0	0	87.7	70	130				
Aromatic Hydrocarbon (C16-C21)	119	10.0	125.0	0	95.0	70	130				
Aromatic Hydrocarbon (C21-C34)	118	10.0	125.0	0	94.6	70	130				
Surr: o-Terphenyl	93.3		100.0		93.3	60	140				

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Work Order: 2012330
CLIENT: Libby Environmental
Project: Ross Simmons

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-30821	SampType: MBLK	Units: µg/Kg	Prep Date: 12/23/2020	RunNo: 64313							
Client ID: MBLKS	Batch ID: 30821		Analysis Date: 12/28/2020	SeqNo: 1292401							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	40.0									
2-Methylnaphthalene	ND	40.0									
1-Methylnaphthalene	ND	40.0									
Benz(a)anthracene	ND	40.0									
Chrysene	ND	40.0									
Benzo(b)fluoranthene	ND	40.0									
Benzo(k)fluoranthene	ND	40.0									
Benzo(a)pyrene	ND	40.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	40.0									
Surr: 2-Fluorobiphenyl	677		500.0		135	11.4	125				S
Surr: Terphenyl-d14 (surr)	812		500.0		162	29.5	155				S

NOTES:

S - Outlying surrogate recovery(ies) observed.

Sample ID: LCS-30821	SampType: LCS	Units: µg/Kg	Prep Date: 12/23/2020	RunNo: 64313							
Client ID: LCSS	Batch ID: 30821		Analysis Date: 12/28/2020	SeqNo: 1292402							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	1,020	40.0	1,000	0	102	52.1	121				
2-Methylnaphthalene	1,020	40.0	1,000	0	102	56.3	118				
1-Methylnaphthalene	1,040	40.0	1,000	0	104	57.9	120				
Benz(a)anthracene	983	40.0	1,000	0	98.3	58.7	128				
Chrysene	1,100	40.0	1,000	0	110	50.5	136				
Benzo(b)fluoranthene	877	40.0	1,000	0	87.7	49.8	126				
Benzo(k)fluoranthene	1,240	40.0	1,000	0	124	51.3	131				
Benzo(a)pyrene	960	40.0	1,000	0	96.0	52.9	124				
Indeno(1,2,3-cd)pyrene	940	40.0	1,000	0	94.0	49.6	119				
Dibenz(a,h)anthracene	949	40.0	1,000	0	94.9	48.1	123				
Surr: 2-Fluorobiphenyl	643		500.0		129	11.4	125				S
Surr: Terphenyl-d14 (surr)	760		500.0		152	29.5	155				

Work Order: 2012330
CLIENT: Libby Environmental
Project: Ross Simmons

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-30821	SampType: LCS	Units: µg/Kg	Prep Date: 12/23/2020	RunNo: 64313							
Client ID: LCSS	Batch ID: 30821		Analysis Date: 12/28/2020	SeqNo: 1292402							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Outlying surrogate recovery(ies) observed.

Sample ID: 2012282-002AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 12/23/2020	RunNo: 64313							
Client ID: BATCH	Batch ID: 30821		Analysis Date: 12/28/2020	SeqNo: 1292595							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	958	43.6	1,090	0	87.9	35	115				
2-Methylnaphthalene	991	43.6	1,090	0	90.9	37.2	115				
1-Methylnaphthalene	986	43.6	1,090	0	90.5	40.8	114				
Benz(a)anthracene	1,220	43.6	1,090	0	112	45.7	122				
Chrysene	1,000	43.6	1,090	0	91.7	34.9	124				
Benzo(b)fluoranthene	1,030	43.6	1,090	0	94.8	36.5	120				
Benzo(k)fluoranthene	1,100	43.6	1,090	0	101	30.4	123				
Benzo(a)pyrene	1,100	43.6	1,090	0	101	38.9	118				
Indeno(1,2,3-cd)pyrene	882	43.6	1,090	0	80.9	27.2	117				
Dibenz(a,h)anthracene	896	43.6	1,090	0	82.2	27.4	118				
Surr: 2-Fluorobiphenyl	609		545.0		112	11.4	125				
Surr: Terphenyl-d14 (surr)	775		545.0		142	29.5	155				

Sample ID: 2012282-002AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 12/23/2020	RunNo: 64313							
Client ID: BATCH	Batch ID: 30821		Analysis Date: 12/28/2020	SeqNo: 1292596							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,070	45.4	1,134	0	94.7	35	115	958.5	11.4	30	
2-Methylnaphthalene	1,100	45.4	1,134	0	97.1	37.2	115	991.1	10.5	30	
1-Methylnaphthalene	1,090	45.4	1,134	0	96.5	40.8	114	986.5	10.4	30	
Benz(a)anthracene	1,330	45.4	1,134	0	118	45.7	122	1,216	9.24	30	
Chrysene	1,120	45.4	1,134	0	98.7	34.9	124	999.9	11.3	30	
Benzo(b)fluoranthene	1,030	45.4	1,134	0	91.0	36.5	120	1,033	0.0795	30	

Work Order: 2012330
CLIENT: Libby Environmental
Project: Ross Simmons

QC SUMMARY REPORT
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2012282-002AMSD		SampType: MSD		Units: µg/Kg-dry		Prep Date: 12/23/2020		RunNo: 64313			
Client ID: BATCH		Batch ID: 30821				Analysis Date: 12/28/2020		SeqNo: 1292596			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	1,330	45.4	1,134	0	117	30.4	123	1,104	18.3	30	
Benzo(a)pyrene	1,210	45.4	1,134	0	107	38.9	118	1,098	10.1	30	
Indeno(1,2,3-cd)pyrene	988	45.4	1,134	0	87.1	27.2	117	882.4	11.3	30	
Dibenz(a,h)anthracene	987	45.4	1,134	0	87.0	27.4	118	896.4	9.63	30	
Surr: 2-Fluorobiphenyl	672		567.1		119	11.4	125		0		
Surr: Terphenyl-d14 (surr)	853		567.1		150	29.5	155		0		

Client Name: LIBBY	Work Order Number: 2012330
Logged by: Clare Griggs	Date Received: 12/18/2020 9:24:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Sample ID revision requested by K.I. 1/12/21

Item Information

Item #	Temp °C
Sample	1.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE Olympia, WA 98506
 Ph: 360-352-2110 Fax: 360-352-4154

2012330

Date: 12-17-2020 Page: 1 of 1

Client: Libby Environmental, Inc.

Project Manager: Kodey Eley

Address: (see above)

Project Name: Ross Simmons

City: State: Zip:

Location: City, State: Longview, WA

Phone: Fax:

Collector: NG Date of Collection: 12-3-2020

Client Project # L201203-4B

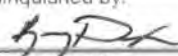
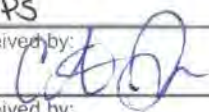
Email: libbyenv@gmail.com

Page 16 of 17

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes				
					VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	cPAH 8270	PAH 8270		Semi Vol 8270	EPH		
1 B27-8.5 B33-8.5	8.5	13:30	soil	Vial/Jar															X	Exact weights + solvent amount on vials.
2 B30-1.5 B39-1.5	1.5	15:34	soil															X		
3 B30-16 B39-16	16	15:40	soil															X*	X	
4 B30-23 B39-23	23	15:55	soil															X		
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				

Sample ID edits per S.C. 1/12/2021 -BB

* - Add naphthalene, 1- and 2-methylnaphthalene per S.C. 1/13/2021 -BB

Relinquished by: 	Date / Time: 12/17/20 1630	Received by: UPS	Date / Time:	Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers	Remarks: Standard TAT cPAH = 5day EPH = 10 day TAT: 24HR 48HR 5-DAY
Relinquished by: UPS	Date / Time:	Received by: 	Date / Time: 12/18/20 @ 0924		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE Olympia, WA 98506
 Ph: 360-352-2110 Fax: 360-352-4154

2012330

Date: 12-17-2020 Page: 1 of 1

Client: Libby Environmental, Inc.

Project Manager: Kodey Eley

Address: (see above)

Project Name: Ross Simmons

City: State: Zip:

Location: City, State: Longview, WA

Phone: Fax:


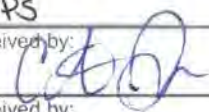
Collector: NG Date of Collection: 12-3-2020

Client Project # L201203-4B

Email: libbyenv@gmail.com

Page 17 of 17

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes				
					VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	cPAH 8270	PAH 8270		Semi Vol 8270	EPH		
1 B27-8.5 B33-8.5	8.5	13:30	soil	Vial/Jar															X	Exact weights + solvent amount on vials.
2 B30-1.5 B36-1.5	1.5	15:34	soil															X		
3 B30-16 B36-16	16	15:40	soil															X*	X	Sample ID edits per KI 1/15/21- gac
4 B30-23 B36-23	23	15:55	soil															X		Sample ID edits per S.C. 1/12/2021 -BB
5																				
6																				
7																				* - Add naphthalene, 1- and 2-methylnaphthalene per S.C. 1/13/2021 -BB
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				

Relinquished by: 	Date / Time: 12/17/20 1630	Received by: UPS	Date / Time:	Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers	Remarks: Standard TAT cPAH = 5day EPH = 10 day TAT: 24HR 48HR 5-DAY
Relinquished by: UPS	Date / Time:	Received by: 	Date / Time: 12/18/20 @ 0924		
Relinquished by:	Date / Time:	Received by:	Date / Time:		



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

January 12, 2021

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201203-4B

Date Received 12/3/2020 17:50

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) -0.4 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 3.5 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



Libby Environmental
Kodey Eley
3322 South Bay Road NE
Olympia, WA 98506

RE: Ross Simmons
Work Order Number: 2012330

January 12, 2021

Attention Kodey Eley:

Fremont Analytical, Inc. received 4 sample(s) on 12/18/2020 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



Date: 01/12/2021

CLIENT: Libby Environmental
Project: Ross Simmons
Work Order: 2012330

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2012330-001	B33-8.5	12/03/2020 1:30 PM	12/18/2020 9:24 AM
2012330-002	B39-1.5	12/03/2020 3:34 PM	12/18/2020 9:24 AM
2012330-003	B39-16	12/03/2020 3:40 PM	12/18/2020 9:24 AM
2012330-004	B39-23	12/03/2020 3:55 PM	12/18/2020 9:24 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Libby Environmental

Project: Ross Simmons

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Libby Environmental
Project: Ross Simmons
Lab ID: 2012330-001
Client Sample ID: B33-8.5

Collection Date: 12/3/2020 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 30629 Analyst: IH

Aliphatic Hydrocarbon (C8-C10)	ND	25.2	*	mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aliphatic Hydrocarbon (C10-C12)	174	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aliphatic Hydrocarbon (C12-C16)	1,070	126	D	mg/Kg-dry	10	1/8/2021 10:41:10 PM
Aliphatic Hydrocarbon (C16-C21)	1,090	126	D	mg/Kg-dry	10	1/8/2021 10:41:10 PM
Aliphatic Hydrocarbon (C21-C34)	440	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C8-C10)	ND	25.2	*	mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C10-C12)	33.8	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C12-C16)	350	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C16-C21)	462	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Aromatic Hydrocarbon (C21-C34)	321	12.6		mg/Kg-dry	1	1/8/2021 5:25:08 PM
Surr: 1-Chlorooctadecane	145	60 - 140	S	%Rec	1	1/8/2021 5:25:08 PM
Surr: o-Terphenyl	188	60 - 140	S	%Rec	1	1/8/2021 5:25:08 PM

NOTES:

S - Outlying surrogate recovery attributed to TPH interference.
* - Flagged value is not within established control limits.

Sample Moisture (Percent Moisture)

Batch ID: R64194 Analyst: RL

Percent Moisture	20.5	0.500		wt%	1	12/22/2020 10:29:11 AM
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Client: Libby Environmental

Collection Date: 12/3/2020 3:34:00 PM

Project: Ross Simmons

Lab ID: 2012330-002

Matrix: Soil

Client Sample ID: B39-1.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 30821

Analyst: SB

Benz(a)anthracene	7,410	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Chrysene	12,500	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Benzo(b)fluoranthene	ND	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Benzo(k)fluoranthene	ND	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Benzo(a)pyrene	2,640	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Indeno(1,2,3-cd)pyrene	580	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Dibenz(a,h)anthracene	ND	465	D	µg/Kg-dry	10	12/28/2020 7:10:59 PM
Surr: 2-Fluorobiphenyl	88.3	11.4 - 125	D	%Rec	10	12/28/2020 7:10:59 PM
Surr: Terphenyl-d14 (surr)	202	29.5 - 155	DS	%Rec	10	12/28/2020 7:10:59 PM

NOTES:

Diluted due to matrix.

S - Outlying surrogate recovery(ies) observed.

Sample Moisture (Percent Moisture)

Batch ID: R64194

Analyst: RL

Percent Moisture	14.9	0.500		wt%	1	12/22/2020 10:29:11 AM
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Client: Libby Environmental
Project: Ross Simmons
Lab ID: 2012330-003
Client Sample ID: B39-16

Collection Date: 12/3/2020 3:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 30629 Analyst: IH

Aliphatic Hydrocarbon (C8-C10)	ND	28.1	*	mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aliphatic Hydrocarbon (C10-C12)	55.1	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aliphatic Hydrocarbon (C12-C16)	193	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aliphatic Hydrocarbon (C16-C21)	198	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aliphatic Hydrocarbon (C21-C34)	843	281	D	mg/Kg-dry	20	1/11/2021 6:14:25 PM
Aromatic Hydrocarbon (C8-C10)	ND	28.1	*	mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aromatic Hydrocarbon (C10-C12)	22.1	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aromatic Hydrocarbon (C12-C16)	149	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aromatic Hydrocarbon (C16-C21)	373	14.1		mg/Kg-dry	1	1/8/2021 6:17:49 PM
Aromatic Hydrocarbon (C21-C34)	1,180	281	D	mg/Kg-dry	20	1/11/2021 5:21:34 PM
Surr: 1-Chlorooctadecane	74.8	60 - 140	D	%Rec	20	1/11/2021 6:14:25 PM
Surr: o-Terphenyl	72.3	60 - 140		%Rec	1	1/8/2021 6:17:49 PM

NOTES:

* - Flagged value is not within established control limits.

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 30821 Analyst: SB

Benz(a)anthracene	641	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Chrysene	1,270	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Benzo(b)fluoranthene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Benzo(k)fluoranthene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Benzo(a)pyrene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Indeno(1,2,3-cd)pyrene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Dibenz(a,h)anthracene	ND	563	D	µg/Kg-dry	10	12/28/2020 7:32:01 PM
Surr: 2-Fluorobiphenyl	53.6	11.4 - 125	D	%Rec	10	12/28/2020 7:32:01 PM
Surr: Terphenyl-d14 (surr)	133	29.5 - 155	D	%Rec	10	12/28/2020 7:32:01 PM

NOTES:

Diluted due to matrix.

Sample Moisture (Percent Moisture)

Batch ID: R64194 Analyst: RL

Percent Moisture	29.6	0.500		wt%	1	12/22/2020 10:29:11 AM
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Client: Libby Environmental

Collection Date: 12/3/2020 3:55:00 PM

Project: Ross Simmons

Lab ID: 2012330-004

Matrix: Soil

Client Sample ID: B39-23

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 30821

Analyst: SB

Benz(a)anthracene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Chrysene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Benzo(b)fluoranthene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Benzo(k)fluoranthene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Benzo(a)pyrene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Indeno(1,2,3-cd)pyrene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Dibenz(a,h)anthracene	ND	54.8		µg/Kg-dry	1	12/28/2020 3:39:41 PM
Surr: 2-Fluorobiphenyl	181	11.4 - 125	S	%Rec	1	12/28/2020 3:39:41 PM
Surr: Terphenyl-d14 (surr)	219	29.5 - 155	S	%Rec	1	12/28/2020 3:39:41 PM

NOTES:

S - Outlying surrogate recovery(ies) observed (high bias). Sample is non-detect; no further action required.

Sample Moisture (Percent Moisture)

Batch ID: R64194

Analyst: RL

Percent Moisture	27.0	0.500		wt%	1	12/22/2020 10:29:11 AM
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Work Order: 2012330
 CLIENT: Libby Environmental
 Project: Ross Simmons

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID: MB-30629	SampType: MBLK	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64537							
Client ID: MBLKS	Batch ID: 30629		Analysis Date: 1/7/2021	SeqNo: 1297922							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	20.0									*
Aliphatic Hydrocarbon (C10-C12)	ND	10.0									
Aliphatic Hydrocarbon (C12-C16)	ND	10.0									
Aliphatic Hydrocarbon (C16-C21)	ND	10.0									
Aliphatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: 1-Chlorooctadecane	80.8		100.0		80.8	60	140				

NOTES:
 * - Flagged value is not within established control limits.

Sample ID: MB-30629	SampType: MBLK	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64536							
Client ID: MBLKS	Batch ID: 30629		Analysis Date: 1/7/2021	SeqNo: 1298530							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	ND	20.0									*
Aromatic Hydrocarbon (C10-C12)	ND	10.0									
Aromatic Hydrocarbon (C12-C16)	ND	10.0									
Aromatic Hydrocarbon (C16-C21)	ND	10.0									
Aromatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: o-Terphenyl	86.7		100.0		86.7	60	140				

NOTES:
 * - Flagged value is not within established control limits.

Sample ID: LCS-30629	SampType: LCS	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64537							
Client ID: LCSS	Batch ID: 30629		Analysis Date: 1/7/2021	SeqNo: 1297923							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	123	20.0	250.0	0	49.1	70	130				S
Aliphatic Hydrocarbon (C10-C12)	90.4	10.0	125.0	0	72.3	70	130				
Aliphatic Hydrocarbon (C12-C16)	102	10.0	125.0	0	81.6	70	130				
Aliphatic Hydrocarbon (C16-C21)	103	10.0	125.0	0	82.2	70	130				
Aliphatic Hydrocarbon (C21-C34)	124	10.0	125.0	0	99.5	70	130				

Work Order: 2012330
 CLIENT: Libby Environmental
 Project: Ross Simmons

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID: LCS-30629	SampType: LCS	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64537							
Client ID: LCSS	Batch ID: 30629	Analysis Date: 1/7/2021	SeqNo: 1297923								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Chlorooctadecane 77.8 100.0 77.8 60 140

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Sample ID: LCS-30629	SampType: LCS	Units: mg/Kg	Prep Date: 12/4/2020	RunNo: 64536							
Client ID: LCSS	Batch ID: 30629	Analysis Date: 1/7/2021	SeqNo: 1298531								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aromatic Hydrocarbon (C8-C10)	136	20.0	250.0	0	54.4	70	130				S
Aromatic Hydrocarbon (C10-C12)	98.8	10.0	125.0	0	79.0	70	130				
Aromatic Hydrocarbon (C12-C16)	110	10.0	125.0	0	87.7	70	130				
Aromatic Hydrocarbon (C16-C21)	119	10.0	125.0	0	95.0	70	130				
Aromatic Hydrocarbon (C21-C34)	118	10.0	125.0	0	94.6	70	130				
Surr: o-Terphenyl	93.3		100.0		93.3	60	140				

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Work Order: 2012330
 CLIENT: Libby Environmental
 Project: Ross Simmons

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-30821	SampType: MBLK	Units: µg/Kg	Prep Date: 12/23/2020	RunNo: 64313							
Client ID: MBLKS	Batch ID: 30821		Analysis Date: 12/28/2020	SeqNo: 1292401							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	ND	40.0									
Chrysene	ND	40.0									
Benzo(b)fluoranthene	ND	40.0									
Benzo(k)fluoranthene	ND	40.0									
Benzo(a)pyrene	ND	40.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	40.0									
Surr: 2-Fluorobiphenyl	677		500.0		135	11.4	125				S
Surr: Terphenyl-d14 (surr)	812		500.0		162	29.5	155				S

NOTES:

S - Outlying surrogate recovery(ies) observed.

Sample ID: LCS-30821	SampType: LCS	Units: µg/Kg	Prep Date: 12/23/2020	RunNo: 64313							
Client ID: LCSS	Batch ID: 30821		Analysis Date: 12/28/2020	SeqNo: 1292402							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	983	40.0	1,000	0	98.3	58.7	128				
Chrysene	1,100	40.0	1,000	0	110	50.5	136				
Benzo(b)fluoranthene	877	40.0	1,000	0	87.7	49.8	126				
Benzo(k)fluoranthene	1,240	40.0	1,000	0	124	51.3	131				
Benzo(a)pyrene	960	40.0	1,000	0	96.0	52.9	124				
Indeno(1,2,3-cd)pyrene	940	40.0	1,000	0	94.0	49.6	119				
Dibenz(a,h)anthracene	949	40.0	1,000	0	94.9	48.1	123				
Surr: 2-Fluorobiphenyl	643		500.0		129	11.4	125				S
Surr: Terphenyl-d14 (surr)	760		500.0		152	29.5	155				

NOTES:

S - Outlying surrogate recovery(ies) observed.

Work Order: 2012330
CLIENT: Libby Environmental
Project: Ross Simmons

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2012282-002AMS	SampType: MS	Units: µg/Kg-dry			Prep Date: 12/23/2020	RunNo: 64313					
Client ID: BATCH	Batch ID: 30821				Analysis Date: 12/28/2020	SeqNo: 1292595					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,220	43.6	1,090	0	112	45.7	122				
Chrysene	1,000	43.6	1,090	0	91.7	34.9	124				
Benzo(b)fluoranthene	1,030	43.6	1,090	0	94.8	36.5	120				
Benzo(k)fluoranthene	1,100	43.6	1,090	0	101	30.4	123				
Benzo(a)pyrene	1,100	43.6	1,090	0	101	38.9	118				
Indeno(1,2,3-cd)pyrene	882	43.6	1,090	0	80.9	27.2	117				
Dibenz(a,h)anthracene	896	43.6	1,090	0	82.2	27.4	118				
Surr: 2-Fluorobiphenyl	609		545.0		112	11.4	125				
Surr: Terphenyl-d14 (surr)	775		545.0		142	29.5	155				

Sample ID: 2012282-002AMSD	SampType: MSD	Units: µg/Kg-dry			Prep Date: 12/23/2020	RunNo: 64313					
Client ID: BATCH	Batch ID: 30821				Analysis Date: 12/28/2020	SeqNo: 1292596					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,330	45.4	1,134	0	118	45.7	122	1,216	9.24	30	
Chrysene	1,120	45.4	1,134	0	98.7	34.9	124	999.9	11.3	30	
Benzo(b)fluoranthene	1,030	45.4	1,134	0	91.0	36.5	120	1,033	0.0795	30	
Benzo(k)fluoranthene	1,330	45.4	1,134	0	117	30.4	123	1,104	18.3	30	
Benzo(a)pyrene	1,210	45.4	1,134	0	107	38.9	118	1,098	10.1	30	
Indeno(1,2,3-cd)pyrene	988	45.4	1,134	0	87.1	27.2	117	882.4	11.3	30	
Dibenz(a,h)anthracene	987	45.4	1,134	0	87.0	27.4	118	896.4	9.63	30	
Surr: 2-Fluorobiphenyl	672		567.1		119	11.4	125		0		
Surr: Terphenyl-d14 (surr)	853		567.1		150	29.5	155		0		

Client Name: **LIBBY**
 Logged by: **Clare Griggs**

Work Order Number: **2012330**
 Date Received: **12/18/2020 9:24:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Present
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Sample ID revision requested by K.I. 1/12/21

Item Information

Item #	Temp °C
Sample	1.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

January 21, 2021

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 12/3/20

Page: 1 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address: 2105 S C Street

Project Name: Ross Simmons

City: Tacoma State: Wa Zip: 98402

Location: 250 Industrial Way City, State: Longview Wa

Phone: Fax:

Collector: NRG Date of Collection: 12/3/20

Client Project # 3238-001B

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes												Field Notes			
					VOC 8260	MTCA	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270		Semi Vol 8270		
1 B23-6	6'	8:45	Soil	2 4oz 2 VOA																Hold 1 4oz B29-6
2 B23-16.5	16.5'	9:20		1 4oz 2 VOA																B29-16.5'
3 B23-25	25'	9:15																		B29-25'
4 B24-2.5	2.5'	10:05																		B30-2.5
5 B24-13.5	13.5'	10:10																		B30-13.5'
6 B24-20	20'	10:15																		B30-20
7 B25-2.5	2.5	11:20																		B31-2.5
8 B25-6.5	6.5	11:30		2 VOA 2 4oz																Hold 1 4oz B31-6.5
9 B25-12.5	12.5	11:35		1 4oz 2 VOA																B31-12.5
10 B25-19	19	11:40																		B31-19
11 B26-6'	6	12:10																		B32-6'
12 B26-14	14	12:15																		B32-14
13 B26-23	23	12:20																		B32-23
14 B27-8.5	8.5	13:30																		B33-8.5
15 B27-11.5	11.5	13:15																		B33-11.5
16 B27-17	17	13:30																		B33-17
17 B27-25	25	13:25																		Hold B33-25

CPAH+Naph
add 1-13-21 per
JFH

Relinquished by: *[Signature]* Date / Time: 12/3/20 17:50

Received by: *[Signature]* Date / Time: 12/3/20 17:40

Sample Receipt

Good Condition? Y N
Cooler Temp. °C
Sample Temp. °C

Remarks: 1-11-21 SAMPLE NAME CHANGE PER NATASHA VIA EMAIL.

Relinquished by: Date / Time

Received by: Date / Time

Total Number of Containers

TAT: 24HR 48HR 5-DAY

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201203-4C

Date Received 12/3/2020 17:50

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) -0.4 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 3.5 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Libby Environmental
Sherry Chilcutt
3322 South Bay Road NE
Olympia, WA 98506

RE: Ross Simmons
Work Order Number: 2101228

January 21, 2021

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 1 sample(s) on 1/14/2021 for the analyses presented in the following report.

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



Date: 01/21/2021

CLIENT: Libby Environmental
Project: Ross Simmons
Work Order: 2101228

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2101228-001	B33-8.5	12/03/2020 1:30 PM	01/14/2021 11:37 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Libby Environmental
Project: Ross Simmons

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Libby Environmental

Collection Date: 12/3/2020 1:30:00 PM

Project: Ross Simmons

Lab ID: 2101228-001

Matrix: Soil

Client Sample ID: B33-8.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 31100

Analyst: SB

Naphthalene	80.2	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
2-Methylnaphthalene	1,880	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
1-Methylnaphthalene	5,730	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
Benz(a)anthracene	ND	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
Chrysene	74.1	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
Benzo(b)fluoranthene	ND	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
Benzo(k)fluoranthene	ND	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
Benzo(a)pyrene	ND	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
Indeno(1,2,3-cd)pyrene	ND	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
Dibenz(a,h)anthracene	ND	53.3	H	µg/Kg-dry	1	1/20/2021 3:51:36 PM
Surr: 2-Fluorobiphenyl	129	11.4 - 125	SH	%Rec	1	1/20/2021 3:51:36 PM
Surr: Terphenyl-d14 (surr)	152	29.5 - 155	H	%Rec	1	1/20/2021 3:51:36 PM

NOTES:

S - Outlying surrogate recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Sample Moisture (Percent Moisture)

Batch ID: R64707

Analyst: CH

Percent Moisture	28.1	0.500		wt%	1	1/15/2021 9:15:39 AM
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Work Order: 2101228
 CLIENT: Libby Environmental
 Project: Ross Simmons

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-31100	SampType: MBLK	Units: µg/Kg	Prep Date: 1/20/2021	RunNo: 64835							
Client ID: MBLKS	Batch ID: 31100		Analysis Date: 1/20/2021	SeqNo: 1303988							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	40.0									
2-Methylnaphthalene	ND	40.0									
1-Methylnaphthalene	ND	40.0									
Benz(a)anthracene	ND	40.0									
Chrysene	ND	40.0									
Benzo(b)fluoranthene	ND	40.0									
Benzo(k)fluoranthene	ND	40.0									
Benzo(a)pyrene	ND	40.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	40.0									
Surr: 2-Fluorobiphenyl	477		500.0		95.5	11.4	125				
Surr: Terphenyl-d14 (surr)	639		500.0		128	29.5	155				

Sample ID: LCS-31100	SampType: LCS	Units: µg/Kg	Prep Date: 1/20/2021	RunNo: 64835							
Client ID: LCSS	Batch ID: 31100		Analysis Date: 1/20/2021	SeqNo: 1303989							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,150	40.0	1,000	0	115	52.1	121				
2-Methylnaphthalene	1,210	40.0	1,000	0	121	56.3	118				S
1-Methylnaphthalene	1,190	40.0	1,000	0	119	57.9	120				
Benz(a)anthracene	1,270	40.0	1,000	0	127	58.7	128				
Chrysene	1,290	40.0	1,000	0	129	50.5	136				
Benzo(b)fluoranthene	1,180	40.0	1,000	0	118	49.8	126				
Benzo(k)fluoranthene	1,460	40.0	1,000	0	146	51.3	131				S
Benzo(a)pyrene	1,380	40.0	1,000	0	138	52.9	124				S
Indeno(1,2,3-cd)pyrene	1,300	40.0	1,000	0	130	49.6	119				S
Dibenz(a,h)anthracene	1,300	40.0	1,000	0	130	48.1	123				S
Surr: 2-Fluorobiphenyl	537		500.0		107	11.4	125				
Surr: Terphenyl-d14 (surr)	749		500.0		150	29.5	155				

Work Order: 2101228
CLIENT: Libby Environmental
Project: Ross Simmons

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-31100	SampType: LCS	Units: µg/Kg	Prep Date: 1/20/2021	RunNo: 64835							
Client ID: LCSS	Batch ID: 31100	Analysis Date: 1/20/2021	SeqNo: 1303989								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Outlying spike recovery(ies) observed for 2-Methylnaphthalene and Benzo(k)fluoranthene. A duplicate analysis was performed and recovered within range.
 S - Outlying spike recovery observed (high bias) for Benzo(a)pyrene, Benzo(a)pyrene, and Dibenz(a,h)anthracene. Samples are non-detect for this analyte; no further action required.

Sample ID: LCSD-31100	SampType: LCSD	Units: µg/Kg	Prep Date: 1/20/2021	RunNo: 64835							
Client ID: LCSS02	Batch ID: 31100	Analysis Date: 1/20/2021	SeqNo: 1303990								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,120	40.0	1,000	0	112	52.1	121	1,148	2.27	30	
2-Methylnaphthalene	1,150	40.0	1,000	0	115	56.3	118	1,212	5.04	30	
1-Methylnaphthalene	1,130	40.0	1,000	0	113	57.9	120	1,194	5.88	30	
Benz(a)anthracene	1,150	40.0	1,000	0	115	58.7	128	1,266	9.55	30	
Chrysene	1,240	40.0	1,000	0	124	50.5	136	1,291	3.86	30	
Benzo(b)fluoranthene	1,240	40.0	1,000	0	124	49.8	126	1,176	5.14	30	
Benzo(k)fluoranthene	1,240	40.0	1,000	0	124	51.3	131	1,462	16.2	30	
Benzo(a)pyrene	1,290	40.0	1,000	0	129	52.9	124	1,383	6.60	30	S
Indeno(1,2,3-cd)pyrene	1,250	40.0	1,000	0	125	49.6	119	1,300	4.18	30	S
Dibenz(a,h)anthracene	1,240	40.0	1,000	0	124	48.1	123	1,302	5.19	30	S
Surr: 2-Fluorobiphenyl	558		500.0		112	11.4	125		0		
Surr: Terphenyl-d14 (surr)	718		500.0		144	29.5	155		0		

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID: 2101228-001AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 1/20/2021	RunNo: 64835							
Client ID: B33-8.5	Batch ID: 31100	Analysis Date: 1/20/2021	SeqNo: 1303992								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,830	55.4	1,384	80.16	126	35	115				SH
2-Methylnaphthalene	2,850	55.4	1,384	1,882	70.2	37.2	115				H
1-Methylnaphthalene	5,770	55.4	1,384	5,727	3.38	40.8	114				SH
Benz(a)anthracene	1,770	55.4	1,384	29.02	126	45.7	122				SH

Work Order: 2101228
 CLIENT: Libby Environmental
 Project: Ross Simmons

QC SUMMARY REPORT
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2101228-001AMS	SampType: MS	Units: µg/Kg-dry		Prep Date: 1/20/2021	RunNo: 64835						
Client ID: B33-8.5	Batch ID: 31100			Analysis Date: 1/20/2021	SeqNo: 1303992						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	1,630	55.4	1,384	74.09	112	34.9	124				H
Benzo(b)fluoranthene	1,610	55.4	1,384	0	116	36.5	120				H
Benzo(k)fluoranthene	1,770	55.4	1,384	0	128	30.4	123				SH
Benzo(a)pyrene	1,810	55.4	1,384	8.678	130	38.9	118				SH
Indeno(1,2,3-cd)pyrene	1,580	55.4	1,384	0	114	27.2	117				H
Dibenz(a,h)anthracene	1,550	55.4	1,384	0	112	27.4	118				H
Surr: 2-Fluorobiphenyl	780		692.0		113	11.4	125				H
Surr: Terphenyl-d14 (surr)	976		692.0		141	29.5	155				H

NOTES:

S - Spike recovery indicates a possible matrix effect.

Client Name: **LIBBY**

 Work Order Number: **2101228**

 Logged by: **Gabrielle Coeuille**

 Date Received: **1/14/2021 11:37:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Hold time approval on COC.

Item Information

Item #	Temp °C
Sample 1	3.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE

Ph: 360-352-2110

Olympia, WA 98506

Fax: 360-352-4154

2101228

Date: 1-13-21

Page: 1 of 1

Client: Libby Environmental, Inc

Project Manager: S Chilcutt

Address:

Project Name: Ross Simmons

City: State: Zip:

Location: City, State: Longview, WA

Phone: Fax:

Collector: Date of Collection: 12-3-20

Client Project #

Email:

Page 10 of 10



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	PAH 8270	Semi Vol 8270	Naphthalenes	Field Notes
1	B 33-8.5	8.5'	S	40L Jar									X	X		Out of field
2	B 33-11.5	11.5'	S	40L Jar												
3	B															
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																

Relinquished by:	Date / Time: 1/13/2021 1630	Received by: UPS	Date / Time:	Sample Receipt Good Condition? <u>Y</u> <u>N</u> Cooler Temp. °C Sample Temp. °C Total Number of Containers:	Remarks: 3 standard TAT
Relinquished by: UPS	Date / Time:	Received by:	Date / Time: 1/14/21 11:37		
Relinquished by:	Date / Time:	Received by:	Date / Time:		
TAT: 24HR 48HR 5-DAY					



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

December 14, 2020

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 12/7/20

Page: 1 of 1

Client: Robinson Noble

Project Manager: JFH

Address: 2105 S C Street

Project Name: Ross Simmons

City: Tacoma

State: Wa Zip: 98402

Location: 250 Industrial Way

City, State: Longview Wa

Phone:

Fax:

Collector: NR6

Date of Collection: 12/7/20

Client Project # 3238-001B

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes								
					VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270		Semi Vol 8270							
1 B39-4.5	4.5'	9:35	Soil	4oz 2VOA																			B48-4.5	
2 B39-7	7'	9:25		24oz 2VOA																				Hold 1 4oz B48-7
3 B39-18.5	18.5'	9:30		4oz 2VOA																				B48-18.5
4 B40-12	12'	10:35																						B49-12
5 B40-17.5	17.5'	10:40																						B49-17.5
6 B40-23	23'	10:45																						B49-23
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								

Relinquished by: *[Signature]* Date / Time: 12/7/20 15:46

Received by: *[Signature]* Date / Time: 12/7/20 15:46

Sample Receipt

Good Condition? Y N

Cooler Temp. °C

Sample Temp. °C

Relinquished by: _____ Date / Time: _____

Received by: _____ Date / Time: _____

Total Number of Containers

Remarks: 1-11-21 SAMPLE NAME CHANGE PER NATASHA VIA EMAIL.

TAT: 24HR 48HR 5-DAY

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201207-3

Client Project # 3238-001B

Analyses of Diesel, Oil & Heavy Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Heavy Oil (mg/kg)
Method Blank	12/8/2020	101	nd	nd	nd
B48-4.5	12/8/2020	int	nd	nd	45000
B48-4.5 Dup	12/8/2020	int	nd	nd	35000
B48-7	12/8/2020	93	nd	nd	1900
B48-18.5	12/8/2020	102	nd	nd	nd
B49-12	12/8/2020	82	nd	nd	nd
B49-17.5	12/8/2020	106	nd	nd	nd
B49-23	12/8/2020	101	nd	nd	nd
Practical Quantitation Limit			50	250	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kory Dixon

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201207-3

Date Received 12/7/2020 15:46

Received By JC

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) -0.6 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 4.6 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

December 14, 2020

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE

Ph: 360-352-2110

Olympia, WA 98506

Fax: 360-352-4154

Date: 12/8/20

Page: of

Client: Robinson Noble

Project Manager: JFH

Address: 2105 S C Street

Project Name: Ross Simmons

City: Tacoma State: Wa Zip: 98402

Location: 250 Industrial Way City, State: Longview Wa

Phone: Fax:

Collector: NRG + TAL Date of Collection: 12/8/20

Client Project # 3238-001B

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes												Field Notes										
					VOC 8260	MTCA	PCE & Daughter Prod.	PAHs	BTEX (8260) / (8021)	NWTPH-HCID	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270											
1 MW 12	—	12:36	Water	1/2 Amber UOA	X	X				X																	
2 MW 13	—	15:23	↓	↓	X					X																	
3 MW 14	—	13:42			X						X																
4 MW 15	—	10:33			X						X																
5 MW 16	—	16:14			X						X																
6 MW 21	—	14:32			X						X																
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											

Relinquished by: <i>Tom Colby</i>	Date / Time: 12/8 6:14 PM	Received by: <i>Smith Arden</i>	Date / Time: 12-9-20 09:55	Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers	Remarks: TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - Original

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201209-1

Client Project # 3238-001B

Volatile Organic Compounds by EPA Method 8260D in Water

Sample Description	Method	MW13	MW21	
	Blank			
Date Sampled	N/A	12/8/2020	12/8/2020	
Date Analyzed	PQL	12/10/2020	12/10/2020	
	(µg/L)	(µg/L)	(µg/L)	
Benzene	1.0	nd	nd	
Toluene	1.0	nd	nd	
Ethylbenzene	1.0	nd	nd	
Total Xylenes	2.0	nd	nd	
1,2-Dichloroethane (EDC)	1.0	nd	nd	
1,2-Dibromoethane (EDB) *	0.01	nd	nd	
Naphthalene	5.0	nd	nd	
1-Methylnaphthalene	5.0	nd	nd	
2-Methylnaphthalene	5.0	nd	nd	
Methyl <i>tert</i> - Butyl Ether (MTBE)	5.0	nd	nd	
Surrogate Recovery				
Dibromofluoromethane	129	129	129	
1,2-Dichloroethane-d4	133	131	127	
Toluene-d8	97	103	99	
4-Bromofluorobenzene	100	90	91	

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

* ANALYZED BY SIM

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Kodey Eley

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
 Robinson Noble
 Longview, Washington
 Libby Project # L201209-1

3322 South Bay Road NE
 Olympia, WA 98506
 Phone: (360) 352-2110
 FAX: (360) 352-4154
 Email: libbyenv@gmail.com

QA/QC for Volatile Organic Compounds by EPA Method 8260D in Water

Matrix Spike Sample Identification: L201208-2								
Date Analyzed: 12/10/2020								
	Spiked Conc. (µg/L)	MS Response (µg/L)	MSD Response (µg/L)	MS Recovery (%)	MSD Recovery (%)	RPD (%)	Limits Recovery (%)	Data Flag
Methyl <i>tert</i> - Butyl Ether (MTBE)	5.0	6.3	5.3	125	105	17.4	65-135	
Benzene	5.0	4.7	5.6	93	113	19.1	65-135	
1,2-Dichloroethane (EDC)	5.0	6.2	6.0	124	119	4.4	65-135	
Toluene	5.0	5.1	4.2	102	84	18.8	65-135	
1,2-Dibromoethane (EDB)	5.0	5.2	4.4	105	89	16.2	65-135	
Ethylbenzene	5.0	5.1	4.3	102	87	16.0	65-135	
Total Xylenes	15.0	14.0	13.2	94	88	6.5	65-135	
Naphthalene	5.0	4.3	3.9	85	79	8.3	65-135	
1-Methylnaphthalene	5.0	3.4	3.6	67	72	6.6	65-135	
2-Methylnaphthalene	5.0	3.4	3.6	67	71	6.0	65-135	
Surrogate Recovery (%)				MS	MSD			
Dibromofluoromethane				128	130		65-135	
1,2-Dichloroethane-d4				122	134		65-135	
Toluene-d8				96	88		65-135	
4-Bromofluorobenzene				99	99		65-135	

ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Kodey Eley

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
Robinson Noble
Longview, Washington
Libby Project # L201209-1

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Laboratory Control Sample

Date Analyzed: 12/10/2020

	Spiked Conc. (µg/L)	LCS Response (µg/L)	LCS Recovery (%)	LCS Recovery Limits (%)	Data Flag
Methyl <i>tert</i> - Butyl Ether (MTBE)	5.0	5.5	109	80-120	
Benzene	5.0	4.4	89	80-120	
1,2-Dichloroethane (EDC)	5.0	5.8	117	80-120	
Toluene	5.0	4.9	97	80-120	
1,2-Dibromoethane (EDB)	5.0	4.8	96	80-120	
Ethylbenzene	5.0	4.5	89	80-120	
Total Xylenes	15.0	12.9	86	80-120	
Naphthalene	5.0	4.5	91	80-120	
1-Methylnaphthalene	5.0	5.8	115	80-120	
2-Methylnaphthalene	5.0	5.5	110	80-120	
Surrogate Recovery					
Dibromofluoromethane			133	65-135	
1,2-Dichloroethane-d4			135	65-135	
Toluene-d8			100	65-135	
4-Bromofluorobenzene			101	65-135	

ANALYSES PERFORMED BY: Kodey Eley

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201209-1

Client Project # 3238-001B

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/L)	Oil (µg/L)
Method Blank	12/9/2020	82	nd	nd
MW12	12/9/2020	86	nd	nd
MW13	12/9/2020	84	234	nd
MW14	12/9/2020	84	nd	nd
MW14 Dup	12/9/2020	85	nd	nd
MW15	12/9/2020	82	nd	nd
MW16	12/9/2020	85	nd	nd
MW21	12/9/2020	82	nd	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Jenny Anderson

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201209-1

Date Received 12/9/2020 9:57

Received By JA

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) 3.0 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 10.1 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

December 15, 2020

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE

Ph: 360-352-2110

Olympia, WA 98506

Fax: 360-352-4154

Date: 12/9/20

Page: 1 of 1

Client: Robinson Noble

Project Manager: JFH

Address: 2105 S C Street

Project Name: ROSS SIMMONS

City: Tacoma State: WA Zip: 98402

Location: 250 Industrial Way City, State: Longview WA

Phone: Fax:

Collector: NRG Date of Collection: 12/9/20

Client Project # 3238-0013

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes												
					VOC 8260	MtCA	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270		PAH 8270	Semi Vol 8270										
1 MW 1		15:37	Water	1/2 Amber 3 Vol																							
2 MW 20		16:27	↓	↓	X																						
3 MW 22		14:42																									
4 MW 11		13:55																									
5 MW 18		13:00																									
6 MW 2		12:05																									
7 MW 10		11:06																									
8 MW 19		10:10																									
9 MW 17		9:06																									
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											

Relinquished by: <i>[Signature]</i>	Date / Time: 12/9/20 (7:50)	Received by: <i>[Signature]</i>	Date / Time: 12/9/20 17:23	Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers	Remarks: TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201209-6

Client Project # 3238-001B

Volatile Organic Compounds by EPA Method 8260D in Water

Sample Description	Method	MW20
	Blank	
Date Sampled	N/A	12/9/2020
Date Analyzed	PQL (µg/L)	12/13/2020 (µg/L)
Benzene	1.0	nd
Toluene	1.0	nd
Ethylbenzene	1.0	nd
Total Xylenes	2.0	nd
1,2-Dichloroethane (EDC)	1.0	nd
1,2-Dibromoethane (EDB) *	0.01	nd
Naphthalene	5.0	nd
1-Methylnaphthalene	5.0	31
2-Methylnaphthalene	5.0	25
Methyl <i>tert</i> - Butyl Ether (MTBE)	5.0	nd
Surrogate Recovery		
Dibromofluoromethane	122	122
1,2-Dichloroethane-d4	111	112
Toluene-d8	101	109
4-Bromofluorobenzene	98	90

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

* ANALYZED BY SIM

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

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Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201209-6

Client Project # 3238-001B

QA/QC for Volatile Organic Compounds by EPA Method 8260D in Water

Matrix Spike Sample Identification: L201208-4					
Date Analyzed: 12/13/2020					
	Spiked Conc. (µg/L)	MS Response (µg/L)	MS Recovery (%)	Limits Recovery (%)	Data Flag
Methyl <i>tert</i> - Butyl Ether (MTBE)	5.0	6.7	133	65-135	
Benzene	5.0	5.7	113	65-135	
1,2-Dichloroethane (EDC)	5.0	6.4	129	65-135	
Toluene	5.0	4.1	81	65-135	
1,2-Dibromoethane (EDB)	5.0	5.5	109	65-135	
Ethylbenzene	5.0	5.1	102	65-135	
Total Xylenes	15.0	13.6	90	65-135	
Naphthalene	5.0	3.3	66	65-135	
1-Methylnaphthalene	5.0	3.8	75	65-135	
2-Methylnaphthalene	5.0	3.9	78	65-135	
Surrogate Recovery (%)			MSD		
Dibromofluoromethane			130	65-135	
1,2-Dichloroethane-d4			128	65-135	
Toluene-d8			89	65-135	
4-Bromofluorobenzene			114	65-135	

ACCEPTABLE RPD IS 35%

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ROSS SIMMONS PROJECT

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Longview, Washington

Libby Project # L201209-6

Client Project # 3238-001B

Laboratory Control Sample

Date Analyzed: 12/13/2020

	Spiked Conc. (µg/L)	LCS Response (µg/L)	LCS Recovery (%)	LCS Recovery Limits (%)	Data Flag
Methyl <i>tert</i> - Butyl Ether (MTBE)	5.0	5.3	105	80-120	
Benzene	5.0	4.9	98	80-120	
1,2-Dichloroethane (EDC)	5.0	4.6	92	80-120	
Toluene	5.0	4.6	91	80-120	
1,2-Dibromoethane (EDB)	5.0	5.8	115	80-120	
Ethylbenzene	5.0	5.1	102	80-120	
Total Xylenes	15.0	14.0	93	80-120	
Naphthalene	5.0	5.1	102	80-120	
1-Methylnaphthalene	10.0	11.8	118	80-120	
2-Methylnaphthalene	10.0	10.8	108	80-120	
Surrogate Recovery					
Dibromofluoromethane			124	65-135	
1,2-Dichloroethane-d4			125	65-135	
Toluene-d8			107	65-135	
4-Bromofluorobenzene			113	65-135	

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ROSS SIMMONS PROJECT
Robinson Noble
Longview, Washington
Libby Project # L201209-6
Client Project # 3238-001B

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
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Analyses of Diesel, Oil & Heavy Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/L)	Oil (µg/L)	Heavy Oil (µg/L)
Method Blank	12/10/2020	80	nd	nd	nd
MW1	12/10/2020	84	nd	nd	nd
MW1 Dup	12/10/2020	81	nd	nd	nd
MW20	12/10/2020	81	nd	nd	nd
MW22	12/10/2020	81	nd	nd	nd
MW11	12/10/2020	84	nd	nd	nd
MW18	12/10/2020	83	nd	nd	340 J
MW2	12/10/2020	83	nd	nd	2300
MW10	12/10/2020	84	nd	nd	nd
MW19	12/10/2020	84	nd	nd	nd
MW17	12/10/2020	84	nd	nd	nd
Practical Quantitation Limit			200	400	400

"J" Result is less than the PQL but greater than the MDL. Reported value is approximate.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Jenny Anderson

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

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Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201209-6

Date Received 12/9/2020 17:23

Received By JC

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) -1.7 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 5.3 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

December 14, 2020

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Ross Simmons Project located in Longview, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

ROSS SIMMONS PROJECT

Robinson Noble

Longview, Washington

Libby Project # L201210-4

Client Project # 3238-001B

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/L)	Oil (µg/L)
Method Blank	12/11/2020	88	nd	nd
MW3	12/11/2020	85	nd	nd
MW3 Dup	12/11/2020	88	nd	nd
MW4	12/11/2020	87	nd	nd
MW5	12/11/2020	85	nd	nd
MW6	12/11/2020	85	nd	nd
MW7	12/11/2020	86	nd	nd
MW8	12/11/2020	85	nd	nd
MW9	12/11/2020	90	250	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Jenny Anderson

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ROSS SIMMONS PROJECT

Robinson Noble

Libby Project # L201210-4

Date Received 12/10/2020 16:54

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody complete? Yes No
2. How was the sample delivered? Hand Delivered Picked Up Shipped

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) 4.0 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 8.2 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____

