

EVERGREEN ENVIRONMENTAL MANAGEMENT, LLC

Post Office Box 1604 / Beaverton, Oregon 97075 -1604 / Telephone (503) 985-1717
evergreenenvgmt@mac.com

February 8, 2023

Mr. Kevin Bretthauer
Bretthauer Petroleum
453 SW Washington Street
Hillsboro, OR 97123

Re: 2nd Quarter Monitoring Well Sampling Event Report, Bretthauer Petroleum Facility, 453 SW Washington Street, Hillsboro, OR.

Dear Mr. Bretthauer:

This letter report summarizes the laboratory analytical results of the second quarterly groundwater sampling event at the Bretthauer bulk petroleum facility at 435 SW Washington Street in Hillsboro, Oregon, that was conducted on January 28, 2023. The first sampling event occurred on September 13, 2022 during the completion of ten push probe borings (GP-1-10) five of which were converted to groundwater monitoring wells MW-1, MW-5, MW-8, MW-9 and MW-10. Please see Figure 2.

Prior to bailing each well the static water level was measured by EEM and provided to Erik Anderson of Anderson Geological who again created a map showing water elevation as shown in Figure 3. Based on the September readings groundwater appears to be relatively flat in the subject property area. As shown in the January 2023 map there appears to be a high point in the MW-1 area and groundwater moves outward to the north, east and south from there.

The wells were hand bailed with dedicated disposable bailers into 5 gallon buckets. Typically 4 to 6 gallons of water were removed from each well. As shown in Table 2 static water elevation has risen an average of 2 to 3 feet in each well since the September 13, 2022, sampling event. No gasoline, diesel or oil sheens or vapors were detected in the water removed from each well.



Lab Results

The groundwater samples from each well were analyzed for the presence of gasoline, diesel and oil range petroleum hydrocarbons by TPH-Gx and Dx scans. The results are summarized in Table 1.

No gasoline was detected in any of the water samples above the method detection limit of 100 parts per billion (ppb).

Diesel was detected in MW-1 and MW-10 at 436 and 399 ppb. No oil was detected in any of the samples.

All of the water samples were analyzed for the presence of Volatile Organic Compounds (VOCs). As shown in Table 2 only insignificant concentrations of a few chemicals were detected in MW-1, MW-8, MW-9 and MW-10.

These results are consistent with the findings of the 2015 groundwater sampling work and the September 2022 sampling event. The accumulated data does not suggest a specific release event at the facility.

Examination of DEQ's Risk Based Corrective Action Guidelines

DEQ has four exposure categories in their RBCA guidelines for groundwater in an Occupational setting. These are:

- Ingestion & Inhalation from Tap Water
- Volatilization to Outdoor Air
- Vapor Intrusion into Buildings
- Groundwater in Excavations

Drinking water at the site is provided by the City of Hillsboro so the Ingestion and Inhalation from Tap Water category is not applicable.

Only 436 ppb of diesel in MW-1 and 399 ppb in MW-10 diesel were detected in the water samples from GP-1 and GP-10. No gasoline was detected in any of the water samples. Only 1.05 ppb of MTBE was detected in MW-10. All of these concentrations are below the Maximum Contaminant Levels for the remaining three exposure categories.

Conclusions

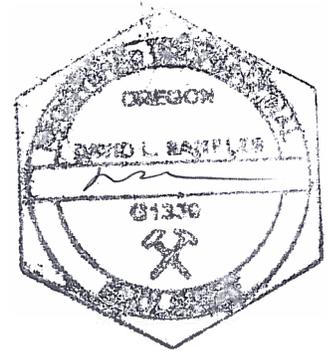
Based on the 2015 sampling data and first quarter 2022 and the second quarter 2023 sampling results the concentrations of petroleum in the groundwater at the subject property continue to be insignificant and do not present a hazard to the facility occupants or the public. The next anticipated groundwater sampling event should occur in April of 2023.

If after your review of this report, you have any questions or comments regarding the site investigation work please call me at 503 985-1717.

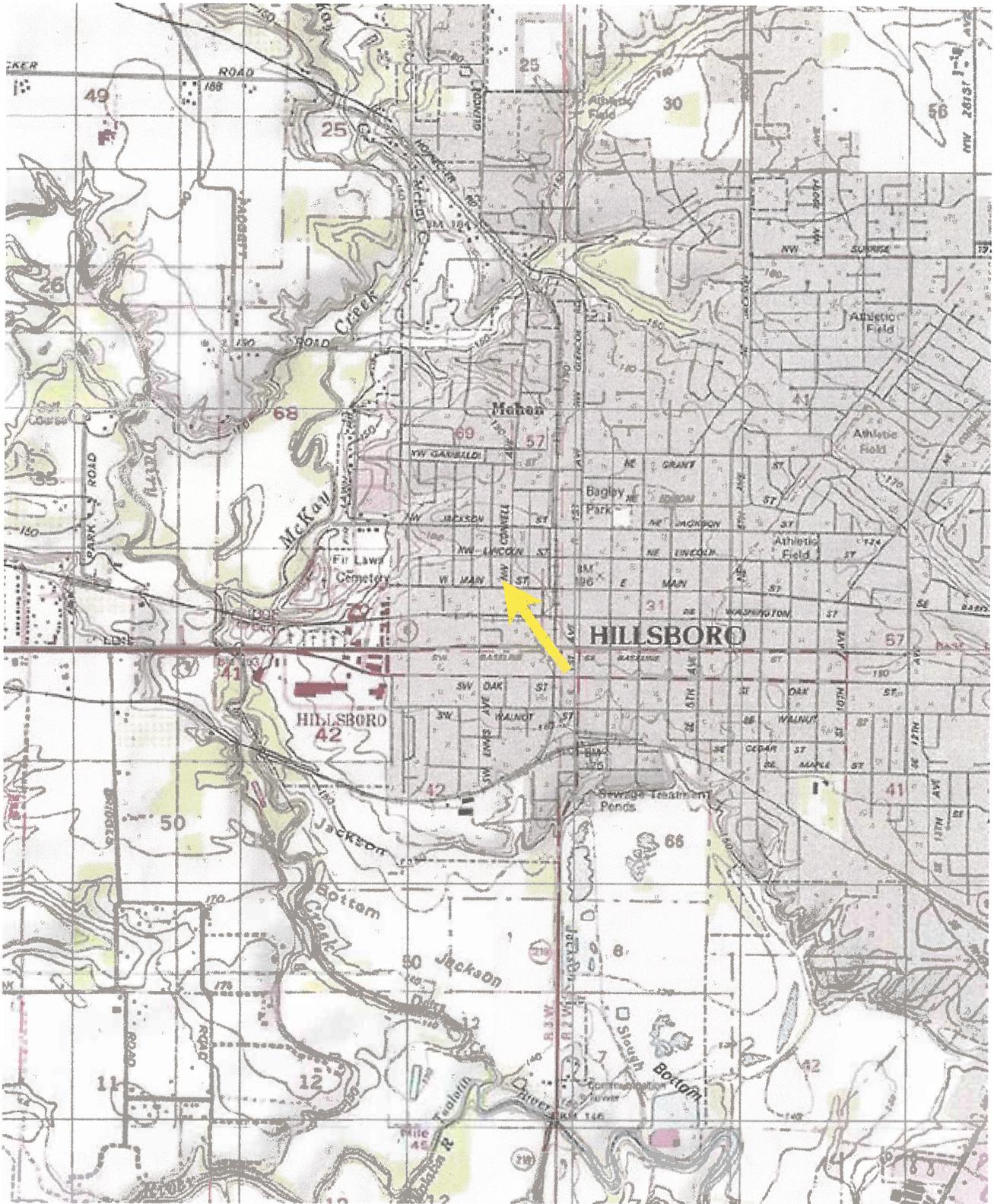
Sincerely,



David L. Samples R.G.
OR & WA Registered Geologist



Attachments: Figures 1, 2 and 3
Table 1
Table 2
EEM's Chain-of-Custody and Laboratory Analytical Results



**EVERGREEN
ENVIRONMENTAL
MANAGEMENT, LLC**
P.O. BOX 1604
Beaverton, OR 97075-1604

FIGURE NO. 1 PROJECT# 22 - 23
Project Location Map
Bretthauer Oil Co. Property
453 SW Washington Street
Hillsboro, OR 97123

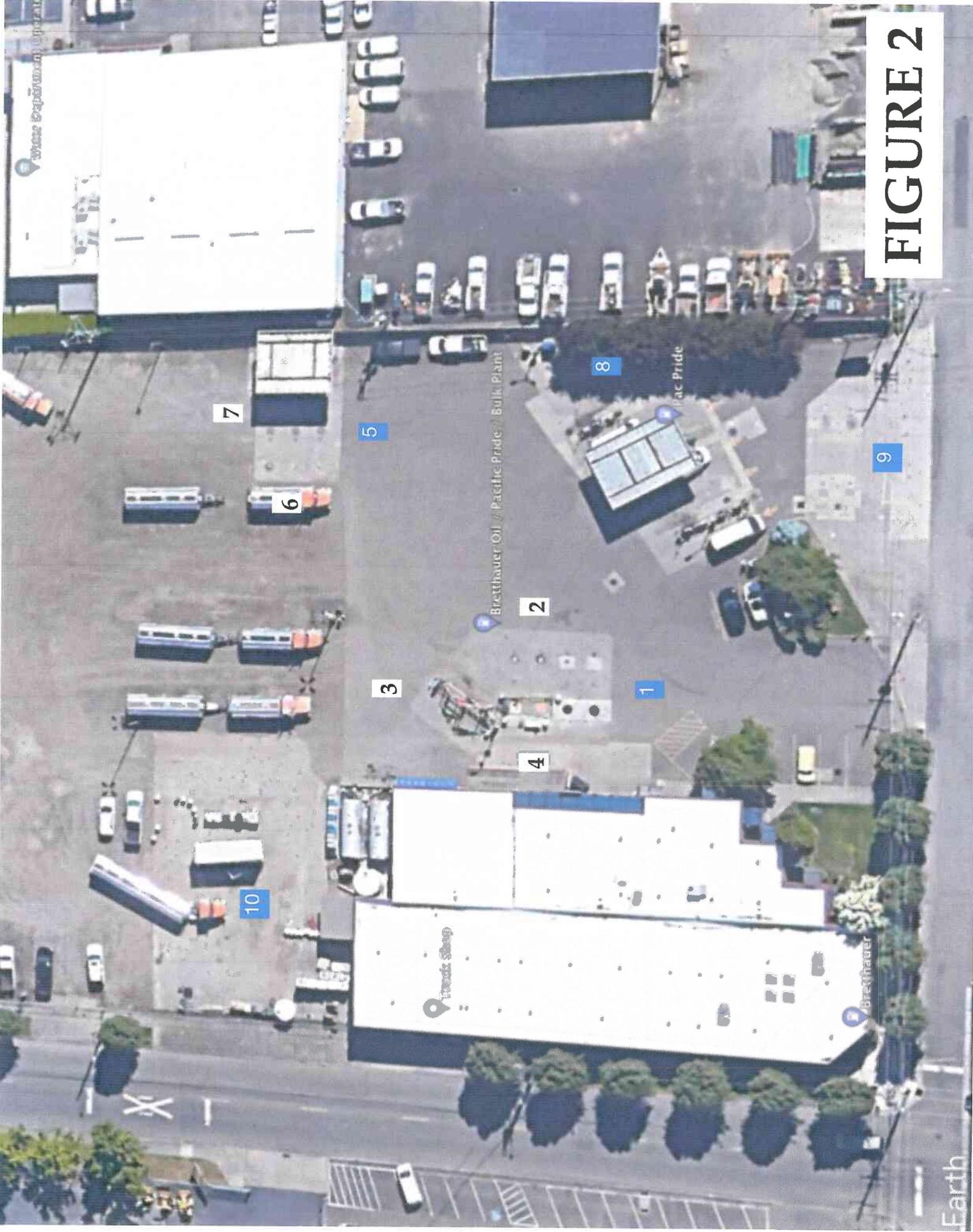
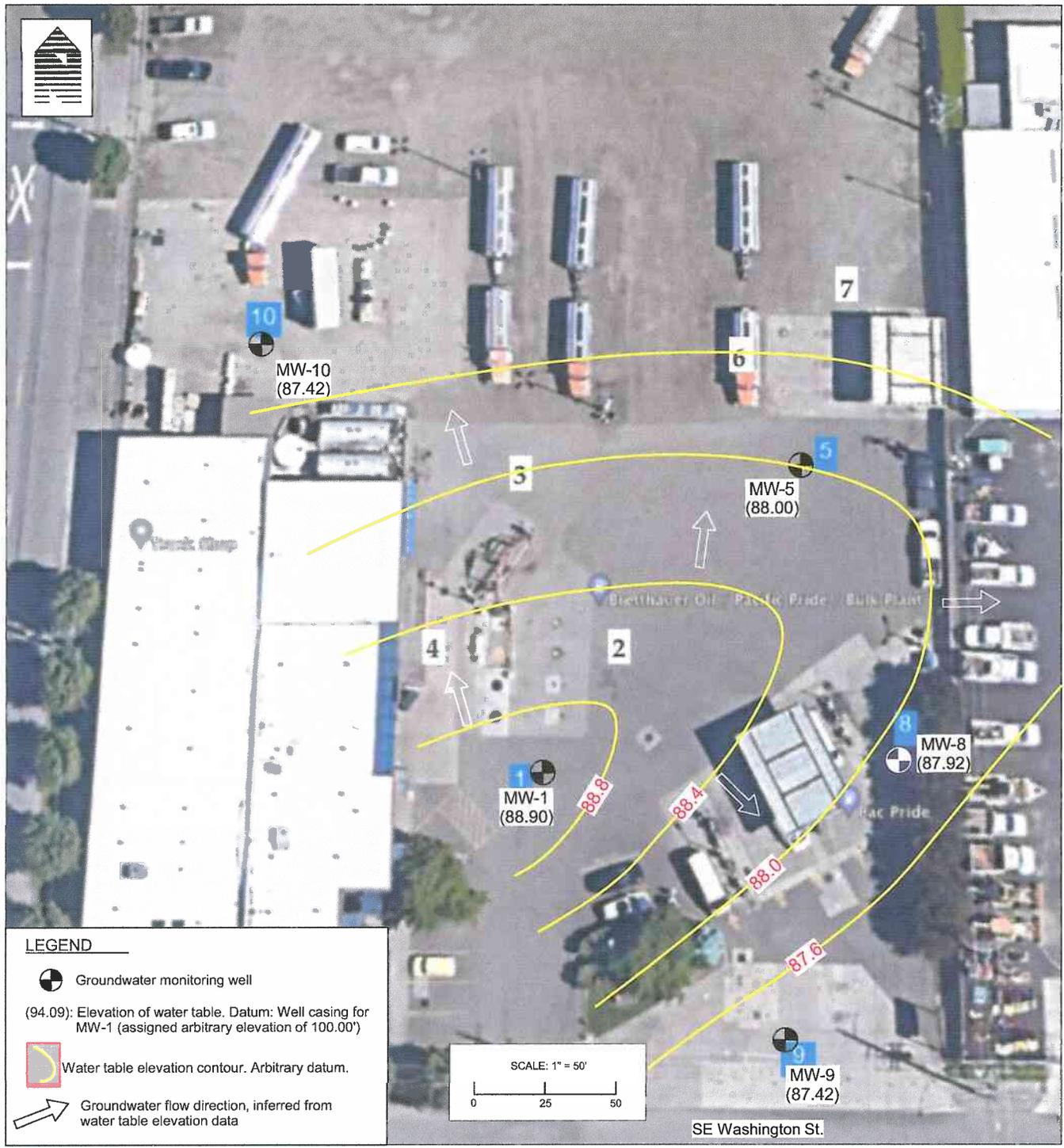


FIGURE 2



LEGEND

-  Groundwater monitoring well
- (94.09): Elevation of water table. Datum: Well casing for MW-1 (assigned arbitrary elevation of 100.00')
-  Water table elevation contour. Arbitrary datum.
-  Groundwater flow direction, inferred from water table elevation data

SCALE: 1" = 50'

0 25 50

 ANDERSON GEOLOGICAL	INFERRED DIRECTION OF GROUNDWATER FLOW (Jan. 28, 2023)	
	Bretthauer Oil Co. 453 SE Washington St., Hillsboro, Oregon	
SIZE A	REV	Feb. 2023
		FIGURE

TABLE 1
1st and 2nd Quarter Sampling Events
Groundwater Sampling Laboratory Analytical Data
Bretthauer Petroleum Property
453 SW Washington Street, Hillsboro, OR 97123

Sample ID#	Date	TPH-HCID	TPH-Gx Gasoline parts per billion	TPH-Dx Diesel - Oil parts per billion	Volatile Organic Compounds parts per billion	Polynuclear Aromatic Hydrocarbons parts per billion
GP-1 GW	9/13/22	Diesel		D - 278	ND	ND
	1/28/23		ND	D - 436	Sec-Butybenze - 1.06	
GP-5 GW	9/13/22	ND			ND	
	1/28/23		ND	ND	ND	
GP-8 GW	9/13/22	ND			ND	
	1/28/23		ND	ND	Benzene - 0.280	
GP-9 GW	9/13/22	ND			ND	
	1/28/23		ND	ND	Sec-Butybenze - 1.19	
GP-10 GW	9/13/22	Diesel		D - 250	MTBE - 11.6	
	1/28/23		ND	D - 399	MTBE - 1.05	

TABLE 2

**Groundwater Elevation Map
Bretthauer Property
453 SW Washington Street, Hillsboro, OR 97123**

Sample ID#	Date	Well Head Elevation North side of casing	Groundwater Elevation BTC	Groundwater Elevation
MW-1	10/18/22	100.00	15.10'	84.9'
	1/28/23		11.1'	88.9'
MW-5	10/18/22	101.03	15.83'	85.2'
	1/28/23		13.0'	88.0'
MW-8	10/18/22	100.13	15.36'	84.77'
	1/28/23		12.2'	87.92'
MW-9	10/18/22	100.67	14.93'	85.74'
	1/28/23		13.25'	87.42'
MW-10	10/18/22	99.92	15.15'	84.77'
	1/28/23		12.5'	87.42'



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, February 9, 2023

Dave Samples
Evergreen Environmental
PO Box 1604
Beaverton, OR 97075

RE: A3A0977 - Bretthauer - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3A0977, which was received by the laboratory on 1/30/2023 at 10:07:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 5.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A3A0977-01	Water	01/28/23 00:00	01/30/23 10:07
MW-5	A3A0977-02	Water	01/28/23 00:00	01/30/23 10:07
MW-8	A3A0977-03	Water	01/28/23 00:00	01/30/23 10:07
MW-9	A3A0977-04	Water	01/28/23 00:00	01/30/23 10:07
MW-10	A3A0977-05	Water	01/28/23 00:00	01/30/23 10:07

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A3A0977-01)				Matrix: Water		Batch: 23B0122		
Diesel	436	---	200	ug/L	1	02/03/23 21:11	NWTPH-Dx	F-11
Oil	ND	---	400	ug/L	1	02/03/23 21:11	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>02/03/23 21:11</i>	<i>NWTPH-Dx</i>
MW-5 (A3A0977-02)				Matrix: Water		Batch: 23B0122		
Diesel	ND	---	192	ug/L	1	02/03/23 21:32	NWTPH-Dx	
Oil	ND	---	385	ug/L	1	02/03/23 21:32	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>02/03/23 21:32</i>	<i>NWTPH-Dx</i>
MW-8 (A3A0977-03)				Matrix: Water		Batch: 23B0122		
Diesel	ND	---	192	ug/L	1	02/03/23 21:52	NWTPH-Dx	
Oil	ND	---	385	ug/L	1	02/03/23 21:52	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>02/03/23 21:52</i>	<i>NWTPH-Dx</i>
MW-9 (A3A0977-04)				Matrix: Water		Batch: 23B0122		
Diesel	ND	---	189	ug/L	1	02/03/23 22:12	NWTPH-Dx	
Oil	ND	---	377	ug/L	1	02/03/23 22:12	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 81 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>02/03/23 22:12</i>	<i>NWTPH-Dx</i>
MW-10 (A3A0977-05)				Matrix: Water		Batch: 23A1120		
Diesel	399	---	190	ug/L	1	02/02/23 09:25	NWTPH-Dx	F-13
Oil	ND	---	381	ug/L	1	02/02/23 09:25	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>02/02/23 09:25</i>	<i>NWTPH-Dx</i>

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A3A0977-01)				Matrix: Water		Batch: 23A1084		
Gasoline Range Organics	ND	---	100	ug/L	1	01/30/23 18:16	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 109 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/30/23 18:16</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>108 %</i>		<i>50-150 %</i>		<i>1</i>	<i>01/30/23 18:16</i>	<i>NWTPH-Gx (MS)</i>
MW-5 (A3A0977-02RE1)				Matrix: Water		Batch: 23A1124		
Gasoline Range Organics	ND	---	100	ug/L	1	01/31/23 20:59	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/31/23 20:59</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>1</i>	<i>01/31/23 20:59</i>	<i>NWTPH-Gx (MS)</i>
MW-8 (A3A0977-03RE1)				Matrix: Water		Batch: 23A1124		
Gasoline Range Organics	ND	---	100	ug/L	1	01/31/23 21:21	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/31/23 21:21</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>104 %</i>		<i>50-150 %</i>		<i>1</i>	<i>01/31/23 21:21</i>	<i>NWTPH-Gx (MS)</i>
MW-9 (A3A0977-04RE1)				Matrix: Water		Batch: 23A1124		
Gasoline Range Organics	ND	---	100	ug/L	1	01/31/23 21:44	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/31/23 21:44</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>1</i>	<i>01/31/23 21:44</i>	<i>NWTPH-Gx (MS)</i>
MW-10 (A3A0977-05RE1)				Matrix: Water		Batch: 23A1124		
Gasoline Range Organics	ND	---	100	ug/L	1	01/31/23 22:06	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/31/23 22:06</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>1</i>	<i>01/31/23 22:06</i>	<i>NWTPH-Gx (MS)</i>

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A3A0977-01)			Matrix: Water			Batch: 23A1084		
Acetone	ND	---	20.0	ug/L	1	01/30/23 18:16	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/30/23 18:16	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/30/23 18:16	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/30/23 18:16	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
sec-Butylbenzene	1.06	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/30/23 18:16	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	01/30/23 18:16	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
			Matrix: Water			Batch: 23A1084		
MW-1 (A3A0977-01)								
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/30/23 18:16	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/30/23 18:16	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/30/23 18:16	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	10.0	ug/L	1	01/30/23 18:16	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Naphthalene	ND	---	4.00	ug/L	1	01/30/23 18:16	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
Styrene	ND	---	2.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
Vinyl chloride	ND	---	0.400	ug/L	1	01/30/23 18:16	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/30/23 18:16	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/30/23 18:16	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	--

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A3A0977-01)				Matrix: Water		Batch: 23A1084		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>	1	01/30/23 18:16	EPA 8260D	
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		80-120 %	1	01/30/23 18:16	EPA 8260D	
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		80-120 %	1	01/30/23 18:16	EPA 8260D	
MW-5 (A3A0977-02RE1)				Matrix: Water		Batch: 23A1124		
Acetone	ND	---	20.0	ug/L	1	01/31/23 20:59	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/31/23 20:59	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/31/23 20:59	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/31/23 20:59	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/31/23 20:59	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	01/31/23 20:59	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	--

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-5 (A3A0977-02RE1)			Matrix: Water			Batch: 23A1124		
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/31/23 20:59	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/31/23 20:59	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/31/23 20:59	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	10.0	ug/L	1	01/31/23 20:59	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/31/23 20:59	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-5 (A3A0977-02RE1)			Matrix: Water			Batch: 23A1124		
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
Vinyl chloride	ND	---	0.400	ug/L	1	01/31/23 20:59	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/31/23 20:59	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/31/23 20:59	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/31/23 20:59</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/31/23 20:59</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/31/23 20:59</i>	<i>EPA 8260D</i>
MW-8 (A3A0977-03RE1)			Matrix: Water			Batch: 23A1124		
Acetone	ND	---	20.0	ug/L	1	01/31/23 21:21	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Benzene	0.280	---	0.200	ug/L	1	01/31/23 21:21	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/31/23 21:21	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/31/23 21:21	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/31/23 21:21	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	01/31/23 21:21	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	--

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
			Matrix: Water			Batch: 23A1124		
MW-8 (A3A0977-03RE1)								
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/31/23 21:21	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/31/23 21:21	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/31/23 21:21	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	01/31/23 21:21	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/31/23 21:21	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-8 (A3A0977-03RE1)			Matrix: Water			Batch: 23A1124		
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
Vinyl chloride	ND	---	0.400	ug/L	1	01/31/23 21:21	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/31/23 21:21	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/31/23 21:21	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 95 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/31/23 21:21</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>105 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/31/23 21:21</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/31/23 21:21</i>	<i>EPA 8260D</i>	
MW-9 (A3A0977-04RE1)			Matrix: Water			Batch: 23A1124		
Acetone	ND	---	20.0	ug/L	1	01/31/23 21:44	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/31/23 21:44	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/31/23 21:44	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/31/23 21:44	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
sec-Butylbenzene	1.19	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/31/23 21:44	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	01/31/23 21:44	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-9 (A3A0977-04RE1)			Matrix: Water			Batch: 23A1124		
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/31/23 21:44	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/31/23 21:44	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/31/23 21:44	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	01/31/23 21:44	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/31/23 21:44	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-9 (A3A0977-04RE1)			Matrix: Water			Batch: 23A1124		
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
Vinyl chloride	ND	---	0.400	ug/L	1	01/31/23 21:44	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/31/23 21:44	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/31/23 21:44	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 92 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/31/23 21:44</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>104 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/31/23 21:44</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/31/23 21:44</i>	<i>EPA 8260D</i>	

MW-10 (A3A0977-05RE1)			Matrix: Water			Batch: 23A1124		
Acetone	ND	---	20.0	ug/L	1	01/31/23 22:06	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/31/23 22:06	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/31/23 22:06	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/31/23 22:06	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/31/23 22:06	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	--

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-10 (A3A0977-05RE1)			Matrix: Water			Batch: 23A1124		
Chloromethane	ND	---	5.00	ug/L	1	01/31/23 22:06	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/31/23 22:06	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/31/23 22:06	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/31/23 22:06	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	01/31/23 22:06	EPA 8260D	
Methyl tert-butyl ether (MTBE)	1.05	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/31/23 22:06	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-10 (A3A0977-05RE1)			Matrix: Water			Batch: 23A1124		
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
Vinyl chloride	ND	---	0.400	ug/L	1	01/31/23 22:06	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/31/23 22:06	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/31/23 22:06	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 95 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/31/23 22:06</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/31/23 22:06</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/31/23 22:06</i>	<i>EPA 8260D</i>	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23A1120 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (23A1120-BLK1)			Prepared: 01/31/23 11:37 Analyzed: 02/01/23 07:00										
<u>NWTPH-Dx</u>													
Diesel	ND	---	200	ug/L	1	---	---	---	---	---	---		
Oil	ND	---	400	ug/L	1	---	---	---	---	---	---		
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 81 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>							
LCS (23A1120-BS1)						Prepared: 01/31/23 11:37 Analyzed: 02/01/23 07:20							
<u>NWTPH-Dx</u>													
Diesel	821	---	200	ug/L	1	1250	---	66	36-132%	---	---		
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 75 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>							
LCS Dup (23A1120-BSD1)						Prepared: 01/31/23 11:37 Analyzed: 02/01/23 07:40							Q-19
<u>NWTPH-Dx</u>													
Diesel	969	---	200	ug/L	1	1250	---	77	36-132%	17	30%		
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>							
Batch 23B0122 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (23B0122-BLK1)			Prepared: 02/03/23 06:41 Analyzed: 02/03/23 19:50										
<u>NWTPH-Dx</u>													
Diesel	ND	---	200	ug/L	1	---	---	---	---	---	---		
Oil	ND	---	400	ug/L	1	---	---	---	---	---	---		
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>							
LCS (23B0122-BS1)						Prepared: 02/03/23 06:41 Analyzed: 02/03/23 20:10							
<u>NWTPH-Dx</u>													
Diesel	909	---	200	ug/L	1	1250	---	73	36-132%	---	---		
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>							
LCS Dup (23B0122-BSD1)						Prepared: 02/03/23 06:41 Analyzed: 02/03/23 20:31							Q-19
<u>NWTPH-Dx</u>													
Diesel	908	---	200	ug/L	1	1250	---	73	36-132%	0.08	30%		
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 75 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>							

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Blank (23A1084-BLK1)			Prepared: 01/30/23 08:28 Analyzed: 01/30/23 15:57									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>106 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23A1084-BS2)			Prepared: 01/30/23 08:28 Analyzed: 01/30/23 15:30									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	537	---	100	ug/L	1	5000	---	11	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>95 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23A1084-DUP1)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 20:58									
<u>QC Source Sample: Non-SDG (A3A0736-01)</u>												
Gasoline Range Organics	3770	---	2000	ug/L	20	---	4040	---	---	7	30%	F-12
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 110 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>108 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23A1084-DUP2)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 22:47									
<u>QC Source Sample: Non-SDG (A3A0736-04)</u>												
Gasoline Range Organics	22000	---	5000	ug/L	50	---	22000	---	---	0.007	30%	F-12
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 111 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>111 %</i>		<i>50-150 %</i>		<i>"</i>						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
Blank (23A1124-BLK1)			Prepared: 01/31/23 12:00 Analyzed: 01/31/23 14:41									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>98 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23A1124-BS2)			Prepared: 01/31/23 12:00 Analyzed: 01/31/23 14:19									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	523	---	100	ug/L	1	500	---	105	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>95 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23A1124-DUP1)			Prepared: 01/31/23 14:29 Analyzed: 01/31/23 16:55									
<u>QC Source Sample: Non-SDG (A3A0844-01RE1)</u>												
Gasoline Range Organics	21100	---	500	ug/L	5	---	23300	---	---	10	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>99 %</i>		<i>50-150 %</i>		<i>"</i>						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Blank (23A1084-BLK1)			Prepared: 01/30/23 08:28 Analyzed: 01/30/23 15:57									
<u>EPA 8260D</u>												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Blank (23A1084-BLK1)			Prepared: 01/30/23 08:28 Analyzed: 01/30/23 15:57									
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Blank (23A1084-BLK1)						Prepared: 01/30/23 08:28 Analyzed: 01/30/23 15:57						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>109 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (23A1084-BS1)						Prepared: 01/30/23 08:28 Analyzed: 01/30/23 14:26						
EPA 8260D												
Acetone	32.9	---	20.0	ug/L	1	40.0	---	82	80-120%	---	---	
Acrylonitrile	15.4	---	2.00	ug/L	1	20.0	---	77	80-120%	---	---	Q-55
Benzene	18.9	---	0.200	ug/L	1	20.0	---	94	80-120%	---	---	
Bromobenzene	18.4	---	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Bromochloromethane	16.6	---	1.00	ug/L	1	20.0	---	83	80-120%	---	---	
Bromodichloromethane	19.3	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Bromoform	23.6	---	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
Bromomethane	19.2	---	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
2-Butanone (MEK)	35.4	---	10.0	ug/L	1	40.0	---	88	80-120%	---	---	
n-Butylbenzene	19.5	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
sec-Butylbenzene	21.2	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
tert-Butylbenzene	21.2	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Carbon disulfide	18.8	---	10.0	ug/L	1	20.0	---	94	80-120%	---	---	
Carbon tetrachloride	22.2	---	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Chlorobenzene	19.7	---	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Chloroethane	21.1	---	5.00	ug/L	1	20.0	---	106	80-120%	---	---	ICV-01
Chloroform	18.6	---	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Chloromethane	15.6	---	5.00	ug/L	1	20.0	---	78	80-120%	---	---	Q-55
2-Chlorotoluene	20.4	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
4-Chlorotoluene	21.8	---	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Dibromochloromethane	21.0	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2-Dibromo-3-chloropropane	19.0	---	5.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.0	---	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Dibromomethane	19.3	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2-Dichlorobenzene	20.8	---	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichlorobenzene	21.3	---	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
1,4-Dichlorobenzene	19.3	---	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Dichlorodifluoromethane	18.9	---	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,1-Dichloroethane	17.8	---	0.400	ug/L	1	20.0	---	89	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
LCS (23A1084-BS1)			Prepared: 01/30/23 08:28 Analyzed: 01/30/23 14:26									
1,2-Dichloroethane (EDC)	19.4	---	0.400	ug/L	1	20.0	---	97	80-120%	---	---	
1,1-Dichloroethene	18.4	---	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
cis-1,2-Dichloroethene	18.7	---	0.400	ug/L	1	20.0	---	93	80-120%	---	---	
trans-1,2-Dichloroethene	18.4	---	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
1,2-Dichloropropane	17.1	---	0.500	ug/L	1	20.0	---	85	80-120%	---	---	
1,3-Dichloropropane	19.8	---	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
2,2-Dichloropropane	19.4	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,1-Dichloropropene	22.4	---	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
cis-1,3-Dichloropropene	18.0	---	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
trans-1,3-Dichloropropene	19.6	---	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Ethylbenzene	21.5	---	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Hexachlorobutadiene	21.3	---	5.00	ug/L	1	20.0	---	106	80-120%	---	---	
2-Hexanone	33.1	---	10.0	ug/L	1	40.0	---	83	80-120%	---	---	
Isopropylbenzene	20.5	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
4-Isopropyltoluene	20.4	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Methylene chloride	18.0	---	10.0	ug/L	1	20.0	---	90	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	35.4	---	10.0	ug/L	1	40.0	---	88	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	22.1	---	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Naphthalene	15.0	---	4.00	ug/L	1	20.0	---	75	80-120%	---	---	Q-55
n-Propylbenzene	20.7	---	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Styrene	19.4	---	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,1,1,2-Tetrachloroethane	22.3	---	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
1,1,2,2-Tetrachloroethane	17.0	---	0.500	ug/L	1	20.0	---	85	80-120%	---	---	
Tetrachloroethene (PCE)	21.2	---	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
Toluene	19.4	---	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,2,3-Trichlorobenzene	17.9	---	2.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2,4-Trichlorobenzene	19.9	---	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,1-Trichloroethane	21.2	---	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,2-Trichloroethane	18.9	---	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Trichloroethene (TCE)	18.9	---	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
Trichlorofluoromethane	21.8	---	2.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,2,3-Trichloropropane	19.2	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,4-Trimethylbenzene	20.8	---	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,3,5-Trimethylbenzene	21.0	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
LCS (23A1084-BS1)			Prepared: 01/30/23 08:28 Analyzed: 01/30/23 14:26									
Vinyl chloride	15.9	---	0.400	ug/L	1	20.0	---	79	80-120%	---	---	Q-55
m,p-Xylene	42.0	---	1.00	ug/L	1	40.0	---	105	80-120%	---	---	
o-Xylene	19.6	---	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23A1084-DUP1)		Prepared: 01/30/23 14:28 Analyzed: 01/30/23 20:58										
QC Source Sample: Non-SDG (A3A0736-01)												
Acetone	ND	---	400	ug/L	20	---	ND	---	---	---	30%	
Acrylonitrile	ND	---	40.0	ug/L	20	---	ND	---	---	---	30%	
Benzene	ND	---	4.00	ug/L	20	---	ND	---	---	---	30%	
Bromobenzene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Bromoform	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Bromomethane	ND	---	100	ug/L	20	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	200	ug/L	20	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	200	ug/L	20	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
Chloroethane	ND	---	100	ug/L	20	---	ND	---	---	---	30%	
Chloroform	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Chloromethane	ND	---	100	ug/L	20	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	100	ug/L	20	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
Dibromomethane	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Duplicate (23A1084-DUP1)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 20:58									
QC Source Sample: Non-SDG (A3A0736-01)												
1,3-Dichlorobenzene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	8.00	ug/L	20	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	8.00	ug/L	20	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	21.0	---	8.00	ug/L	20	---	21.2	---	---	0.9	30%	
trans-1,2-Dichloroethene	ND	---	8.00	ug/L	20	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	100	ug/L	20	---	ND	---	---	---	30%	
2-Hexanone	ND	---	200	ug/L	20	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Methylene chloride	ND	---	200	ug/L	20	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	200	ug/L	20	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Naphthalene	ND	---	80.0	ug/L	20	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
Styrene	ND	---	40.0	ug/L	20	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	1310	---	8.00	ug/L	20	---	1370	---	---	4	30%	
Toluene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	40.0	ug/L	20	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	40.0	ug/L	20	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Duplicate (23A1084-DUP1)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 20:58									
QC Source Sample: Non-SDG (A3A0736-01)												
Trichloroethene (TCE)	45.4	---	8.00	ug/L	20	---	46.4	---	---	2	30%	
Trichlorofluoromethane	ND	---	40.0	ug/L	20	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	8.00	ug/L	20	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	20.0	ug/L	20	---	ND	---	---	---	30%	
o-Xylene	ND	---	10.0	ug/L	20	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23A1084-DUP2)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 22:47									
QC Source Sample: Non-SDG (A3A0736-04)												
Acetone	ND	---	1000	ug/L	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
Benzene	ND	---	10.0	ug/L	50	---	ND	---	---	---	30%	
Bromobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromoform	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromomethane	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroethane	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Chloromethane	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Duplicate (23A1084-DUP2)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 22:47									
QC Source Sample: Non-SDG (A3A0736-04)												
4-Chlorotoluene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Dibromomethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	20.0	ug/L	50	---	17.5	---	---	***	30%	
trans-1,2-Dichloroethene	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	200	ug/L	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Styrene	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C												
Water												
Duplicate (23A1084-DUP2)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 22:47									
QC Source Sample: Non-SDG (A3A0736-04)												
Tetrachloroethene (PCE)	7080	---	20.0	ug/L	50	---	7280	---	---	3	30%	
Toluene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	185	---	20.0	ug/L	50	---	182	---	---	1	30%	
Trichlorofluoromethane	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (23A1084-MS1)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 19:10									
QC Source Sample: Non-SDG (A3A0949-02)												
EPA 8260D												
Acetone	3620	---	20.0	ug/L	1	40.0	4030	-1040	39-160%	---	---	E, Q-03
Acrylonitrile	16.7	---	2.00	ug/L	1	20.0	ND	84	63-135%	---	---	Q-54c
Benzene	19.9	---	0.200	ug/L	1	20.0	ND	99	79-120%	---	---	
Bromobenzene	18.2	---	0.500	ug/L	1	20.0	ND	91	80-120%	---	---	
Bromochloromethane	16.7	---	1.00	ug/L	1	20.0	ND	83	78-123%	---	---	
Bromodichloromethane	20.4	---	1.00	ug/L	1	20.0	ND	102	79-125%	---	---	
Bromoform	25.6	---	1.00	ug/L	1	20.0	1.47	121	66-130%	---	---	
Bromomethane	17.2	---	5.00	ug/L	1	20.0	ND	86	53-141%	---	---	
2-Butanone (MEK)	39.8	---	10.0	ug/L	1	40.0	ND	99	56-143%	---	---	
n-Butylbenzene	22.3	---	1.00	ug/L	1	20.0	ND	112	75-128%	---	---	
sec-Butylbenzene	22.2	---	1.00	ug/L	1	20.0	ND	111	77-126%	---	---	
tert-Butylbenzene	21.5	---	1.00	ug/L	1	20.0	ND	107	78-124%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Matrix Spike (23A1084-MS1)						Prepared: 01/30/23 14:28 Analyzed: 01/30/23 19:10						
QC Source Sample: Non-SDG (A3A0949-02)												
Carbon disulfide	20.0	---	10.0	ug/L	1	20.0	ND	100	64-133%	---	---	
Carbon tetrachloride	23.8	---	1.00	ug/L	1	20.0	ND	119	72-136%	---	---	
Chlorobenzene	20.0	---	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
Chloroethane	22.1	---	5.00	ug/L	1	20.0	ND	110	60-138%	---	---	ICV-01
Chloroform	23.3	---	1.00	ug/L	1	20.0	4.47	94	79-124%	---	---	
Chloromethane	21.1	---	5.00	ug/L	1	20.0	ND	106	50-139%	---	---	Q-54b
2-Chlorotoluene	20.4	---	1.00	ug/L	1	20.0	ND	102	79-122%	---	---	
4-Chlorotoluene	21.5	---	1.00	ug/L	1	20.0	ND	108	78-122%	---	---	
Dibromochloromethane	21.3	---	1.00	ug/L	1	20.0	ND	107	74-126%	---	---	
1,2-Dibromo-3-chloropropane	20.2	---	5.00	ug/L	1	20.0	ND	101	62-128%	---	---	
1,2-Dibromoethane (EDB)	21.3	---	0.500	ug/L	1	20.0	ND	107	77-121%	---	---	
Dibromomethane	20.3	---	1.00	ug/L	1	20.0	ND	102	79-123%	---	---	
1,2-Dichlorobenzene	21.0	---	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
1,3-Dichlorobenzene	21.7	---	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
1,4-Dichlorobenzene	19.5	---	0.500	ug/L	1	20.0	ND	98	79-120%	---	---	
Dichlorodifluoromethane	21.4	---	1.00	ug/L	1	20.0	ND	107	32-152%	---	---	
1,1-Dichloroethane	18.7	---	0.400	ug/L	1	20.0	ND	94	77-125%	---	---	
1,2-Dichloroethane (EDC)	19.7	---	0.400	ug/L	1	20.0	ND	98	73-128%	---	---	
1,1-Dichloroethene	19.9	---	0.400	ug/L	1	20.0	ND	100	71-131%	---	---	
cis-1,2-Dichloroethene	18.6	---	0.400	ug/L	1	20.0	ND	93	78-123%	---	---	
trans-1,2-Dichloroethene	21.7	---	0.400	ug/L	1	20.0	ND	108	75-124%	---	---	
1,2-Dichloropropane	18.4	---	0.500	ug/L	1	20.0	ND	92	78-122%	---	---	
1,3-Dichloropropane	19.8	---	1.00	ug/L	1	20.0	ND	99	80-120%	---	---	
2,2-Dichloropropane	23.4	---	1.00	ug/L	1	20.0	ND	117	60-139%	---	---	
1,1-Dichloropropene	25.2	---	1.00	ug/L	1	20.0	ND	126	79-125%	---	---	Q-01
cis-1,3-Dichloropropene	16.2	---	1.00	ug/L	1	20.0	ND	81	75-124%	---	---	
trans-1,3-Dichloropropene	20.1	---	1.00	ug/L	1	20.0	ND	101	73-127%	---	---	
Ethylbenzene	22.3	---	0.500	ug/L	1	20.0	ND	112	79-121%	---	---	
Hexachlorobutadiene	25.0	---	5.00	ug/L	1	20.0	ND	125	66-134%	---	---	
2-Hexanone	36.4	---	10.0	ug/L	1	40.0	ND	91	57-139%	---	---	
Isopropylbenzene	21.1	---	1.00	ug/L	1	20.0	ND	105	72-131%	---	---	
4-Isopropyltoluene	22.1	---	1.00	ug/L	1	20.0	ND	111	77-127%	---	---	
Methylene chloride	18.4	---	10.0	ug/L	1	20.0	ND	92	74-124%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1084 - EPA 5030C						Water						
Matrix Spike (23A1084-MS1)			Prepared: 01/30/23 14:28 Analyzed: 01/30/23 19:10									
QC Source Sample: Non-SDG (A3A0949-02)												
4-Methyl-2-pentanone (MiBK)	37.1	---	10.0	ug/L	1	40.0	ND	93	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	23.6	---	1.00	ug/L	1	20.0	ND	118	71-124%	---	---	
Naphthalene	15.7	---	4.00	ug/L	1	20.0	ND	78	61-128%	---	---	Q-54d
n-Propylbenzene	21.2	---	0.500	ug/L	1	20.0	ND	106	76-126%	---	---	
Styrene	ND	---	2.00	ug/L	1	20.0	ND	7	78-123%	---	---	Q-01
1,1,1,2-Tetrachloroethane	21.8	---	0.400	ug/L	1	20.0	ND	109	78-124%	---	---	
1,1,1,2,2-Tetrachloroethane	17.1	---	0.500	ug/L	1	20.0	ND	86	71-121%	---	---	
Tetrachloroethene (PCE)	22.9	---	0.400	ug/L	1	20.0	ND	115	74-129%	---	---	
Toluene	19.8	---	0.500	ug/L	1	20.0	ND	99	80-121%	---	---	
1,2,3-Trichlorobenzene	19.5	---	2.00	ug/L	1	20.0	ND	98	69-129%	---	---	
1,2,4-Trichlorobenzene	22.7	---	2.00	ug/L	1	20.0	ND	113	69-130%	---	---	
1,1,1-Trichloroethane	22.7	---	0.400	ug/L	1	20.0	ND	114	74-131%	---	---	
1,1,2-Trichloroethane	19.1	---	0.500	ug/L	1	20.0	ND	96	80-120%	---	---	
Trichloroethene (TCE)	19.6	---	0.400	ug/L	1	20.0	ND	98	79-123%	---	---	
Trichlorofluoromethane	23.8	---	2.00	ug/L	1	20.0	ND	119	65-141%	---	---	
1,2,3-Trichloropropane	18.7	---	1.00	ug/L	1	20.0	ND	94	73-122%	---	---	
1,2,4-Trimethylbenzene	18.1	---	1.00	ug/L	1	20.0	ND	90	76-124%	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	20.0	ND		75-124%	---	---	Q-01
Vinyl chloride	17.8	---	0.400	ug/L	1	20.0	ND	89	58-137%	---	---	Q-54a
m,p-Xylene	42.2	---	1.00	ug/L	1	40.0	ND	106	80-121%	---	---	
o-Xylene	20.4	---	0.500	ug/L	1	20.0	ND	102	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>"</i>						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
Blank (23A1124-BLK1)			Prepared: 01/31/23 12:00 Analyzed: 01/31/23 14:41									
<u>EPA 8260D</u>												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
Blank (23A1124-BLK1)			Prepared: 01/31/23 12:00 Analyzed: 01/31/23 14:41									
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 94 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
Blank (23A1124-BLK1)						Prepared: 01/31/23 12:00 Analyzed: 01/31/23 14:41						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		"						
LCS (23A1124-BS1)						Prepared: 01/31/23 12:00 Analyzed: 01/31/23 13:46						
EPA 8260D												
Acetone	37.8	---	20.0	ug/L	1	40.0	---	94	80-120%	---	---	ICV-01
Acrylonitrile	17.6	---	2.00	ug/L	1	20.0	---	88	80-120%	---	---	
Benzene	18.4	---	0.200	ug/L	1	20.0	---	92	80-120%	---	---	
Bromobenzene	19.4	---	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Bromochloromethane	18.5	---	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
Bromodichloromethane	19.8	---	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Bromoform	21.1	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Bromomethane	21.5	---	5.00	ug/L	1	20.0	---	108	80-120%	---	---	
2-Butanone (MEK)	34.8	---	10.0	ug/L	1	40.0	---	87	80-120%	---	---	ICV-01
n-Butylbenzene	19.4	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
sec-Butylbenzene	20.7	---	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
tert-Butylbenzene	19.8	---	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Carbon disulfide	19.6	---	10.0	ug/L	1	20.0	---	98	80-120%	---	---	
Carbon tetrachloride	21.8	---	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Chlorobenzene	19.0	---	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Chloroethane	21.0	---	5.00	ug/L	1	20.0	---	105	80-120%	---	---	
Chloroform	19.2	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Chloromethane	16.0	---	5.00	ug/L	1	20.0	---	80	80-120%	---	---	
2-Chlorotoluene	19.4	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
4-Chlorotoluene	18.8	---	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Dibromochloromethane	20.9	---	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dibromo-3-chloropropane	17.5	---	5.00	ug/L	1	20.0	---	87	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.7	---	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dibromomethane	18.3	---	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
1,2-Dichlorobenzene	19.9	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,3-Dichlorobenzene	18.8	---	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
1,4-Dichlorobenzene	18.2	---	0.500	ug/L	1	20.0	---	91	80-120%	---	---	
Dichlorodifluoromethane	20.1	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,1-Dichloroethane	18.9	---	0.400	ug/L	1	20.0	---	95	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
LCS (23A1124-BS1)			Prepared: 01/31/23 12:00 Analyzed: 01/31/23 13:46									
1,2-Dichloroethane (EDC)	19.8	---	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
1,1-Dichloroethene	20.6	---	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
cis-1,2-Dichloroethene	18.7	---	0.400	ug/L	1	20.0	---	93	80-120%	---	---	
trans-1,2-Dichloroethene	18.8	---	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
1,2-Dichloropropane	17.7	---	0.500	ug/L	1	20.0	---	89	80-120%	---	---	
1,3-Dichloropropane	20.0	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
2,2-Dichloropropane	18.1	---	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
1,1-Dichloropropene	19.1	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
cis-1,3-Dichloropropene	19.2	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
trans-1,3-Dichloropropene	19.9	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Ethylbenzene	19.8	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Hexachlorobutadiene	20.4	---	5.00	ug/L	1	20.0	---	102	80-120%	---	---	
2-Hexanone	35.1	---	10.0	ug/L	1	40.0	---	88	80-120%	---	---	
Isopropylbenzene	20.9	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Isopropyltoluene	20.2	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Methylene chloride	18.7	---	10.0	ug/L	1	20.0	---	94	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	35.8	---	10.0	ug/L	1	40.0	---	90	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	17.8	---	1.00	ug/L	1	20.0	---	89	80-120%	---	---	
Naphthalene	18.7	---	2.00	ug/L	1	20.0	---	93	80-120%	---	---	
n-Propylbenzene	19.6	---	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Styrene	19.3	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,1,1,2-Tetrachloroethane	19.2	---	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,2,2-Tetrachloroethane	18.6	---	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Tetrachloroethene (PCE)	20.0	---	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
Toluene	19.1	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,3-Trichlorobenzene	19.9	---	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2,4-Trichlorobenzene	18.9	---	2.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,1,1-Trichloroethane	20.4	---	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
1,1,2-Trichloroethane	19.2	---	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Trichloroethene (TCE)	17.7	---	0.400	ug/L	1	20.0	---	88	80-120%	---	---	
Trichlorofluoromethane	24.4	---	2.00	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
1,2,3-Trichloropropane	20.1	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,4-Trimethylbenzene	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,3,5-Trimethylbenzene	20.0	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
LCS (23A1124-BS1)			Prepared: 01/31/23 12:00			Analyzed: 01/31/23 13:46						
Vinyl chloride	19.0	---	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
m,p-Xylene	40.2	---	1.00	ug/L	1	40.0	---	100	80-120%	---	---	
o-Xylene	20.1	---	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (23A1124-DUP1)			Prepared: 01/31/23 14:29			Analyzed: 01/31/23 16:55						
QC Source Sample: Non-SDG (A3A0844-01RE1)												
Acetone	ND	---	100	ug/L	5	---	ND	---	---	---	30%	
Acrylonitrile	ND	---	10.0	ug/L	5	---	ND	---	---	---	30%	
Benzene	234	---	1.00	ug/L	5	---	249	---	---	6	30%	
Bromobenzene	ND	---	2.50	ug/L	5	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
Bromoform	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
Bromomethane	ND	---	25.0	ug/L	5	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	50.0	ug/L	5	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	50.0	ug/L	5	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
Chlorobenzene	8.40	---	2.50	ug/L	5	---	8.95	---	---	6	30%	
Chloroethane	ND	---	25.0	ug/L	5	---	ND	---	---	---	30%	
Chloroform	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
Chloromethane	ND	---	25.0	ug/L	5	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	25.0	ug/L	5	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	2.50	ug/L	5	---	ND	---	---	---	30%	
Dibromomethane	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	2.65	---	2.50	ug/L	5	---	3.05	---	---	14	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
Duplicate (23A1124-DUP1)			Prepared: 01/31/23 14:29 Analyzed: 01/31/23 16:55									
QC Source Sample: Non-SDG (A3A0844-01RE1)												
1,3-Dichlorobenzene	ND	---	2.50	ug/L	5	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	2.50	ug/L	5	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	2.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	2.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	2.00	ug/L	5	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	5.80	---	2.00	ug/L	5	---	6.80	---	---	16	30%	
trans-1,2-Dichloroethene	ND	---	2.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	2.50	ug/L	5	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
Ethylbenzene	236	---	2.50	ug/L	5	---	254	---	---	7	30%	
Hexachlorobutadiene	ND	---	25.0	ug/L	5	---	ND	---	---	---	30%	
2-Hexanone	ND	---	50.0	ug/L	5	---	ND	---	---	---	30%	
Isopropylbenzene	12.5	---	5.00	ug/L	5	---	13.4	---	---	7	30%	
4-Isopropyltoluene	ND	---	5.00	ug/L	5	---	3.30	---	---	***	30%	
Methylene chloride	ND	---	50.0	ug/L	5	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	50.0	ug/L	5	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	5.00	ug/L	5	---	3.15	---	---	***	30%	
Naphthalene	3930	---	10.0	ug/L	5	---	4470	---	---	13	30%	E
n-Propylbenzene	4.05	---	2.50	ug/L	5	---	4.60	---	---	13	30%	
Styrene	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	2.00	ug/L	5	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	2.50	ug/L	5	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	2.00	ug/L	5	---	ND	---	---	---	30%	
Toluene	8.80	---	5.00	ug/L	5	---	9.40	---	---	7	30%	
1,2,3-Trichlorobenzene	ND	---	10.0	ug/L	5	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	10.0	ug/L	5	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	2.00	ug/L	5	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	2.50	ug/L	5	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C												
Water												
Duplicate (23A1124-DUP1)												
Prepared: 01/31/23 14:29 Analyzed: 01/31/23 16:55												
QC Source Sample: Non-SDG (A3A0844-01RE1)												
Trichloroethene (TCE)	ND	---	2.00	ug/L	5	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	10.0	ug/L	5	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	5.00	ug/L	5	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	85.2	---	5.00	ug/L	5	---	89.0	---	---	4	30%	
1,3,5-Trimethylbenzene	23.7	---	5.00	ug/L	5	---	26.1	---	---	10	30%	
Vinyl chloride	3.95	---	2.00	ug/L	5	---	3.90	---	---	1	30%	
m,p-Xylene	158	---	5.00	ug/L	5	---	165	---	---	5	30%	
o-Xylene	95.2	---	2.50	ug/L	5	---	103	---	---	8	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 92% Limits: 80-120% Dilution: 1x												
Toluene-d8 (Surr) 103% 80-120% "												
4-Bromofluorobenzene (Surr) 98% 80-120% "												

Matrix Spike (23A1124-MS1)												
Prepared: 01/31/23 14:29 Analyzed: 01/31/23 18:46												
QC Source Sample: Non-SDG (A3A0981-02)												
EPA 8260D												
Acetone	3420	---	20.0	ug/L	1	40.0	3000	1060	39-160%	---	---	E, ICV-01, Q-03
Acrylonitrile	20.8	---	2.00	ug/L	1	20.0	ND	104	63-135%	---	---	
Benzene	20.9	---	0.200	ug/L	1	20.0	ND	104	79-120%	---	---	
Bromobenzene	21.0	---	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
Bromochloromethane	21.7	---	1.00	ug/L	1	20.0	ND	108	78-123%	---	---	
Bromodichloromethane	22.2	---	1.00	ug/L	1	20.0	ND	111	79-125%	---	---	
Bromoform	22.6	---	1.00	ug/L	1	20.0	ND	113	66-130%	---	---	
Bromomethane	22.2	---	5.00	ug/L	1	20.0	ND	111	53-141%	---	---	
2-Butanone (MEK)	41.2	---	10.0	ug/L	1	40.0	ND	103	56-143%	---	---	ICV-01
n-Butylbenzene	24.3	---	1.00	ug/L	1	20.0	ND	121	75-128%	---	---	
sec-Butylbenzene	24.1	---	1.00	ug/L	1	20.0	ND	121	77-126%	---	---	
tert-Butylbenzene	22.4	---	1.00	ug/L	1	20.0	ND	112	78-124%	---	---	
Carbon disulfide	23.2	---	10.0	ug/L	1	20.0	ND	116	64-133%	---	---	
Carbon tetrachloride	25.4	---	1.00	ug/L	1	20.0	ND	127	72-136%	---	---	
Chlorobenzene	20.8	---	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
Chloroethane	26.0	---	5.00	ug/L	1	20.0	ND	130	60-138%	---	---	
Chloroform	26.3	---	1.00	ug/L	1	20.0	4.42	109	79-124%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental	Project: Bretthauer	
PO Box 1604	Project Number: [none]	Report ID:
Beaverton, OR 97075	Project Manager: Dave Samples	A3A0977 - 02 09 23 0718

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
Matrix Spike (23A1124-MS1)			Prepared: 01/31/23 14:29 Analyzed: 01/31/23 18:46									
QC Source Sample: Non-SDG (A3A0981-02)												
Chloromethane	19.4	---	5.00	ug/L	1	20.0	ND	97	50-139%	---	---	
2-Chlorotoluene	21.8	---	1.00	ug/L	1	20.0	ND	109	79-122%	---	---	
4-Chlorotoluene	20.6	---	1.00	ug/L	1	20.0	ND	103	78-122%	---	---	
Dibromochloromethane	22.3	---	1.00	ug/L	1	20.0	ND	112	74-126%	---	---	
1,2-Dibromo-3-chloropropane	20.5	---	5.00	ug/L	1	20.0	ND	103	62-128%	---	---	
1,2-Dibromoethane (EDB)	21.5	---	0.500	ug/L	1	20.0	ND	108	77-121%	---	---	
Dibromomethane	20.8	---	1.00	ug/L	1	20.0	ND	104	79-123%	---	---	
1,2-Dichlorobenzene	21.7	---	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
1,3-Dichlorobenzene	21.0	---	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
1,4-Dichlorobenzene	20.6	---	0.500	ug/L	1	20.0	ND	103	79-120%	---	---	
Dichlorodifluoromethane	24.2	---	1.00	ug/L	1	20.0	ND	121	32-152%	---	---	
1,1-Dichloroethane	21.8	---	0.400	ug/L	1	20.0	ND	109	77-125%	---	---	
1,2-Dichloroethane (EDC)	22.2	---	0.400	ug/L	1	20.0	ND	111	73-128%	---	---	
1,1-Dichloroethene	24.4	---	0.400	ug/L	1	20.0	ND	122	71-131%	---	---	
cis-1,2-Dichloroethene	21.3	---	0.400	ug/L	1	20.0	ND	107	78-123%	---	---	
trans-1,2-Dichloroethene	22.6	---	0.400	ug/L	1	20.0	ND	113	75-124%	---	---	
1,2-Dichloropropane	20.4	---	0.500	ug/L	1	20.0	ND	102	78-122%	---	---	
1,3-Dichloropropane	21.8	---	1.00	ug/L	1	20.0	ND	109	80-120%	---	---	
2,2-Dichloropropane	22.8	---	1.00	ug/L	1	20.0	ND	114	60-139%	---	---	
1,1-Dichloropropene	22.0	---	1.00	ug/L	1	20.0	ND	110	79-125%	---	---	
cis-1,3-Dichloropropene	21.3	---	1.00	ug/L	1	20.0	ND	106	75-124%	---	---	
trans-1,3-Dichloropropene	22.7	---	1.00	ug/L	1	20.0	ND	113	73-127%	---	---	
Ethylbenzene	22.3	---	0.500	ug/L	1	20.0	ND	112	79-121%	---	---	
Hexachlorobutadiene	23.8	---	5.00	ug/L	1	20.0	ND	119	66-134%	---	---	
2-Hexanone	41.4	---	10.0	ug/L	1	40.0	ND	103	57-139%	---	---	
Isopropylbenzene	23.2	---	1.00	ug/L	1	20.0	ND	116	72-131%	---	---	
4-Isopropyltoluene	23.4	---	1.00	ug/L	1	20.0	ND	117	77-127%	---	---	
Methylene chloride	20.8	---	10.0	ug/L	1	20.0	ND	104	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	42.0	---	10.0	ug/L	1	40.0	ND	105	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	19.7	---	1.00	ug/L	1	20.0	ND	98	71-124%	---	---	
Naphthalene	22.5	---	2.00	ug/L	1	20.0	ND	105	61-128%	---	---	
n-Propylbenzene	22.8	---	0.500	ug/L	1	20.0	ND	114	76-126%	---	---	
Styrene	ND	---	1.00	ug/L	1	20.0	ND		78-123%	---	---	Q-02

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A1124 - EPA 5030C						Water						
Matrix Spike (23A1124-MS1)			Prepared: 01/31/23 14:29 Analyzed: 01/31/23 18:46									
QC Source Sample: Non-SDG (A3A0981-02)												
1,1,1,2-Tetrachloroethane	20.0	---	0.400	ug/L	1	20.0	ND	100	78-124%	---	---	
1,1,2,2-Tetrachloroethane	21.6	---	0.500	ug/L	1	20.0	ND	108	71-121%	---	---	
Tetrachloroethene (PCE)	22.2	---	0.400	ug/L	1	20.0	ND	111	74-129%	---	---	
Toluene	21.2	---	1.00	ug/L	1	20.0	ND	106	80-121%	---	---	
1,2,3-Trichlorobenzene	22.5	---	2.00	ug/L	1	20.0	ND	112	69-129%	---	---	
1,2,4-Trichlorobenzene	21.8	---	2.00	ug/L	1	20.0	ND	109	69-130%	---	---	
1,1,1-Trichloroethane	23.4	---	0.400	ug/L	1	20.0	ND	117	74-131%	---	---	
1,1,2-Trichloroethane	21.4	---	0.500	ug/L	1	20.0	ND	107	80-120%	---	---	
Trichloroethene (TCE)	19.0	---	0.400	ug/L	1	20.0	ND	95	79-123%	---	---	
Trichlorofluoromethane	28.5	---	2.00	ug/L	1	20.0	ND	142	65-141%	---	---	Q-54
1,2,3-Trichloropropane	23.0	---	1.00	ug/L	1	20.0	ND	115	73-122%	---	---	
1,2,4-Trimethylbenzene	16.4	---	1.00	ug/L	1	20.0	ND	82	76-124%	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	20.0	ND		75-124%	---	---	Q-02
Vinyl chloride	21.6	---	0.400	ug/L	1	20.0	ND	108	58-137%	---	---	
m,p-Xylene	42.0	---	1.00	ug/L	1	40.0	ND	105	80-121%	---	---	
o-Xylene	21.8	---	0.500	ug/L	1	20.0	ND	109	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)						Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
<u>Batch: 23A1120</u>								
A3A0977-05	Water	NWTPH-Dx	01/28/23 00:00	01/31/23 11:38	1050mL/5mL	1000mL/5mL	0.95	
<u>Batch: 23B0122</u>								
A3A0977-01	Water	NWTPH-Dx	01/28/23 00:00	02/03/23 06:41	1000mL/5mL	1000mL/5mL	1.00	
A3A0977-02	Water	NWTPH-Dx	01/28/23 00:00	02/03/23 06:41	1040mL/5mL	1000mL/5mL	0.96	
A3A0977-03	Water	NWTPH-Dx	01/28/23 00:00	02/03/23 06:41	1040mL/5mL	1000mL/5mL	0.96	
A3A0977-04	Water	NWTPH-Dx	01/28/23 00:00	02/03/23 06:41	1060mL/5mL	1000mL/5mL	0.94	

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030C						Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
<u>Batch: 23A1084</u>								
A3A0977-01	Water	NWTPH-Gx (MS)	01/28/23 00:00	01/30/23 14:28	5mL/5mL	5mL/5mL	1.00	
<u>Batch: 23A1124</u>								
A3A0977-02RE1	Water	NWTPH-Gx (MS)	01/28/23 00:00	01/31/23 14:29	5mL/5mL	5mL/5mL	1.00	
A3A0977-03RE1	Water	NWTPH-Gx (MS)	01/28/23 00:00	01/31/23 14:29	5mL/5mL	5mL/5mL	1.00	
A3A0977-04RE1	Water	NWTPH-Gx (MS)	01/28/23 00:00	01/31/23 14:29	5mL/5mL	5mL/5mL	1.00	
A3A0977-05RE1	Water	NWTPH-Gx (MS)	01/28/23 00:00	01/31/23 14:29	5mL/5mL	5mL/5mL	1.00	

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C						Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
<u>Batch: 23A1084</u>								
A3A0977-01	Water	EPA 8260D	01/28/23 00:00	01/30/23 14:28	5mL/5mL	5mL/5mL	1.00	
<u>Batch: 23A1124</u>								
A3A0977-02RE1	Water	EPA 8260D	01/28/23 00:00	01/31/23 14:29	5mL/5mL	5mL/5mL	1.00	
A3A0977-03RE1	Water	EPA 8260D	01/28/23 00:00	01/31/23 14:29	5mL/5mL	5mL/5mL	1.00	
A3A0977-04RE1	Water	EPA 8260D	01/28/23 00:00	01/31/23 14:29	5mL/5mL	5mL/5mL	1.00	
A3A0977-05RE1	Water	EPA 8260D	01/28/23 00:00	01/31/23 14:29	5mL/5mL	5mL/5mL	1.00	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental

PO Box 1604
Beaverton, OR 97075

Project: Bretthauer

Project Number: [none]

Project Manager: Dave Samples

Report ID:

A3A0977 - 02 09 23 0718

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- E Estimated Value. The result is above the calibration range of the instrument.
- F-11 The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- F-12 The result for this hydrocarbon range is primarily due to the presence of individual analyte peaks in the quantitation range. No fuel pattern detected.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- ICV-01 Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-02 Spike recovery is outside of established control limits due to matrix interference.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
- Q-54b Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.
- Q-54c Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -3%. The results are reported as Estimated Values.
- Q-54d Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -5%. The results are reported as Estimated Values.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	---

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (Evergreen Environmental), Project (Bretthauer), and Report ID (A3A0977 - 02 09 23 0718)

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Handwritten signature of Darwin Thomas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (Evergreen Environmental), Project (Bretthauer), and Report ID (A3A0977 - 02 09 23 0718)

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Handwritten signature of Darwin Thomas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	--

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: Evergreen Project Mgr: David Samples Project Name: Bretthauer
Address: Box 1604 Beaverton Phone: 503 784 5414 Email: _____

Sampled by: _____
Site Location: _____

State: OR County: WA

Lab # A3A0977 of 1

Project #: _____
PO #: _____

CHAIN OF CUSTODY

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-CID	NWTPH-DX	NWTPH-GX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13) Al, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, TL, V, Zn, TCLP	TCLP Metals (8) TOTAL DISS. TCLP	Hold Sample	Frozen Archive	
																					ANALYSIS REQUEST
MW-1	1/20/23		W	5	X	X	X	X	X	X	X	X	X								
MW-5					X	X	X	X	X	X	X	X	X								
MW-6					X	X	X	X	X	X	X	X	X								
MW-9					X	X	X	X	X	X	X	X	X								
MW-10					X	X	X	X	X	X	X	X	X								

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: <u>David Samples 13023</u> Date: <u>1-30-23</u> Printed Name: <u>Dave Samples</u> Time: <u>10:07</u> Company: <u>ETM</u>	RECEIVED BY: Signature: _____ Date: _____ Printed Name: _____ Time: _____ Company: _____
---	---

SPECIAL INSTRUCTIONS:

Form Y-002 R-00

Apex Laboratories

Darwin Thomas, Business Development Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Evergreen Environmental PO Box 1604 Beaverton, OR 97075	Project: Bretthauer Project Number: [none] Project Manager: Dave Samples	Report ID: A3A0977 - 02 09 23 0718
--	--	--

APEX LABS COOLER RECEIPT FORM

Client: Ever green Element WO#: A3A0977

Project/Project #: Bretthauer

Delivery Info:
 Date/time received: 1-30-23 @ 1007 By: DJS
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 1-30-23 @ 1008 By: DJS
 Chain of Custody included? Yes No
 Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>5.8</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No
 Out of temperature samples form initiated? Yes No
Sample Inspection: Date/time inspected: 1/31/23 @ 11:14 By: AAW
 All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: No date/time on containers and no time on CoC

COC/container discrepancies form initiated? Yes No
 Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA
 Comments: NW-1: 1/3 have HS, MW-5 2/3 have Sed

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA
 Comments: _____

Additional information:

Labeled by: AAW Witness: AAW Cooler Inspected by: AAW
Form Y-003 R-00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director