

Cascade Corporation- Fairview, OR

Sample Delivery Group: L1313435
Samples Received: 02/03/2021
Project Number: NG0564S20
Description: Cascade TSA CTS

Report To: Cindy Bartlett
2201 NE 201st Avenue
Fairview, OR 97024-9718

Entire Report Reviewed By:



Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SAMPLE SUMMARY



TS-C-EFF-020221 L1313435-01 GW

Collected by Pat Yadon
 Collected date/time 02/02/21 09:17
 Received date/time 02/03/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1616659	1	02/04/21 18:17	02/04/21 18:17	ADM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TS-C-EFF-020221-DUP L1313435-02 GW

Collected by Pat Yadon
 Collected date/time 02/02/21 09:18
 Received date/time 02/03/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1616659	1	02/04/21 18:38	02/04/21 18:38	ADM	Mt. Juliet, TN

TS-C-INF-020221 L1313435-03 GW

Collected by Pat Yadon
 Collected date/time 02/02/21 09:25
 Received date/time 02/03/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1616659	1	02/04/21 19:00	02/04/21 19:00	ADM	Mt. Juliet, TN

TRIP BLANK LOT # 460 L1313435-04 GW

Collected by Pat Yadon
 Collected date/time 02/02/21 00:00
 Received date/time 02/03/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1616659	1	02/04/21 17:33	02/04/21 17:33	ADM	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND	C3	25.0	1	02/04/2021 18:17	WG1616659
Acrolein	ND		50.0	1	02/04/2021 18:17	WG1616659
Acrylonitrile	ND		5.00	1	02/04/2021 18:17	WG1616659
Benzene	ND		0.500	1	02/04/2021 18:17	WG1616659
Bromobenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
Bromodichloromethane	ND		0.500	1	02/04/2021 18:17	WG1616659
Bromoform	ND		0.500	1	02/04/2021 18:17	WG1616659
Bromomethane	ND		2.50	1	02/04/2021 18:17	WG1616659
n-Butylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
sec-Butylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
tert-Butylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
Carbon disulfide	ND		0.500	1	02/04/2021 18:17	WG1616659
Carbon tetrachloride	ND		0.500	1	02/04/2021 18:17	WG1616659
Chlorobenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
Chlorodibromomethane	ND		0.500	1	02/04/2021 18:17	WG1616659
Chloroethane	ND		2.50	1	02/04/2021 18:17	WG1616659
Chloroform	ND		0.500	1	02/04/2021 18:17	WG1616659
Chloromethane	ND		1.25	1	02/04/2021 18:17	WG1616659
2-Chlorotoluene	ND		0.500	1	02/04/2021 18:17	WG1616659
4-Chlorotoluene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,2-Dibromo-3-Chloropropane	ND		2.50	1	02/04/2021 18:17	WG1616659
1,2-Dibromoethane	ND		0.500	1	02/04/2021 18:17	WG1616659
Dibromomethane	ND		0.500	1	02/04/2021 18:17	WG1616659
1,2-Dichlorobenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,3-Dichlorobenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,4-Dichlorobenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
Dichlorodifluoromethane	ND		2.50	1	02/04/2021 18:17	WG1616659
1,1-Dichloroethane	ND		0.500	1	02/04/2021 18:17	WG1616659
1,2-Dichloroethane	ND		0.500	1	02/04/2021 18:17	WG1616659
1,1-Dichloroethene	ND		0.500	1	02/04/2021 18:17	WG1616659
cis-1,2-Dichloroethene	ND		0.500	1	02/04/2021 18:17	WG1616659
trans-1,2-Dichloroethene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,2-Dichloropropane	ND		0.500	1	02/04/2021 18:17	WG1616659
1,1-Dichloropropene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,3-Dichloropropane	ND		1.00	1	02/04/2021 18:17	WG1616659
cis-1,3-Dichloropropene	ND		0.500	1	02/04/2021 18:17	WG1616659
trans-1,3-Dichloropropene	ND		0.500	1	02/04/2021 18:17	WG1616659
2,2-Dichloropropane	ND		0.500	1	02/04/2021 18:17	WG1616659
Di-isopropyl ether	ND	C3	0.500	1	02/04/2021 18:17	WG1616659
Ethylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
Hexachloro-1,3-butadiene	ND		1.00	1	02/04/2021 18:17	WG1616659
Isopropylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
p-Isopropyltoluene	ND		0.500	1	02/04/2021 18:17	WG1616659
2-Butanone (MEK)	ND	C3	5.00	1	02/04/2021 18:17	WG1616659
Methylene Chloride	ND		2.50	1	02/04/2021 18:17	WG1616659
4-Methyl-2-pentanone (MIBK)	ND	C3 J4	5.00	1	02/04/2021 18:17	WG1616659
Methyl tert-butyl ether	ND		0.500	1	02/04/2021 18:17	WG1616659
Naphthalene	ND		2.50	1	02/04/2021 18:17	WG1616659
n-Propylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
Styrene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,1,1,2-Tetrachloroethane	ND		0.500	1	02/04/2021 18:17	WG1616659
1,1,2,2-Tetrachloroethane	ND		0.500	1	02/04/2021 18:17	WG1616659
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	02/04/2021 18:17	WG1616659
Tetrachloroethene	ND		0.500	1	02/04/2021 18:17	WG1616659
Toluene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,2,3-Trichlorobenzene	ND		0.500	1	02/04/2021 18:17	WG1616659

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	02/04/2021 18:17	WG1616659
1,1,1-Trichloroethane	ND		0.500	1	02/04/2021 18:17	WG1616659
1,1,2-Trichloroethane	ND		0.500	1	02/04/2021 18:17	WG1616659
Trichloroethene	ND		0.500	1	02/04/2021 18:17	WG1616659
Trichlorofluoromethane	ND		2.50	1	02/04/2021 18:17	WG1616659
1,2,3-Trichloropropane	ND		2.50	1	02/04/2021 18:17	WG1616659
1,2,4-Trimethylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,2,3-Trimethylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
1,3,5-Trimethylbenzene	ND		0.500	1	02/04/2021 18:17	WG1616659
Vinyl chloride	ND		0.500	1	02/04/2021 18:17	WG1616659
Xylenes, Total	ND		1.50	1	02/04/2021 18:17	WG1616659
(S) Toluene-d8	104		80.0-120		02/04/2021 18:17	WG1616659
(S) 4-Bromofluorobenzene	93.9		77.0-126		02/04/2021 18:17	WG1616659
(S) 1,2-Dichloroethane-d4	90.8		70.0-130		02/04/2021 18:17	WG1616659

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND	C3	25.0	1	02/04/2021 18:38	WG1616659
Acrolein	ND		50.0	1	02/04/2021 18:38	WG1616659
Acrylonitrile	ND		5.00	1	02/04/2021 18:38	WG1616659
Benzene	ND		0.500	1	02/04/2021 18:38	WG1616659
Bromobenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
Bromodichloromethane	ND		0.500	1	02/04/2021 18:38	WG1616659
Bromoform	ND		0.500	1	02/04/2021 18:38	WG1616659
Bromomethane	ND		2.50	1	02/04/2021 18:38	WG1616659
n-Butylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
sec-Butylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
tert-Butylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
Carbon disulfide	ND		0.500	1	02/04/2021 18:38	WG1616659
Carbon tetrachloride	ND		0.500	1	02/04/2021 18:38	WG1616659
Chlorobenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
Chlorodibromomethane	ND		0.500	1	02/04/2021 18:38	WG1616659
Chloroethane	ND		2.50	1	02/04/2021 18:38	WG1616659
Chloroform	ND		0.500	1	02/04/2021 18:38	WG1616659
Chloromethane	ND		1.25	1	02/04/2021 18:38	WG1616659
2-Chlorotoluene	ND		0.500	1	02/04/2021 18:38	WG1616659
4-Chlorotoluene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,2-Dibromo-3-Chloropropane	ND		2.50	1	02/04/2021 18:38	WG1616659
1,2-Dibromoethane	ND		0.500	1	02/04/2021 18:38	WG1616659
Dibromomethane	ND		0.500	1	02/04/2021 18:38	WG1616659
1,2-Dichlorobenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,3-Dichlorobenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,4-Dichlorobenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
Dichlorodifluoromethane	ND		2.50	1	02/04/2021 18:38	WG1616659
1,1-Dichloroethane	ND		0.500	1	02/04/2021 18:38	WG1616659
1,2-Dichloroethane	ND		0.500	1	02/04/2021 18:38	WG1616659
1,1-Dichloroethene	ND		0.500	1	02/04/2021 18:38	WG1616659
cis-1,2-Dichloroethene	ND		0.500	1	02/04/2021 18:38	WG1616659
trans-1,2-Dichloroethene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,2-Dichloropropane	ND		0.500	1	02/04/2021 18:38	WG1616659
1,1-Dichloropropene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,3-Dichloropropane	ND		1.00	1	02/04/2021 18:38	WG1616659
cis-1,3-Dichloropropene	ND		0.500	1	02/04/2021 18:38	WG1616659
trans-1,3-Dichloropropene	ND		0.500	1	02/04/2021 18:38	WG1616659
2,2-Dichloropropane	ND		0.500	1	02/04/2021 18:38	WG1616659
Di-isopropyl ether	ND	C3	0.500	1	02/04/2021 18:38	WG1616659
Ethylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
Hexachloro-1,3-butadiene	ND		1.00	1	02/04/2021 18:38	WG1616659
Isopropylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
p-Isopropyltoluene	ND		0.500	1	02/04/2021 18:38	WG1616659
2-Butanone (MEK)	ND	C3	5.00	1	02/04/2021 18:38	WG1616659
Methylene Chloride	ND		2.50	1	02/04/2021 18:38	WG1616659
4-Methyl-2-pentanone (MIBK)	ND	C3 J4	5.00	1	02/04/2021 18:38	WG1616659
Methyl tert-butyl ether	ND		0.500	1	02/04/2021 18:38	WG1616659
Naphthalene	ND		2.50	1	02/04/2021 18:38	WG1616659
n-Propylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
Styrene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,1,1,2-Tetrachloroethane	ND		0.500	1	02/04/2021 18:38	WG1616659
1,1,2,2-Tetrachloroethane	ND		0.500	1	02/04/2021 18:38	WG1616659
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	02/04/2021 18:38	WG1616659
Tetrachloroethene	ND		0.500	1	02/04/2021 18:38	WG1616659
Toluene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,2,3-Trichlorobenzene	ND		0.500	1	02/04/2021 18:38	WG1616659

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	02/04/2021 18:38	WG1616659
1,1,1-Trichloroethane	ND		0.500	1	02/04/2021 18:38	WG1616659
1,1,2-Trichloroethane	ND		0.500	1	02/04/2021 18:38	WG1616659
Trichloroethene	ND		0.500	1	02/04/2021 18:38	WG1616659
Trichlorofluoromethane	ND		2.50	1	02/04/2021 18:38	WG1616659
1,2,3-Trichloropropane	ND		2.50	1	02/04/2021 18:38	WG1616659
1,2,4-Trimethylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,2,3-Trimethylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
1,3,5-Trimethylbenzene	ND		0.500	1	02/04/2021 18:38	WG1616659
Vinyl chloride	ND		0.500	1	02/04/2021 18:38	WG1616659
Xylenes, Total	ND		1.50	1	02/04/2021 18:38	WG1616659
(S) Toluene-d8	101		80.0-120		02/04/2021 18:38	WG1616659
(S) 4-Bromofluorobenzene	92.1		77.0-126		02/04/2021 18:38	WG1616659
(S) 1,2-Dichloroethane-d4	91.1		70.0-130		02/04/2021 18:38	WG1616659

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l			
Acetone	ND	<u>C3</u>	25.0	1	02/04/2021 19:00	WG1616659
Acrolein	ND		50.0	1	02/04/2021 19:00	WG1616659
Acrylonitrile	ND		5.00	1	02/04/2021 19:00	WG1616659
Benzene	ND		0.500	1	02/04/2021 19:00	WG1616659
Bromobenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
Bromodichloromethane	ND		0.500	1	02/04/2021 19:00	WG1616659
Bromoform	ND		0.500	1	02/04/2021 19:00	WG1616659
Bromomethane	ND		2.50	1	02/04/2021 19:00	WG1616659
n-Butylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
sec-Butylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
tert-Butylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
Carbon disulfide	ND		0.500	1	02/04/2021 19:00	WG1616659
Carbon tetrachloride	ND		0.500	1	02/04/2021 19:00	WG1616659
Chlorobenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
Chlorodibromomethane	ND		0.500	1	02/04/2021 19:00	WG1616659
Chloroethane	ND		2.50	1	02/04/2021 19:00	WG1616659
Chloroform	ND		0.500	1	02/04/2021 19:00	WG1616659
Chloromethane	ND		1.25	1	02/04/2021 19:00	WG1616659
2-Chlorotoluene	ND		0.500	1	02/04/2021 19:00	WG1616659
4-Chlorotoluene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,2-Dibromo-3-Chloropropane	ND		2.50	1	02/04/2021 19:00	WG1616659
1,2-Dibromoethane	ND		0.500	1	02/04/2021 19:00	WG1616659
Dibromomethane	ND		0.500	1	02/04/2021 19:00	WG1616659
1,2-Dichlorobenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,3-Dichlorobenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,4-Dichlorobenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
Dichlorodifluoromethane	ND		2.50	1	02/04/2021 19:00	WG1616659
1,1-Dichloroethane	ND		0.500	1	02/04/2021 19:00	WG1616659
1,2-Dichloroethane	ND		0.500	1	02/04/2021 19:00	WG1616659
1,1-Dichloroethene	ND		0.500	1	02/04/2021 19:00	WG1616659
cis-1,2-Dichloroethene	0.542		0.500	1	02/04/2021 19:00	WG1616659
trans-1,2-Dichloroethene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,2-Dichloropropane	ND		0.500	1	02/04/2021 19:00	WG1616659
1,1-Dichloropropene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,3-Dichloropropane	ND		1.00	1	02/04/2021 19:00	WG1616659
cis-1,3-Dichloropropene	ND		0.500	1	02/04/2021 19:00	WG1616659
trans-1,3-Dichloropropene	ND		0.500	1	02/04/2021 19:00	WG1616659
2,2-Dichloropropane	ND		0.500	1	02/04/2021 19:00	WG1616659
Di-isopropyl ether	ND	<u>C3</u>	0.500	1	02/04/2021 19:00	WG1616659
Ethylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
Hexachloro-1,3-butadiene	ND		1.00	1	02/04/2021 19:00	WG1616659
Isopropylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
p-Isopropyltoluene	ND		0.500	1	02/04/2021 19:00	WG1616659
2-Butanone (MEK)	ND	<u>C3</u>	5.00	1	02/04/2021 19:00	WG1616659
Methylene Chloride	ND		2.50	1	02/04/2021 19:00	WG1616659
4-Methyl-2-pentanone (MIBK)	ND	<u>C3 J4</u>	5.00	1	02/04/2021 19:00	WG1616659
Methyl tert-butyl ether	ND		0.500	1	02/04/2021 19:00	WG1616659
Naphthalene	ND		2.50	1	02/04/2021 19:00	WG1616659
n-Propylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
Styrene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,1,1,2-Tetrachloroethane	ND		0.500	1	02/04/2021 19:00	WG1616659
1,1,2,2-Tetrachloroethane	ND		0.500	1	02/04/2021 19:00	WG1616659
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	02/04/2021 19:00	WG1616659
Tetrachloroethene	ND		0.500	1	02/04/2021 19:00	WG1616659
Toluene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,2,3-Trichlorobenzene	ND		0.500	1	02/04/2021 19:00	WG1616659

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	02/04/2021 19:00	WG1616659
1,1,1-Trichloroethane	ND		0.500	1	02/04/2021 19:00	WG1616659
1,1,2-Trichloroethane	ND		0.500	1	02/04/2021 19:00	WG1616659
Trichloroethene	4.97		0.500	1	02/04/2021 19:00	WG1616659
Trichlorofluoromethane	ND		2.50	1	02/04/2021 19:00	WG1616659
1,2,3-Trichloropropane	ND		2.50	1	02/04/2021 19:00	WG1616659
1,2,4-Trimethylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,2,3-Trimethylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
1,3,5-Trimethylbenzene	ND		0.500	1	02/04/2021 19:00	WG1616659
Vinyl chloride	ND		0.500	1	02/04/2021 19:00	WG1616659
Xylenes, Total	ND		1.50	1	02/04/2021 19:00	WG1616659
(S) Toluene-d8	100		80.0-120		02/04/2021 19:00	WG1616659
(S) 4-Bromofluorobenzene	90.5		77.0-126		02/04/2021 19:00	WG1616659
(S) 1,2-Dichloroethane-d4	91.3		70.0-130		02/04/2021 19:00	WG1616659

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND	C3	25.0	1	02/04/2021 17:33	WG1616659
Acrolein	ND		50.0	1	02/04/2021 17:33	WG1616659
Acrylonitrile	ND		5.00	1	02/04/2021 17:33	WG1616659
Benzene	ND		0.500	1	02/04/2021 17:33	WG1616659
Bromobenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
Bromodichloromethane	ND		0.500	1	02/04/2021 17:33	WG1616659
Bromoform	ND		0.500	1	02/04/2021 17:33	WG1616659
Bromomethane	ND		2.50	1	02/04/2021 17:33	WG1616659
n-Butylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
sec-Butylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
tert-Butylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
Carbon disulfide	ND		0.500	1	02/04/2021 17:33	WG1616659
Carbon tetrachloride	ND		0.500	1	02/04/2021 17:33	WG1616659
Chlorobenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
Chlorodibromomethane	ND		0.500	1	02/04/2021 17:33	WG1616659
Chloroethane	ND		2.50	1	02/04/2021 17:33	WG1616659
Chloroform	ND		0.500	1	02/04/2021 17:33	WG1616659
Chloromethane	ND		1.25	1	02/04/2021 17:33	WG1616659
2-Chlorotoluene	ND		0.500	1	02/04/2021 17:33	WG1616659
4-Chlorotoluene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,2-Dibromo-3-Chloropropane	ND		2.50	1	02/04/2021 17:33	WG1616659
1,2-Dibromoethane	ND		0.500	1	02/04/2021 17:33	WG1616659
Dibromomethane	ND		0.500	1	02/04/2021 17:33	WG1616659
1,2-Dichlorobenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,3-Dichlorobenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,4-Dichlorobenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
Dichlorodifluoromethane	ND		2.50	1	02/04/2021 17:33	WG1616659
1,1-Dichloroethane	ND		0.500	1	02/04/2021 17:33	WG1616659
1,2-Dichloroethane	ND		0.500	1	02/04/2021 17:33	WG1616659
1,1-Dichloroethene	ND		0.500	1	02/04/2021 17:33	WG1616659
cis-1,2-Dichloroethene	ND		0.500	1	02/04/2021 17:33	WG1616659
trans-1,2-Dichloroethene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,2-Dichloropropane	ND		0.500	1	02/04/2021 17:33	WG1616659
1,1-Dichloropropene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,3-Dichloropropane	ND		1.00	1	02/04/2021 17:33	WG1616659
cis-1,3-Dichloropropene	ND		0.500	1	02/04/2021 17:33	WG1616659
trans-1,3-Dichloropropene	ND		0.500	1	02/04/2021 17:33	WG1616659
2,2-Dichloropropane	ND		0.500	1	02/04/2021 17:33	WG1616659
Di-isopropyl ether	ND	C3	0.500	1	02/04/2021 17:33	WG1616659
Ethylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
Hexachloro-1,3-butadiene	ND		1.00	1	02/04/2021 17:33	WG1616659
Isopropylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
p-Isopropyltoluene	ND		0.500	1	02/04/2021 17:33	WG1616659
2-Butanone (MEK)	ND	C3	5.00	1	02/04/2021 17:33	WG1616659
Methylene Chloride	ND		2.50	1	02/04/2021 17:33	WG1616659
4-Methyl-2-pentanone (MIBK)	ND	C3 J4	5.00	1	02/04/2021 17:33	WG1616659
Methyl tert-butyl ether	ND		0.500	1	02/04/2021 17:33	WG1616659
Naphthalene	ND		2.50	1	02/04/2021 17:33	WG1616659
n-Propylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
Styrene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,1,1,2-Tetrachloroethane	ND		0.500	1	02/04/2021 17:33	WG1616659
1,1,2,2-Tetrachloroethane	ND		0.500	1	02/04/2021 17:33	WG1616659
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	02/04/2021 17:33	WG1616659
Tetrachloroethene	ND		0.500	1	02/04/2021 17:33	WG1616659
Toluene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,2,3-Trichlorobenzene	ND		0.500	1	02/04/2021 17:33	WG1616659

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/02/21 00:00

L1313435

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	02/04/2021 17:33	WG1616659
1,1,1-Trichloroethane	ND		0.500	1	02/04/2021 17:33	WG1616659
1,1,2-Trichloroethane	ND		0.500	1	02/04/2021 17:33	WG1616659
Trichloroethene	ND		0.500	1	02/04/2021 17:33	WG1616659
Trichlorofluoromethane	ND		2.50	1	02/04/2021 17:33	WG1616659
1,2,3-Trichloropropane	ND		2.50	1	02/04/2021 17:33	WG1616659
1,2,4-Trimethylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,2,3-Trimethylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
1,3,5-Trimethylbenzene	ND		0.500	1	02/04/2021 17:33	WG1616659
Vinyl chloride	ND		0.500	1	02/04/2021 17:33	WG1616659
Xylenes, Total	ND		1.50	1	02/04/2021 17:33	WG1616659
(S) Toluene-d8	101		80.0-120		02/04/2021 17:33	WG1616659
(S) 4-Bromofluorobenzene	90.0		77.0-126		02/04/2021 17:33	WG1616659
(S) 1,2-Dichloroethane-d4	91.5		70.0-130		02/04/2021 17:33	WG1616659

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3619742-2 02/04/21 16:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500
Ethylbenzene	U		0.137	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3619742-2 02/04/21 16:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	100			80.0-120
(S) 4-Bromofluorobenzene	90.4			77.0-126
(S) 1,2-Dichloroethane-d4	90.7			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3619742-1 02/04/21 15:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	16.0	64.0	19.0-160	
Acrolein	25.0	24.5	98.0	10.0-160	
Acrylonitrile	25.0	19.1	76.4	55.0-149	



Laboratory Control Sample (LCS)

(LCS) R3619742-1 02/04/21 15:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Benzene	5.00	4.65	93.0	70.0-123	
Bromobenzene	5.00	4.47	89.4	73.0-121	
Bromodichloromethane	5.00	4.28	85.6	75.0-120	
Bromoform	5.00	4.38	87.6	68.0-132	
Bromomethane	5.00	5.12	102	10.0-160	
n-Butylbenzene	5.00	4.66	93.2	73.0-125	
sec-Butylbenzene	5.00	5.01	100	75.0-125	
tert-Butylbenzene	5.00	4.77	95.4	76.0-124	
Carbon disulfide	5.00	5.53	111	61.0-128	
Carbon tetrachloride	5.00	4.71	94.2	68.0-126	
Chlorobenzene	5.00	4.83	96.6	80.0-121	
Chlorodibromomethane	5.00	4.76	95.2	77.0-125	
Chloroethane	5.00	4.96	99.2	47.0-150	
Chloroform	5.00	4.97	99.4	73.0-120	
Chloromethane	5.00	4.10	82.0	41.0-142	
2-Chlorotoluene	5.00	4.76	95.2	76.0-123	
4-Chlorotoluene	5.00	4.52	90.4	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	3.62	72.4	58.0-134	
1,2-Dibromoethane	5.00	4.66	93.2	80.0-122	
Dibromomethane	5.00	4.59	91.8	80.0-120	
1,2-Dichlorobenzene	5.00	4.95	99.0	79.0-121	
1,3-Dichlorobenzene	5.00	4.77	95.4	79.0-120	
1,4-Dichlorobenzene	5.00	4.84	96.8	79.0-120	
Dichlorodifluoromethane	5.00	4.97	99.4	51.0-149	
1,1-Dichloroethane	5.00	4.31	86.2	70.0-126	
1,2-Dichloroethane	5.00	4.57	91.4	70.0-128	
1,1-Dichloroethene	5.00	5.24	105	71.0-124	
cis-1,2-Dichloroethene	5.00	4.64	92.8	73.0-120	
trans-1,2-Dichloroethene	5.00	5.44	109	73.0-120	
1,2-Dichloropropane	5.00	4.62	92.4	77.0-125	
1,1-Dichloropropene	5.00	5.00	100	74.0-126	
1,3-Dichloropropane	5.00	4.62	92.4	80.0-120	
cis-1,3-Dichloropropene	5.00	4.36	87.2	80.0-123	
trans-1,3-Dichloropropene	5.00	4.21	84.2	78.0-124	
2,2-Dichloropropane	5.00	5.05	101	58.0-130	
Di-isopropyl ether	5.00	3.63	72.6	58.0-138	
Ethylbenzene	5.00	4.78	95.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.34	107	54.0-138	
Isopropylbenzene	5.00	4.87	97.4	76.0-127	
p-Isopropyltoluene	5.00	4.80	96.0	76.0-125	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3619742-1 02/04/21 15:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
2-Butanone (MEK)	25.0	14.8	59.2	44.0-160	
Methylene Chloride	5.00	5.06	101	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	16.5	66.0	68.0-142	J4
Methyl tert-butyl ether	5.00	4.36	87.2	68.0-125	
Naphthalene	5.00	4.10	82.0	54.0-135	
n-Propylbenzene	5.00	4.68	93.6	77.0-124	
Styrene	5.00	4.78	95.6	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.63	92.6	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.36	87.2	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	5.31	106	69.0-132	
Tetrachloroethene	5.00	5.46	109	72.0-132	
Toluene	5.00	5.10	102	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.57	91.4	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.46	89.2	57.0-137	
1,1,1-Trichloroethane	5.00	4.82	96.4	73.0-124	
1,1,2-Trichloroethane	5.00	4.84	96.8	80.0-120	
Trichloroethene	5.00	4.59	91.8	78.0-124	
Trichlorofluoromethane	5.00	4.72	94.4	59.0-147	
1,2,3-Trichloropropane	5.00	4.57	91.4	73.0-130	
1,2,4-Trimethylbenzene	5.00	5.03	101	76.0-121	
1,2,3-Trimethylbenzene	5.00	5.98	120	77.0-120	
1,3,5-Trimethylbenzene	5.00	4.84	96.8	76.0-122	
Vinyl chloride	5.00	4.78	95.6	67.0-131	
Xylenes, Total	15.0	14.0	93.3	79.0-123	
(S) Toluene-d8			98.0	80.0-120	
(S) 4-Bromofluorobenzene			91.8	77.0-126	
(S) 1,2-Dichloroethane-d4			92.3	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN, 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	AZLA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

Pace Analytical National 1313 Point Mallard Parkway SE Suite B Decatur, AL, 35601

Alabama	40160
ANSI National Accreditation Board	L2239

Pace Analytical National 660 Bercut Dr. Ste. C Sacramento, CA, 95811

California	2961	Oregon	CA300002
Minnesota	006-999-465	Washington	C926
North Dakota	R-214		

Pace Analytical National 6000 South Eastern Avenue Ste 9A Las Vegas, NV, 89119

Nevada	NV009412021-1
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Pace Analytical National 1606 E. Brazos Street Suite D Victoria, TX, 77901

Texas	T104704328-20-18
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¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable



Cascade Corporation- Fairview, OR

2201 NE 201st Avenue
Fairview, OR 97024-9718

Billing Information:
Accounts Payable
P.O. Box 20187
Portland, OR 97294-0187

Report to:
Cindy Bartlett

Project Description:
Cascade TSA CTS

Phone: 503-669-6286

City/State
Collected: **Fairview Oregon**

Email To:
CBartlett@Geosyntec.com; bwebb@Geosyntec.c

Please Circle:
 P MT CT ET

Client Project #
NG0564S20

Lab Project #
CASCORFOR-PNG0564

Site/Facility ID #

P.O. #

Rush? (Lab MUST Be Notified)

Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #

Date Results Needed

No.

STANDARD Turnaround

Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Cntrs

TS-C-EFF-020221

TS-C-EFF-020221-DUP

TS-C-INF-020221

TRIP Blank lot # 460

GW

2/2/21

9:17

3

X

GW

2/2/21

9:18

3

X

GW

2/2/21

9:25

3

X

GW

2/2/21

NA

1

X

GW

GW

GW

GW

GW

GW

GW

VOCs 8260D LL 40m/Amb-HCl

Analysis / Container / Preservative

Pres
Chk

Chain of Custody Page 1 of 1



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG #

J239

Acctnum: **CASCORFOR**

Template: **T180633**

Prelogin: **P822181**

PM: **110 - Brian Ford**

PB:

Shipped Via:

Remarks

Sample # (lab only)

01
02
03
04

Remarks:

Samples returned via:

UPS FedEx Courier

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Tracking #

4510 1660 4920

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Trip Blank Received: Yes No

HCL/MeOH
TBR

Bottles Received: **9**

If preservation required by Login: Date/Time

Temp: **11.0** °C

Date: **2-3-21** Time: **0900**

Hold:

Condition:
NCF / OK

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Relinquished by: (Signature)

Patricia Yodon

Relinquished by: (Signature)

Relinquished by: (Signature)

Date:

Date:

Date:

Time:

Time:

Time:

2-2-21 15:40

FedEx

Patricia Mikhail