

May 14, 2021

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Cascade Corporation- Fairview, OR

Sample Delivery Group: L1349357
Samples Received: 05/06/2021
Project Number: PNG0564S21
Description: Cascade

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.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

TS-C-EFF-050521 L1349357-01 GW

				Collected by Pat Yadon	Collected date/time 05/05/21 07:40	Received date/time 05/06/21 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1667865	1	05/11/21 06:31	05/11/21 06:31	JHH	Mt. Juliet, TN

TS-C-EFF-050521-DUP L1349357-02 GW

				Collected by Pat Yadon	Collected date/time 05/05/21 07:41	Received date/time 05/06/21 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1667865	1	05/11/21 06:50	05/11/21 06:50	JHH	Mt. Juliet, TN

TS-C-INF-050521 L1349357-03 GW

				Collected by Pat Yadon	Collected date/time 05/05/21 07:50	Received date/time 05/06/21 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1667865	1	05/11/21 07:09	05/11/21 07:09	JHH	Mt. Juliet, TN

TRIP BLANK LOT#460 L1349357-04 GW

				Collected by Pat Yadon	Collected date/time 05/05/21 00:00	Received date/time 05/06/21 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1667865	1	05/11/21 01:25	05/11/21 01:25	JHH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

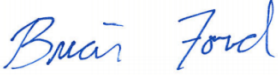
⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

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 ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		25.0	1	05/11/2021 06:31	WG1667865
Acrolein	ND		50.0	1	05/11/2021 06:31	WG1667865
Acrylonitrile	ND		5.00	1	05/11/2021 06:31	WG1667865
Benzene	ND		0.500	1	05/11/2021 06:31	WG1667865
Bromobenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
Bromodichloromethane	ND		0.500	1	05/11/2021 06:31	WG1667865
Bromoform	ND		0.500	1	05/11/2021 06:31	WG1667865
Bromomethane	ND		2.50	1	05/11/2021 06:31	WG1667865
n-Butylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
sec-Butylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
tert-Butylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
Carbon disulfide	ND		0.500	1	05/11/2021 06:31	WG1667865
Carbon tetrachloride	ND		0.500	1	05/11/2021 06:31	WG1667865
Chlorobenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
Chlorodibromomethane	ND		0.500	1	05/11/2021 06:31	WG1667865
Chloroethane	ND		2.50	1	05/11/2021 06:31	WG1667865
Chloroform	ND		0.500	1	05/11/2021 06:31	WG1667865
Chloromethane	ND		1.25	1	05/11/2021 06:31	WG1667865
2-Chlorotoluene	ND		0.500	1	05/11/2021 06:31	WG1667865
4-Chlorotoluene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,2-Dibromo-3-Chloropropane	ND		2.50	1	05/11/2021 06:31	WG1667865
1,2-Dibromoethane	ND		0.500	1	05/11/2021 06:31	WG1667865
Dibromomethane	ND		0.500	1	05/11/2021 06:31	WG1667865
1,2-Dichlorobenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,3-Dichlorobenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,4-Dichlorobenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
Dichlorodifluoromethane	ND		2.50	1	05/11/2021 06:31	WG1667865
1,1-Dichloroethane	ND		0.500	1	05/11/2021 06:31	WG1667865
1,2-Dichloroethane	ND		0.500	1	05/11/2021 06:31	WG1667865
1,1-Dichloroethene	ND		0.500	1	05/11/2021 06:31	WG1667865
cis-1,2-Dichloroethene	ND		0.500	1	05/11/2021 06:31	WG1667865
trans-1,2-Dichloroethene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,2-Dichloropropane	ND		0.500	1	05/11/2021 06:31	WG1667865
1,1-Dichloropropene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,3-Dichloropropane	ND		1.00	1	05/11/2021 06:31	WG1667865
cis-1,3-Dichloropropene	ND		0.500	1	05/11/2021 06:31	WG1667865
trans-1,3-Dichloropropene	ND		0.500	1	05/11/2021 06:31	WG1667865
2,2-Dichloropropane	ND		0.500	1	05/11/2021 06:31	WG1667865
Di-isopropyl ether	ND		0.500	1	05/11/2021 06:31	WG1667865
Ethylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
Hexachloro-1,3-butadiene	ND	C3	1.00	1	05/11/2021 06:31	WG1667865
Isopropylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
p-Isopropyltoluene	ND		0.500	1	05/11/2021 06:31	WG1667865
2-Butanone (MEK)	ND		5.00	1	05/11/2021 06:31	WG1667865
Methylene Chloride	ND		2.50	1	05/11/2021 06:31	WG1667865
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/11/2021 06:31	WG1667865
Methyl tert-butyl ether	ND		0.500	1	05/11/2021 06:31	WG1667865
Naphthalene	ND		2.50	1	05/11/2021 06:31	WG1667865
n-Propylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
Styrene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,1,1,2-Tetrachloroethane	ND		0.500	1	05/11/2021 06:31	WG1667865
1,1,2,2-Tetrachloroethane	ND		0.500	1	05/11/2021 06:31	WG1667865
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	05/11/2021 06:31	WG1667865
Tetrachloroethene	ND		0.500	1	05/11/2021 06:31	WG1667865
Toluene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,2,3-Trichlorobenzene	ND		0.500	1	05/11/2021 06:31	WG1667865

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	05/11/2021 06:31	WG1667865
1,1,1-Trichloroethane	ND		0.500	1	05/11/2021 06:31	WG1667865
1,1,2-Trichloroethane	ND		0.500	1	05/11/2021 06:31	WG1667865
Trichloroethene	ND		0.500	1	05/11/2021 06:31	WG1667865
Trichlorofluoromethane	ND		2.50	1	05/11/2021 06:31	WG1667865
1,2,3-Trichloropropane	ND		2.50	1	05/11/2021 06:31	WG1667865
1,2,4-Trimethylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,2,3-Trimethylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
1,3,5-Trimethylbenzene	ND		0.500	1	05/11/2021 06:31	WG1667865
Vinyl chloride	ND		0.500	1	05/11/2021 06:31	WG1667865
Xylenes, Total	ND		1.50	1	05/11/2021 06:31	WG1667865
(S) Toluene-d8	100		80.0-120		05/11/2021 06:31	WG1667865
(S) 4-Bromofluorobenzene	103		77.0-126		05/11/2021 06:31	WG1667865
(S) 1,2-Dichloroethane-d4	109		70.0-130		05/11/2021 06:31	WG1667865

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		25.0	1	05/11/2021 06:50	WG1667865
Acrolein	ND		50.0	1	05/11/2021 06:50	WG1667865
Acrylonitrile	ND		5.00	1	05/11/2021 06:50	WG1667865
Benzene	ND		0.500	1	05/11/2021 06:50	WG1667865
Bromobenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
Bromodichloromethane	ND		0.500	1	05/11/2021 06:50	WG1667865
Bromoform	ND		0.500	1	05/11/2021 06:50	WG1667865
Bromomethane	ND		2.50	1	05/11/2021 06:50	WG1667865
n-Butylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
sec-Butylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
tert-Butylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
Carbon disulfide	ND		0.500	1	05/11/2021 06:50	WG1667865
Carbon tetrachloride	ND		0.500	1	05/11/2021 06:50	WG1667865
Chlorobenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
Chlorodibromomethane	ND		0.500	1	05/11/2021 06:50	WG1667865
Chloroethane	ND		2.50	1	05/11/2021 06:50	WG1667865
Chloroform	ND		0.500	1	05/11/2021 06:50	WG1667865
Chloromethane	ND		1.25	1	05/11/2021 06:50	WG1667865
2-Chlorotoluene	ND		0.500	1	05/11/2021 06:50	WG1667865
4-Chlorotoluene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,2-Dibromo-3-Chloropropane	ND		2.50	1	05/11/2021 06:50	WG1667865
1,2-Dibromoethane	ND		0.500	1	05/11/2021 06:50	WG1667865
Dibromomethane	ND		0.500	1	05/11/2021 06:50	WG1667865
1,2-Dichlorobenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,3-Dichlorobenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,4-Dichlorobenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
Dichlorodifluoromethane	ND		2.50	1	05/11/2021 06:50	WG1667865
1,1-Dichloroethane	ND		0.500	1	05/11/2021 06:50	WG1667865
1,2-Dichloroethane	ND		0.500	1	05/11/2021 06:50	WG1667865
1,1-Dichloroethene	ND		0.500	1	05/11/2021 06:50	WG1667865
cis-1,2-Dichloroethene	ND		0.500	1	05/11/2021 06:50	WG1667865
trans-1,2-Dichloroethene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,2-Dichloropropane	ND		0.500	1	05/11/2021 06:50	WG1667865
1,1-Dichloropropene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,3-Dichloropropane	ND		1.00	1	05/11/2021 06:50	WG1667865
cis-1,3-Dichloropropene	ND		0.500	1	05/11/2021 06:50	WG1667865
trans-1,3-Dichloropropene	ND		0.500	1	05/11/2021 06:50	WG1667865
2,2-Dichloropropane	ND		0.500	1	05/11/2021 06:50	WG1667865
Di-isopropyl ether	ND		0.500	1	05/11/2021 06:50	WG1667865
Ethylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
Hexachloro-1,3-butadiene	ND	C3	1.00	1	05/11/2021 06:50	WG1667865
Isopropylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
p-Isopropyltoluene	ND		0.500	1	05/11/2021 06:50	WG1667865
2-Butanone (MEK)	ND		5.00	1	05/11/2021 06:50	WG1667865
Methylene Chloride	ND		2.50	1	05/11/2021 06:50	WG1667865
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/11/2021 06:50	WG1667865
Methyl tert-butyl ether	ND		0.500	1	05/11/2021 06:50	WG1667865
Naphthalene	ND		2.50	1	05/11/2021 06:50	WG1667865
n-Propylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
Styrene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,1,1,2-Tetrachloroethane	ND		0.500	1	05/11/2021 06:50	WG1667865
1,1,2,2-Tetrachloroethane	ND		0.500	1	05/11/2021 06:50	WG1667865
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	05/11/2021 06:50	WG1667865
Tetrachloroethene	ND		0.500	1	05/11/2021 06:50	WG1667865
Toluene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,2,3-Trichlorobenzene	ND		0.500	1	05/11/2021 06:50	WG1667865

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ 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	05/11/2021 06:50	WG1667865
1,1,1-Trichloroethane	ND		0.500	1	05/11/2021 06:50	WG1667865
1,1,2-Trichloroethane	ND		0.500	1	05/11/2021 06:50	WG1667865
Trichloroethene	ND		0.500	1	05/11/2021 06:50	WG1667865
Trichlorofluoromethane	ND		2.50	1	05/11/2021 06:50	WG1667865
1,2,3-Trichloropropane	ND		2.50	1	05/11/2021 06:50	WG1667865
1,2,4-Trimethylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,2,3-Trimethylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
1,3,5-Trimethylbenzene	ND		0.500	1	05/11/2021 06:50	WG1667865
Vinyl chloride	ND		0.500	1	05/11/2021 06:50	WG1667865
Xylenes, Total	ND		1.50	1	05/11/2021 06:50	WG1667865
(S) Toluene-d8	102		80.0-120		05/11/2021 06:50	WG1667865
(S) 4-Bromofluorobenzene	104		77.0-126		05/11/2021 06:50	WG1667865
(S) 1,2-Dichloroethane-d4	109		70.0-130		05/11/2021 06:50	WG1667865

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		25.0	1	05/11/2021 07:09	WG1667865
Acrolein	ND		50.0	1	05/11/2021 07:09	WG1667865
Acrylonitrile	ND		5.00	1	05/11/2021 07:09	WG1667865
Benzene	ND		0.500	1	05/11/2021 07:09	WG1667865
Bromobenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
Bromodichloromethane	ND		0.500	1	05/11/2021 07:09	WG1667865
Bromoform	ND		0.500	1	05/11/2021 07:09	WG1667865
Bromomethane	ND		2.50	1	05/11/2021 07:09	WG1667865
n-Butylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
sec-Butylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
tert-Butylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
Carbon disulfide	ND		0.500	1	05/11/2021 07:09	WG1667865
Carbon tetrachloride	ND		0.500	1	05/11/2021 07:09	WG1667865
Chlorobenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
Chlorodibromomethane	ND		0.500	1	05/11/2021 07:09	WG1667865
Chloroethane	ND		2.50	1	05/11/2021 07:09	WG1667865
Chloroform	ND		0.500	1	05/11/2021 07:09	WG1667865
Chloromethane	ND		1.25	1	05/11/2021 07:09	WG1667865
2-Chlorotoluene	ND		0.500	1	05/11/2021 07:09	WG1667865
4-Chlorotoluene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,2-Dibromo-3-Chloropropane	ND		2.50	1	05/11/2021 07:09	WG1667865
1,2-Dibromoethane	ND		0.500	1	05/11/2021 07:09	WG1667865
Dibromomethane	ND		0.500	1	05/11/2021 07:09	WG1667865
1,2-Dichlorobenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,3-Dichlorobenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,4-Dichlorobenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
Dichlorodifluoromethane	ND		2.50	1	05/11/2021 07:09	WG1667865
1,1-Dichloroethane	ND		0.500	1	05/11/2021 07:09	WG1667865
1,2-Dichloroethane	ND		0.500	1	05/11/2021 07:09	WG1667865
1,1-Dichloroethene	ND		0.500	1	05/11/2021 07:09	WG1667865
cis-1,2-Dichloroethene	ND		0.500	1	05/11/2021 07:09	WG1667865
trans-1,2-Dichloroethene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,2-Dichloropropane	ND		0.500	1	05/11/2021 07:09	WG1667865
1,1-Dichloropropene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,3-Dichloropropane	ND		1.00	1	05/11/2021 07:09	WG1667865
cis-1,3-Dichloropropene	ND		0.500	1	05/11/2021 07:09	WG1667865
trans-1,3-Dichloropropene	ND		0.500	1	05/11/2021 07:09	WG1667865
2,2-Dichloropropane	ND		0.500	1	05/11/2021 07:09	WG1667865
Di-isopropyl ether	ND		0.500	1	05/11/2021 07:09	WG1667865
Ethylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
Hexachloro-1,3-butadiene	ND	C3	1.00	1	05/11/2021 07:09	WG1667865
Isopropylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
p-Isopropyltoluene	ND		0.500	1	05/11/2021 07:09	WG1667865
2-Butanone (MEK)	ND		5.00	1	05/11/2021 07:09	WG1667865
Methylene Chloride	ND		2.50	1	05/11/2021 07:09	WG1667865
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/11/2021 07:09	WG1667865
Methyl tert-butyl ether	ND		0.500	1	05/11/2021 07:09	WG1667865
Naphthalene	ND		2.50	1	05/11/2021 07:09	WG1667865
n-Propylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
Styrene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,1,1,2-Tetrachloroethane	ND		0.500	1	05/11/2021 07:09	WG1667865
1,1,2,2-Tetrachloroethane	ND		0.500	1	05/11/2021 07:09	WG1667865
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	05/11/2021 07:09	WG1667865
Tetrachloroethene	ND		0.500	1	05/11/2021 07:09	WG1667865
Toluene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,2,3-Trichlorobenzene	ND		0.500	1	05/11/2021 07:09	WG1667865

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	05/11/2021 07:09	WG1667865
1,1,1-Trichloroethane	ND		0.500	1	05/11/2021 07:09	WG1667865
1,1,2-Trichloroethane	ND		0.500	1	05/11/2021 07:09	WG1667865
Trichloroethene	3.54		0.500	1	05/11/2021 07:09	WG1667865
Trichlorofluoromethane	ND		2.50	1	05/11/2021 07:09	WG1667865
1,2,3-Trichloropropane	ND		2.50	1	05/11/2021 07:09	WG1667865
1,2,4-Trimethylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,2,3-Trimethylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
1,3,5-Trimethylbenzene	ND		0.500	1	05/11/2021 07:09	WG1667865
Vinyl chloride	ND		0.500	1	05/11/2021 07:09	WG1667865
Xylenes, Total	ND		1.50	1	05/11/2021 07:09	WG1667865
(S) Toluene-d8	103		80.0-120		05/11/2021 07:09	WG1667865
(S) 4-Bromofluorobenzene	106		77.0-126		05/11/2021 07:09	WG1667865
(S) 1,2-Dichloroethane-d4	110		70.0-130		05/11/2021 07:09	WG1667865

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		25.0	1	05/11/2021 01:25	WG1667865
Acrolein	ND		50.0	1	05/11/2021 01:25	WG1667865
Acrylonitrile	ND		5.00	1	05/11/2021 01:25	WG1667865
Benzene	ND		0.500	1	05/11/2021 01:25	WG1667865
Bromobenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
Bromodichloromethane	ND		0.500	1	05/11/2021 01:25	WG1667865
Bromoform	ND		0.500	1	05/11/2021 01:25	WG1667865
Bromomethane	ND		2.50	1	05/11/2021 01:25	WG1667865
n-Butylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
sec-Butylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
tert-Butylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
Carbon disulfide	ND		0.500	1	05/11/2021 01:25	WG1667865
Carbon tetrachloride	ND		0.500	1	05/11/2021 01:25	WG1667865
Chlorobenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
Chlorodibromomethane	ND		0.500	1	05/11/2021 01:25	WG1667865
Chloroethane	ND		2.50	1	05/11/2021 01:25	WG1667865
Chloroform	ND		0.500	1	05/11/2021 01:25	WG1667865
Chloromethane	ND		1.25	1	05/11/2021 01:25	WG1667865
2-Chlorotoluene	ND		0.500	1	05/11/2021 01:25	WG1667865
4-Chlorotoluene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,2-Dibromo-3-Chloropropane	ND		2.50	1	05/11/2021 01:25	WG1667865
1,2-Dibromoethane	ND		0.500	1	05/11/2021 01:25	WG1667865
Dibromomethane	ND		0.500	1	05/11/2021 01:25	WG1667865
1,2-Dichlorobenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,3-Dichlorobenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,4-Dichlorobenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
Dichlorodifluoromethane	ND		2.50	1	05/11/2021 01:25	WG1667865
1,1-Dichloroethane	ND		0.500	1	05/11/2021 01:25	WG1667865
1,2-Dichloroethane	ND		0.500	1	05/11/2021 01:25	WG1667865
1,1-Dichloroethene	ND		0.500	1	05/11/2021 01:25	WG1667865
cis-1,2-Dichloroethene	ND		0.500	1	05/11/2021 01:25	WG1667865
trans-1,2-Dichloroethene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,2-Dichloropropane	ND		0.500	1	05/11/2021 01:25	WG1667865
1,1-Dichloropropene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,3-Dichloropropane	ND		1.00	1	05/11/2021 01:25	WG1667865
cis-1,3-Dichloropropene	ND		0.500	1	05/11/2021 01:25	WG1667865
trans-1,3-Dichloropropene	ND		0.500	1	05/11/2021 01:25	WG1667865
2,2-Dichloropropane	ND		0.500	1	05/11/2021 01:25	WG1667865
Di-isopropyl ether	ND		0.500	1	05/11/2021 01:25	WG1667865
Ethylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
Hexachloro-1,3-butadiene	ND	C3	1.00	1	05/11/2021 01:25	WG1667865
Isopropylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
p-Isopropyltoluene	ND		0.500	1	05/11/2021 01:25	WG1667865
2-Butanone (MEK)	ND		5.00	1	05/11/2021 01:25	WG1667865
Methylene Chloride	ND		2.50	1	05/11/2021 01:25	WG1667865
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/11/2021 01:25	WG1667865
Methyl tert-butyl ether	ND		0.500	1	05/11/2021 01:25	WG1667865
Naphthalene	ND		2.50	1	05/11/2021 01:25	WG1667865
n-Propylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
Styrene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,1,1,2-Tetrachloroethane	ND		0.500	1	05/11/2021 01:25	WG1667865
1,1,2,2-Tetrachloroethane	ND		0.500	1	05/11/2021 01:25	WG1667865
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	05/11/2021 01:25	WG1667865
Tetrachloroethene	ND		0.500	1	05/11/2021 01:25	WG1667865
Toluene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,2,3-Trichlorobenzene	ND		0.500	1	05/11/2021 01:25	WG1667865

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	05/11/2021 01:25	WG1667865
1,1,1-Trichloroethane	ND		0.500	1	05/11/2021 01:25	WG1667865
1,1,2-Trichloroethane	ND		0.500	1	05/11/2021 01:25	WG1667865
Trichloroethene	ND		0.500	1	05/11/2021 01:25	WG1667865
Trichlorofluoromethane	ND		2.50	1	05/11/2021 01:25	WG1667865
1,2,3-Trichloropropane	ND		2.50	1	05/11/2021 01:25	WG1667865
1,2,4-Trimethylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,2,3-Trimethylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
1,3,5-Trimethylbenzene	ND		0.500	1	05/11/2021 01:25	WG1667865
Vinyl chloride	ND		0.500	1	05/11/2021 01:25	WG1667865
Xylenes, Total	ND		1.50	1	05/11/2021 01:25	WG1667865
(S) Toluene-d8	105		80.0-120		05/11/2021 01:25	WG1667865
(S) 4-Bromofluorobenzene	106		77.0-126		05/11/2021 01:25	WG1667865
(S) 1,2-Dichloroethane-d4	97.4		70.0-130		05/11/2021 01:25	WG1667865

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) R3654590-3 05/11/21 01:06

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3654590-3 05/11/21 01:06

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	101			80.0-120
(S) 4-Bromofluorobenzene	107			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

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Cp

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Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3654590-1 05/11/21 00:08 • (LCSD) R3654590-2 05/11/21 00:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	29.0	27.8	116	111	19.0-160			4.23	27
Acrolein	25.0	23.7	22.3	94.8	89.2	10.0-160			6.09	26
Acrylonitrile	25.0	33.9	33.7	136	135	55.0-149			0.592	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3654590-1 05/11/21 00:08 • (LCSD) R3654590-2 05/11/21 00:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzene	5.00	5.06	4.91	101	98.2	70.0-123			3.01	20
Bromobenzene	5.00	5.45	5.42	109	108	73.0-121			0.552	20
Bromodichloromethane	5.00	5.18	5.03	104	101	75.0-120			2.94	20
Bromoform	5.00	5.91	5.62	118	112	68.0-132			5.03	20
Bromomethane	5.00	4.09	3.68	81.8	73.6	10.0-160			10.6	25
n-Butylbenzene	5.00	4.13	4.15	82.6	83.0	73.0-125			0.483	20
sec-Butylbenzene	5.00	4.60	4.48	92.0	89.6	75.0-125			2.64	20
tert-Butylbenzene	5.00	4.73	4.60	94.6	92.0	76.0-124			2.79	20
Carbon disulfide	5.00	5.15	4.84	103	96.8	61.0-128			6.21	20
Carbon tetrachloride	5.00	5.20	4.98	104	99.6	68.0-126			4.32	20
Chlorobenzene	5.00	5.59	5.34	112	107	80.0-121			4.57	20
Chlorodibromomethane	5.00	5.71	5.40	114	108	77.0-125			5.58	20
Chloroethane	5.00	4.49	4.28	89.8	85.6	47.0-150			4.79	20
Chloroform	5.00	5.20	4.95	104	99.0	73.0-120			4.93	20
Chloromethane	5.00	4.76	4.42	95.2	88.4	41.0-142			7.41	20
2-Chlorotoluene	5.00	5.33	5.18	107	104	76.0-123			2.85	20
4-Chlorotoluene	5.00	5.09	5.10	102	102	75.0-122			0.196	20
1,2-Dibromo-3-Chloropropane	5.00	5.41	5.34	108	107	58.0-134			1.30	20
1,2-Dibromoethane	5.00	6.11	5.94	122	119	80.0-122			2.82	20
Dibromomethane	5.00	5.76	5.47	115	109	80.0-120			5.16	20
1,2-Dichlorobenzene	5.00	5.29	5.32	106	106	79.0-121			0.566	20
1,3-Dichlorobenzene	5.00	5.20	4.95	104	99.0	79.0-120			4.93	20
1,4-Dichlorobenzene	5.00	5.18	5.09	104	102	79.0-120			1.75	20
Dichlorodifluoromethane	5.00	5.53	5.11	111	102	51.0-149			7.89	20
1,1-Dichloroethane	5.00	5.32	5.24	106	105	70.0-126			1.52	20
1,2-Dichloroethane	5.00	5.28	5.13	106	103	70.0-128			2.88	20
1,1-Dichloroethene	5.00	5.43	5.10	109	102	71.0-124			6.27	20
cis-1,2-Dichloroethene	5.00	5.09	4.91	102	98.2	73.0-120			3.60	20
trans-1,2-Dichloroethene	5.00	5.08	4.86	102	97.2	73.0-120			4.43	20
1,2-Dichloropropane	5.00	5.52	5.37	110	107	77.0-125			2.75	20
1,1-Dichloropropene	5.00	5.23	5.13	105	103	74.0-126			1.93	20
1,3-Dichloropropane	5.00	5.81	5.52	116	110	80.0-120			5.12	20
cis-1,3-Dichloropropene	5.00	5.29	5.07	106	101	80.0-123			4.25	20
trans-1,3-Dichloropropene	5.00	5.44	5.11	109	102	78.0-124			6.26	20
2,2-Dichloropropane	5.00	5.32	4.90	106	98.0	58.0-130			8.22	20
Di-isopropyl ether	5.00	5.65	5.53	113	111	58.0-138			2.15	20
Ethylbenzene	5.00	5.28	5.27	106	105	79.0-123			0.190	20
Hexachloro-1,3-butadiene	5.00	3.79	3.97	75.8	79.4	54.0-138			4.64	20
Isopropylbenzene	5.00	5.38	5.16	108	103	76.0-127			4.17	20
p-Isopropyltoluene	5.00	4.69	4.53	93.8	90.6	76.0-125			3.47	20

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3654590-1 05/11/21 00:08 • (LCSD) R3654590-2 05/11/21 00:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Butanone (MEK)	25.0	31.2	30.6	125	122	44.0-160			1.94	20
Methylene Chloride	5.00	5.43	5.34	109	107	67.0-120			1.67	20
4-Methyl-2-pentanone (MIBK)	25.0	30.3	29.0	121	116	68.0-142			4.38	20
Methyl tert-butyl ether	5.00	5.27	4.87	105	97.4	68.0-125			7.89	20
Naphthalene	5.00	4.75	4.97	95.0	99.4	54.0-135			4.53	20
n-Propylbenzene	5.00	4.86	4.74	97.2	94.8	77.0-124			2.50	20
Styrene	5.00	5.66	5.54	113	111	73.0-130			2.14	20
1,1,1,2-Tetrachloroethane	5.00	5.51	5.15	110	103	75.0-125			6.75	20
1,1,2,2-Tetrachloroethane	5.00	5.45	5.19	109	104	65.0-130			4.89	20
1,1,2-Trichlorotrifluoroethane	5.00	5.39	4.99	108	99.8	69.0-132			7.71	20
Tetrachloroethene	5.00	5.79	5.39	116	108	72.0-132			7.16	20
Toluene	5.00	5.38	5.13	108	103	79.0-120			4.76	20
1,2,3-Trichlorobenzene	5.00	4.03	4.52	80.6	90.4	50.0-138			11.5	20
1,2,4-Trichlorobenzene	5.00	4.66	4.79	93.2	95.8	57.0-137			2.75	20
1,1,1-Trichloroethane	5.00	5.20	4.98	104	99.6	73.0-124			4.32	20
1,1,2-Trichloroethane	5.00	5.76	5.57	115	111	80.0-120			3.35	20
Trichloroethene	5.00	5.68	5.54	114	111	78.0-124			2.50	20
Trichlorofluoromethane	5.00	5.11	4.91	102	98.2	59.0-147			3.99	20
1,2,3-Trichloropropane	5.00	5.84	5.68	117	114	73.0-130			2.78	20
1,2,4-Trimethylbenzene	5.00	4.72	4.61	94.4	92.2	76.0-121			2.36	20
1,2,3-Trimethylbenzene	5.00	4.87	4.91	97.4	98.2	77.0-120			0.818	20
1,3,5-Trimethylbenzene	5.00	4.96	4.79	99.2	95.8	76.0-122			3.49	20
Vinyl chloride	5.00	4.81	4.53	96.2	90.6	67.0-131			6.00	20
Xylenes, Total	15.0	16.6	15.8	111	105	79.0-123			4.94	20
(S) Toluene-d8				104	105	80.0-120				
(S) 4-Bromofluorobenzene				108	108	77.0-126				
(S) 1,2-Dichloroethane-d4				103	101	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

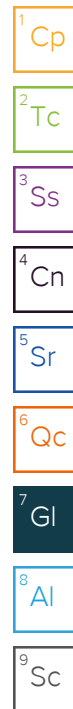
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.



ACCREDITATIONS & LOCATIONS

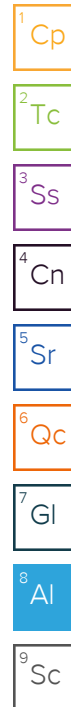
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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	LA000356
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	A2LA
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		

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

* 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 Analytical.



Company / Address: Cascade Corporation- Fairview, OR 2201 NE 201st Avenue Fairview, OR 97024-9718		Billing Information: Accounts Payable P.O. Box 20187 Portland, OR 97294-0187		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>1</u>  13065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf			
Report to: Cindy Bartlett		Email To: CBartlett@Geosyntec.com; JLaurance@Geosynt																	
Project Description: Cascade		City/State Collected: Fairview OR.		Please Circle: ☒ PT ☐ MT ☐ CT ☐ ET															
Phone: 503-669-6286		Client Project # PNG0564S21		Lab Project # CASCORFOR-PNG0564		VOCs 8260D LL 40mAmb-HCl													
Collected by (print): PAT YADON		Site/Facility ID #		P.O. #															
Collected by (signature):		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day STANDARD		Quote #															
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed		No. of Cntrs															
Sample ID		Comp/Grab		Matrix *															
TS-C-EFF-050521				GW				5/5/21		7:40		3							
TS-C-EFF-050521-DUP				GW				5/5/21		7:41		3							
TS-C-INF-050521				GW				5/5/21		7:50		3							
Trip Blank LOT# 460				GW				NA.		—		10							
				GW															
				GW															
				GW															
				GW															
				GW															
				GW															
				GW															

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

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking # **9823 6087 3249**

Relinquished by : (Signature)
PAT YADON

Relinquished by : (Signature)

Relinquished by : (Signature)

Date: **5-5-21** Time: **18:20**

Date: Time:

Date: Time:

Received by: (Signature)
FED EX

Received by: (Signature)

Received for lab by: (Signature)
[Signature]

Trip Blank Received: Yes / No
☒ Yes ☐ No
 HCL / MeOH
 TBR

Bottles Received: **9**

Date: **5-6-21** Time: **9:30**

Sample Receipt Checklist

COC Seal Present/Intact:	☒ 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

If preservation required by Login: Date/Time

Hold:

Condition:
 NCF / ☒ OK