



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, August 16, 2022

Chip Byrd  
Sevenson Environmental Services, Inc.  
2749 Lockport Road  
Niagara Falls, NY 14305

RE: A2G0560 - Gasco -- Monthly (2022) - 000029-02-20-2

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 A2G0560, which was received by the laboratory on 7/20/2022 at 12:10:00PM.

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](mailto: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.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	3.9 degC	Cooler #2	5.8 degC
Cooler #3	4.2 degC	Cooler #4	3.9 degC
Cooler #5	5.2 degC		

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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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

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**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SI-072022-92	A2G0560-01	Water	07/20/22 00:45	07/20/22 12:10
SE-072022-92	A2G0560-02	Water	07/20/22 01:00	07/20/22 12:10
KOP-072022-92	A2G0560-03	Water	07/20/22 00:30	07/20/22 12:10
NWI-072022-92	A2G0560-04	Water	07/20/22 01:30	07/20/22 12:10
NWE-072022-92	A2G0560-05	Water	07/20/22 01:45	07/20/22 12:10
TWIA-072022-92	A2G0560-06	Water	07/20/22 02:00	07/20/22 12:10
TWIB-072022-92	A2G0560-07	Water	07/20/22 03:15	07/20/22 12:10
TWE-072022-92	A2G0560-08	Water	07/20/22 03:30	07/20/22 12:10
TPI-072022-92	A2G0560-09	Water	07/20/22 01:10	07/20/22 12:10
PGAC-072022-92	A2G0560-10	Water	07/20/22 01:40	07/20/22 12:10
GACM1-072022-92	A2G0560-11	Water	07/20/22 00:10	07/20/22 12:10
GACF1-072022-92	A2G0560-12	Water	07/20/22 00:30	07/20/22 12:10

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Darwin Thomas, Business Development Director



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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SI-072022-92 (A2G0560-01)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
Acetone	ND	50.0	100	ug/L	5	07/20/22 20:10	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>Benzene</b>	<b>216</b>	0.500	1.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	07/20/22 20:10	EPA 8260D	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	07/20/22 20:10	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Carbon disulfide	ND	25.0	50.0	ug/L	5	07/20/22 20:10	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>Chlorobenzene</b>	<b>2.75</b>	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	5	07/20/22 20:10	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	07/20/22 20:10	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	07/20/22 20:10	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,1-Dichloroethene	ND	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>cis-1,2-Dichloroethene</b>	<b>6.05</b>	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
trans-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	

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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SI-072022-92 (A2G0560-01)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0610</b>		
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>Ethylbenzene</b>	<b>110</b>	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	07/20/22 20:10	EPA 8260D	
2-Hexanone	ND	25.0	50.0	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>Isopropylbenzene</b>	<b>5.60</b>	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	07/20/22 20:10	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	25.0	50.0	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>Methyl tert-butyl ether (MTBE)</b>	<b>3.10</b>	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	J
<b>n-Propylbenzene</b>	<b>2.20</b>	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	J
Styrene	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>Toluene</b>	<b>4.80</b>	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	07/20/22 20:10	EPA 8260D	
1,2,4-Trichlorobenzene	ND	5.00	10.0	ug/L	5	07/20/22 20:10	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	
Trichloroethene (TCE)	ND	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	07/20/22 20:10	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>34.9</b>	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>1,3,5-Trimethylbenzene</b>	<b>8.75</b>	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>Vinyl chloride</b>	<b>12.4</b>	1.00	2.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>m,p-Xylene</b>	<b>62.6</b>	2.50	5.00	ug/L	5	07/20/22 20:10	EPA 8260D	
<b>o-Xylene</b>	<b>39.8</b>	1.25	2.50	ug/L	5	07/20/22 20:10	EPA 8260D	

Surrogate: 1,4-Difluorobenzene (Surr)      Recovery: 102 %      Limits: 80-120 %      1      07/20/22 20:10      EPA 8260D

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Darwin Thomas, Business Development Director



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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SI-072022-92 (A2G0560-01)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0610</b>		
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/20/22 20:10</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/20/22 20:10</i>	<i>EPA 8260D</i>	
<b>SE-072022-92 (A2G0560-02RE1)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0698</b>		
Acetone	ND	20.0	40.0	ug/L	2	07/22/22 00:50	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>Benzene</b>	<b>53.4</b>	0.200	0.400	ug/L	2	07/22/22 00:50	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	07/22/22 00:50	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	07/22/22 00:50	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	07/22/22 00:50	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>Chlorobenzene</b>	<b>1.22</b>	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	07/22/22 00:50	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	07/22/22 00:50	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	07/22/22 00:50	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>1,2-Dichlorobenzene</b>	<b>0.840</b>	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	<b>J</b>
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	

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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SE-072022-92 (A2G0560-02RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>cis-1,2-Dichloroethene</b>	<b>1.48</b>	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>Ethylbenzene</b>	<b>26.5</b>	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	07/22/22 00:50	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>Isopropylbenzene</b>	<b>1.24</b>	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	J
<b>4-Isopropyltoluene</b>	<b>1.08</b>	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	J
Methylene chloride	ND	10.0	20.0	ug/L	2	07/22/22 00:50	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	10.0	20.0	ug/L	2	07/22/22 00:50	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	2.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>Toluene</b>	<b>1.30</b>	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	07/22/22 00:50	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>8.52</b>	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>1,3,5-Trimethylbenzene</b>	<b>2.30</b>	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>Vinyl chloride</b>	<b>0.820</b>	0.400	0.800	ug/L	2	07/22/22 00:50	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SE-072022-92 (A2G0560-02RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
<b>m,p-Xylene</b>	<b>14.6</b>	1.00	2.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<b>o-Xylene</b>	<b>11.3</b>	0.500	1.00	ug/L	2	07/22/22 00:50	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/22/22 00:50</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>				<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/22/22 00:50</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/22/22 00:50</i>
<b>KOP-072022-92 (A2G0560-03RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
Acetone	ND	10.0	20.0	ug/L	1	07/22/22 00:23	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/22/22 00:23	EPA 8260D	
<b>Benzene</b>	<b>1.52</b>	0.100	0.200	ug/L	1	07/22/22 00:23	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	07/22/22 00:23	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/22/22 00:23	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/22/22 00:23	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	07/22/22 00:23	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/22/22 00:23	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>KOP-072022-92 (A2G0560-03RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
<b>Ethylbenzene</b>	<b>1.56</b>	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/22/22 00:23	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/22/22 00:23	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
<b>4-Isopropyltoluene</b>	<b>0.530</b>	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	J
Methylene chloride	ND	5.00	10.0	ug/L	1	07/22/22 00:23	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	07/22/22 00:23	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
<b>Toluene</b>	<b>1.53</b>	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>KOP-072022-92 (A2G0560-03RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
1,2,4-Trimethylbenzene	<b>1.23</b>	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
1,3,5-Trimethylbenzene	<b>0.790</b>	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	J
Vinyl chloride	ND	0.200	0.400	ug/L	1	07/22/22 00:23	EPA 8260D	
m,p-Xylene	<b>5.44</b>	0.500	1.00	ug/L	1	07/22/22 00:23	EPA 8260D	
o-Xylene	<b>2.51</b>	0.250	0.500	ug/L	1	07/22/22 00:23	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/22/22 00:23</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>				<i>80-120 %</i>		<i>1</i>	<i>07/22/22 00:23</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>80-120 %</i>		<i>1</i>	<i>07/22/22 00:23</i>	<i>EPA 8260D</i>
<b>NWI-072022-92 (A2G0560-04)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
Acetone	ND	20.0	40.0	ug/L	2	07/20/22 21:14	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	07/20/22 21:14	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	07/20/22 21:14	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	07/20/22 21:14	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	07/20/22 21:14	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	07/20/22 21:14	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	07/20/22 21:14	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>NWI-072022-92 (A2G0560-04)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
<b>Ethylbenzene</b>	<b>25.0</b>	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	07/20/22 21:14	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	07/20/22 21:14	EPA 8260D	
<b>Isopropylbenzene</b>	<b>1.40</b>	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	J
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	07/20/22 21:14	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	20.0	ug/L	2	07/20/22 21:14	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
<b>n-Propylbenzene</b>	<b>0.500</b>	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	J
Styrene	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	
<b>Toluene</b>	<b>2.36</b>	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	07/20/22 21:14	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D	

Apex Laboratories

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
<b>NWI-072022-92 (A2G0560-04)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>			
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	07/20/22 21:14	EPA 8260D		
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D		
<b>1,2,4-Trimethylbenzene</b>	<b>6.46</b>	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D		
<b>1,3,5-Trimethylbenzene</b>	<b>1.66</b>	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D	J	
Vinyl chloride	ND	0.400	0.800	ug/L	2	07/20/22 21:14	EPA 8260D		
<b>m,p-Xylene</b>	<b>8.24</b>	1.00	2.00	ug/L	2	07/20/22 21:14	EPA 8260D		
<b>o-Xylene</b>	<b>6.22</b>	0.500	1.00	ug/L	2	07/20/22 21:14	EPA 8260D		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/22 21:14</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>				<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/20/22 21:14</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/20/22 21:14</i>	<i>EPA 8260D</i>
<b>NWI-072022-92 (A2G0560-04RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>			
<b>Benzene</b>	<b>377</b>	2.00	4.00	ug/L	20	07/22/22 02:11	EPA 8260D		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/22/22 02:11</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>				<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/22/22 02:11</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/22/22 02:11</i>	<i>EPA 8260D</i>
<b>NWE-072022-92 (A2G0560-05)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>			
Acetone	ND	10.0	20.0	ug/L	1	07/20/22 19:49	EPA 8260D		
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/20/22 19:49	EPA 8260D		
<b>Benzene</b>	<b>69.8</b>	0.100	0.200	ug/L	1	07/20/22 19:49	EPA 8260D		
Bromobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D		
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D		
Bromodichloromethane	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D		
<b>Bromoform</b>	<b>0.610</b>	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	J	
Bromomethane	ND	5.00	5.00	ug/L	1	07/20/22 19:49	EPA 8260D		
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/20/22 19:49	EPA 8260D		
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D		
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D		
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D		
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/20/22 19:49	EPA 8260D		
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D		
Chlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D		
Chloroethane	ND	5.00	5.00	ug/L	1	07/20/22 19:49	EPA 8260D		

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>NWE-072022-92 (A2G0560-05)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
Chloroform	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/20/22 19:49	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/20/22 19:49	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
<b>Ethylbenzene</b>	<b>2.92</b>	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/20/22 19:49	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/20/22 19:49	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	07/20/22 19:49	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	07/20/22 19:49	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>NWE-072022-92 (A2G0560-05)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
<b>Toluene</b>	<b>0.420</b>	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	<b>J</b>
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/20/22 19:49	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/20/22 19:49	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/20/22 19:49	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>0.580</b>	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	<b>J</b>
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	07/20/22 19:49	EPA 8260D	
<b>m,p-Xylene</b>	<b>1.04</b>	0.500	1.00	ug/L	1	07/20/22 19:49	EPA 8260D	
<b>o-Xylene</b>	<b>1.26</b>	0.250	0.500	ug/L	1	07/20/22 19:49	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/22 19:49</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 19:49</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 19:49</i>	<i>EPA 8260D</i>

<b>TWIA-072022-92 (A2G0560-06RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
Acetone	ND	200	400	ug/L	20	07/22/22 02:38	EPA 8260D	
Acrylonitrile	ND	20.0	40.0	ug/L	20	07/22/22 02:38	EPA 8260D	
<b>Benzene</b>	<b>1260</b>	2.00	4.00	ug/L	20	07/22/22 02:38	EPA 8260D	
Bromobenzene	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Bromochloromethane	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Bromodichloromethane	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Bromoform	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Bromomethane	ND	100	100	ug/L	20	07/22/22 02:38	EPA 8260D	
2-Butanone (MEK)	ND	100	200	ug/L	20	07/22/22 02:38	EPA 8260D	
n-Butylbenzene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
sec-Butylbenzene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
tert-Butylbenzene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TWIA-072022-92 (A2G0560-06RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
Carbon disulfide	ND	100	200	ug/L	20	07/22/22 02:38	EPA 8260D	
Carbon tetrachloride	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Chlorobenzene	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Chloroethane	ND	100	100	ug/L	20	07/22/22 02:38	EPA 8260D	
Chloroform	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Chloromethane	ND	50.0	100	ug/L	20	07/22/22 02:38	EPA 8260D	
2-Chlorotoluene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
4-Chlorotoluene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Dibromochloromethane	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	50.0	100	ug/L	20	07/22/22 02:38	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Dibromomethane	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,2-Dichlorobenzene	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,3-Dichlorobenzene	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,4-Dichlorobenzene	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Dichlorodifluoromethane	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,1-Dichloroethane	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
1,1-Dichloroethene	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
cis-1,2-Dichloroethene	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
trans-1,2-Dichloroethene	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
1,2-Dichloropropane	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,3-Dichloropropane	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
2,2-Dichloropropane	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,1-Dichloropropene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
cis-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
trans-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
<b>Ethylbenzene</b>	<b>132</b>	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Hexachlorobutadiene	ND	50.0	100	ug/L	20	07/22/22 02:38	EPA 8260D	
2-Hexanone	ND	100	200	ug/L	20	07/22/22 02:38	EPA 8260D	
<b>Isopropylbenzene</b>	<b>13.8</b>	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	<b>J</b>
4-Isopropyltoluene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Methylene chloride	ND	100	200	ug/L	20	07/22/22 02:38	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TWIA-072022-92 (A2G0560-06RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
4-Methyl-2-pentanone (MiBK)	ND	100	200	ug/L	20	07/22/22 02:38	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
<b>n-Propylbenzene</b>	<b>5.20</b>	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	<b>J</b>
Styrene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Tetrachloroethene (PCE)	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
<b>Toluene</b>	<b>8.60</b>	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	<b>J</b>
1,2,3-Trichlorobenzene	ND	20.0	40.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,2,4-Trichlorobenzene	ND	20.0	40.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,1,1-Trichloroethane	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
1,1,2-Trichloroethane	ND	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Trichloroethene (TCE)	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
Trichlorofluoromethane	ND	20.0	40.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,2,3-Trichloropropane	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>31.2</b>	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
1,3,5-Trimethylbenzene	ND	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
Vinyl chloride	ND	4.00	8.00	ug/L	20	07/22/22 02:38	EPA 8260D	
<b>m,p-Xylene</b>	<b>52.6</b>	10.0	20.0	ug/L	20	07/22/22 02:38	EPA 8260D	
<b>o-Xylene</b>	<b>41.6</b>	5.00	10.0	ug/L	20	07/22/22 02:38	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/22/22 02:38</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/22/22 02:38</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/22/22 02:38</i>	<i>EPA 8260D</i>	

<b>TWIB-072022-92 (A2G0560-07RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
Acetone	ND	1000	2000	ug/L	100	07/22/22 03:32	EPA 8260D	
Acrylonitrile	ND	100	200	ug/L	100	07/22/22 03:32	EPA 8260D	
<b>Benzene</b>	<b>8500</b>	10.0	20.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Bromobenzene	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Bromochloromethane	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Bromodichloromethane	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Bromoform	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Bromomethane	ND	500	500	ug/L	100	07/22/22 03:32	EPA 8260D	

Apex Laboratories

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TWIB-072022-92 (A2G0560-07RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
2-Butanone (MEK)	ND	500	1000	ug/L	100	07/22/22 03:32	EPA 8260D	
n-Butylbenzene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
sec-Butylbenzene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
tert-Butylbenzene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Carbon disulfide	ND	500	1000	ug/L	100	07/22/22 03:32	EPA 8260D	
Carbon tetrachloride	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Chlorobenzene	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Chloroethane	ND	500	500	ug/L	100	07/22/22 03:32	EPA 8260D	
Chloroform	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Chloromethane	ND	250	500	ug/L	100	07/22/22 03:32	EPA 8260D	
2-Chlorotoluene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
4-Chlorotoluene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Dibromochloromethane	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	250	500	ug/L	100	07/22/22 03:32	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Dibromomethane	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
1,2-Dichlorobenzene	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,3-Dichlorobenzene	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,4-Dichlorobenzene	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Dichlorodifluoromethane	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
1,1-Dichloroethane	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,1-Dichloroethene	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
cis-1,2-Dichloroethene	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
trans-1,2-Dichloroethene	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,2-Dichloropropane	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,3-Dichloropropane	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
2,2-Dichloropropane	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
1,1-Dichloropropene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
cis-1,3-Dichloropropene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
trans-1,3-Dichloropropene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
<b>Ethylbenzene</b>	<b>636</b>	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Hexachlorobutadiene	ND	250	500	ug/L	100	07/22/22 03:32	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TWIB-072022-92 (A2G0560-07RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
2-Hexanone	ND	500	1000	ug/L	100	07/22/22 03:32	EPA 8260D	
Isopropylbenzene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
4-Isopropyltoluene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Methylene chloride	ND	500	1000	ug/L	100	07/22/22 03:32	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	500	1000	ug/L	100	07/22/22 03:32	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
n-Propylbenzene	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Styrene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Tetrachloroethene (PCE)	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
<b>Toluene</b>	<b>264</b>	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,2,3-Trichlorobenzene	ND	100	200	ug/L	100	07/22/22 03:32	EPA 8260D	
1,2,4-Trichlorobenzene	ND	100	200	ug/L	100	07/22/22 03:32	EPA 8260D	
1,1,1-Trichloroethane	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
1,1,2-Trichloroethane	ND	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Trichloroethene (TCE)	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
Trichlorofluoromethane	ND	100	200	ug/L	100	07/22/22 03:32	EPA 8260D	
1,2,3-Trichloropropane	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>94.0</b>	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
Vinyl chloride	ND	20.0	40.0	ug/L	100	07/22/22 03:32	EPA 8260D	
<b>m,p-Xylene</b>	<b>163</b>	50.0	100	ug/L	100	07/22/22 03:32	EPA 8260D	
<b>o-Xylene</b>	<b>161</b>	25.0	50.0	ug/L	100	07/22/22 03:32	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/22/22 03:32</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/22/22 03:32</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/22/22 03:32</i>	<i>EPA 8260D</i>

<b>TWE-072022-92 (A2G0560-08)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
Acetone	ND	20.0	40.0	ug/L	2	07/20/22 21:35	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>Benzene</b>	<b>295</b>	0.200	0.400	ug/L	2	07/20/22 21:35	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TWE-072022-92 (A2G0560-08)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
Bromochloromethane	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	07/20/22 21:35	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	07/20/22 21:35	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	07/20/22 21:35	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	07/20/22 21:35	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	07/20/22 21:35	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	07/20/22 21:35	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TWE-072022-92 (A2G0560-08)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>Ethylbenzene</b>	<b>23.5</b>	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	07/20/22 21:35	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>Isopropylbenzene</b>	<b>2.04</b>	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	07/20/22 21:35	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	20.0	ug/L	2	07/20/22 21:35	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>n-Propylbenzene</b>	<b>0.720</b>	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	J
Styrene	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>Toluene</b>	<b>8.28</b>	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	07/20/22 21:35	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>13.3</b>	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>1,3,5-Trimethylbenzene</b>	<b>3.24</b>	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
Vinyl chloride	ND	0.400	0.800	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>m,p-Xylene</b>	<b>9.36</b>	1.00	2.00	ug/L	2	07/20/22 21:35	EPA 8260D	
<b>o-Xylene</b>	<b>12.3</b>	0.500	1.00	ug/L	2	07/20/22 21:35	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/22 21:35</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 21:35</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 21:35</i>	<i>EPA 8260D</i>

**TPI-072022-92 (A2G0560-09RE1) Matrix: Water Batch: 22G0698**

Apex Laboratories

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TPI-072022-92 (A2G0560-09RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
Acetone	ND	20.0	40.0	ug/L	2	07/22/22 01:17	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>Benzene</b>	<b>104</b>	0.200	0.400	ug/L	2	07/22/22 01:17	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	07/22/22 01:17	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	07/22/22 01:17	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	07/22/22 01:17	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	07/22/22 01:17	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	07/22/22 01:17	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	07/22/22 01:17	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>cis-1,2-Dichloroethene</b>	<b>0.560</b>	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	<b>J</b>
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TPI-072022-92 (A2G0560-09RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>Ethylbenzene</b>	<b>14.9</b>	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	07/22/22 01:17	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>Isopropylbenzene</b>	<b>1.12</b>	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	J
<b>4-Isopropyltoluene</b>	<b>1.18</b>	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	J
Methylene chloride	ND	10.0	20.0	ug/L	2	07/22/22 01:17	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	10.0	20.0	ug/L	2	07/22/22 01:17	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>Toluene</b>	<b>2.66</b>	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	07/22/22 01:17	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>6.04</b>	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>1,3,5-Trimethylbenzene</b>	<b>1.86</b>	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	J
Vinyl chloride	ND	0.400	0.800	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>m,p-Xylene</b>	<b>6.96</b>	1.00	2.00	ug/L	2	07/22/22 01:17	EPA 8260D	
<b>o-Xylene</b>	<b>6.76</b>	0.500	1.00	ug/L	2	07/22/22 01:17	EPA 8260D	

Surrogate: 1,4-Difluorobenzene (Surr)      Recovery: 94 %      Limits: 80-120 %      1      07/22/22 01:17      EPA 8260D

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TPI-072022-92 (A2G0560-09RE1)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0698</b>		
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/22/22 01:17</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/22/22 01:17</i>	<i>EPA 8260D</i>
<b>PGAC-072022-92 (A2G0560-10)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
<b>Acetone</b>	<b>20.1</b>	10.0	20.0	ug/L	1	07/20/22 18:45	EPA 8260D	<b>Q-54h</b>
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>Benzene</b>	<b>80.3</b>	0.100	0.200	ug/L	1	07/20/22 18:45	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>Bromodichloromethane</b>	<b>24.5</b>	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	07/20/22 18:45	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/20/22 18:45	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/20/22 18:45	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>Chlorobenzene</b>	<b>0.580</b>	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>Chloroform</b>	<b>146</b>	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>2-Chlorotoluene</b>	<b>0.800</b>	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	<b>J</b>
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>Dibromochloromethane</b>	<b>2.20</b>	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>PGAC-072022-92 (A2G0560-10)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0610</b>		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>cis-1,2-Dichloroethene</b>	<b>0.450</b>	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>Ethylbenzene</b>	<b>5.21</b>	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/20/22 18:45	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/20/22 18:45	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	07/20/22 18:45	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>Methyl tert-butyl ether (MTBE)</b>	<b>0.660</b>	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	
<b>Toluene</b>	<b>0.920</b>	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	07/20/22 18:45	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>PGAC-072022-92 (A2G0560-10)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
m,p-Xylene	ND	0.500	1.00	ug/L	1	07/20/22 18:45	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	07/20/22 18:45	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/22 18:45</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 18:45</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 18:45</i>	<i>EPA 8260D</i>
<b>GACM1-072022-92 (A2G0560-11)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
Acetone	ND	10.0	20.0	ug/L	1	07/20/22 19:06	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/20/22 19:06	EPA 8260D	
<b>Benzene</b>	<b>0.500</b>	0.100	0.200	ug/L	1	07/20/22 19:06	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
<b>Bromodichloromethane</b>	<b>29.7</b>	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
<b>Bromoform</b>	<b>0.660</b>	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	<b>J</b>
Bromomethane	ND	5.00	5.00	ug/L	1	07/20/22 19:06	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/20/22 19:06	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/20/22 19:06	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	07/20/22 19:06	EPA 8260D	
<b>Chloroform</b>	<b>166</b>	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/20/22 19:06	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
<b>Dibromochloromethane</b>	<b>4.59</b>	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACM1-072022-92 (A2G0560-11)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/20/22 19:06	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/20/22 19:06	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	07/20/22 19:06	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	07/20/22 19:06	EPA 8260D	
<b>Methyl tert-butyl ether (MTBE)</b>	<b>0.980</b>	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	<b>J</b>
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/20/22 19:06	EPA 8260D	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACM1-072022-92 (A2G0560-11)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
<b>Vinyl chloride</b>	<b>0.200</b>	0.200	0.400	ug/L	1	07/20/22 19:06	EPA 8260D	<b>J</b>
m,p-Xylene	ND	0.500	1.00	ug/L	1	07/20/22 19:06	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	07/20/22 19:06	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/22 19:06</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 19:06</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 19:06</i>	<i>EPA 8260D</i>
<b>GACF1-072022-92 (A2G0560-12)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
Acetone	ND	10.0	20.0	ug/L	1	07/20/22 19:28	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/20/22 19:28	EPA 8260D	
<b>Benzene</b>	<b>0.120</b>	0.100	0.200	ug/L	1	07/20/22 19:28	EPA 8260D	<b>J</b>
Bromobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
<b>Bromodichloromethane</b>	<b>19.5</b>	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	07/20/22 19:28	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/20/22 19:28	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/20/22 19:28	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	07/20/22 19:28	EPA 8260D	
<b>Chloroform</b>	<b>135</b>	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/20/22 19:28	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
<b>Dibromochloromethane</b>	<b>2.21</b>	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/20/22 19:28	EPA 8260D	

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503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACF1-072022-92 (A2G0560-12)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0610</b>		
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/20/22 19:28	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/20/22 19:28	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	07/20/22 19:28	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	07/20/22 19:28	EPA 8260D	
<b>Methyl tert-butyl ether (MTBE)</b>	<b>0.880</b>	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	<b>J</b>
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/20/22 19:28	EPA 8260D	

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ANALYTICAL REPORT

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503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACF1-072022-92 (A2G0560-12)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0610</b>		
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	07/20/22 19:28	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	07/20/22 19:28	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	07/20/22 19:28	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/22 19:28</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 19:28</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/22 19:28</i>	<i>EPA 8260D</i>

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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503-718-2323  
ORELAP ID: OR100062

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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SI-072022-92 (A2G0560-01)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Acenaphthene	96.2	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	<b>B</b>
Acenaphthylene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
<b>Anthracene</b>	<b>14.0</b>	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	<b>J</b>
Benz(a)anthracene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
Benzo(a)pyrene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
Chrysene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
Fluoranthene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
<b>Fluorene</b>	<b>25.9</b>	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	<b>B-02</b>
Indeno(1,2,3-cd)pyrene	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
<b>1-Methylnaphthalene</b>	<b>157</b>	19.6	39.2	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
<b>2-Methylnaphthalene</b>	<b>193</b>	19.6	39.2	ug/L	500	07/26/22 19:32	EPA 8270E SIM	<b>B-02</b>
<b>Naphthalene</b>	<b>2610</b>	19.6	39.2	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
<b>Phenanthrene</b>	<b>54.4</b>	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	<b>B-02</b>
<b>Pyrene</b>	<b>9.90</b>	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	<b>J</b>
Dibenzofuran	ND	9.80	19.6	ug/L	500	07/26/22 19:32	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 44-120 %</i>	500	07/26/22 19:32	EPA 8270E SIM	S-01
<i>p-Terphenyl-d14 (Surr)</i>		<i>%</i>		<i>50-134 %</i>	500	07/26/22 19:32	EPA 8270E SIM	S-01

<b>SE-072022-92 (A2G0560-02)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Acenaphthene	121	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	<b>B</b>
Acenaphthylene	ND	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
<b>Anthracene</b>	<b>17.6</b>	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
<b>Benz(a)anthracene</b>	<b>8.07</b>	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
<b>Benzo(a)pyrene</b>	<b>7.04</b>	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	<b>J</b>
<b>Benzo(b)fluoranthene</b>	<b>6.19</b>	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	<b>J</b>
Benzo(k)fluoranthene	ND	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
<b>Benzo(g,h,i)perylene</b>	<b>5.05</b>	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	<b>J</b>
<b>Chrysene</b>	<b>9.14</b>	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	

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**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SE-072022-92 (A2G0560-02)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Fluoranthene	34.9	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
Fluorene	45.2	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	B-02
Indeno(1,2,3-cd)pyrene	5.92	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	J
1-Methylnaphthalene	131	7.92	15.8	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
2-Methylnaphthalene	116	7.92	15.8	ug/L	200	07/26/22 19:57	EPA 8270E SIM	B-02
Naphthalene	1000	7.92	15.8	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
Phenanthrene	115	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	B-02
Pyrene	38.9	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	
Dibenzofuran	6.92	3.96	7.92	ug/L	200	07/26/22 19:57	EPA 8270E SIM	J
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 56 %</i>		<i>Limits: 44-120 %</i>	<i>200</i>	<i>07/26/22 19:57</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>57 %</i>		<i>50-134 %</i>	<i>200</i>	<i>07/26/22 19:57</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<b>KOP-072022-92 (A2G0560-03)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Acenaphthene	ND	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Acenaphthylene	0.243	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Anthracene	0.854	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Benz(a)anthracene	0.208	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Benzo(a)pyrene	0.266	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Benzo(b)fluoranthene	0.354	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Benzo(k)fluoranthene	0.125	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	J
Benzo(g,h,i)perylene	0.231	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Chrysene	0.281	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Fluoranthene	0.412	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Fluorene	ND	0.152	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	0.264	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.152	0.305	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.152	0.305	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Naphthalene	0.153	0.152	0.305	ug/L	4	07/26/22 20:23	EPA 8270E SIM	J
Phenanthrene	0.251	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	B-02
Pyrene	0.472	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
Dibenzofuran	ND	0.0762	0.152	ug/L	4	07/26/22 20:23	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 67 %</i>		<i>Limits: 44-120 %</i>	<i>4</i>	<i>07/26/22 20:23</i>	<i>EPA 8270E SIM</i>	

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ANALYTICAL REPORT

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<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
<b>KOP-072022-92 (A2G0560-03)</b>			<b>Matrix: Water</b>		<b>Batch: 22G0851</b>				
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 56 %</i>		<i>Limits: 50-134 %</i>		<i>4</i>		<i>07/26/22 20:23</i>	<i>EPA 8270E SIM</i>
<b>NWI-072022-92 (A2G0560-04)</b>			<b>Matrix: Water</b>		<b>Batch: 22G0851</b>				
<b>Acenaphthene</b>	<b>13.2</b>	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM	<b>B</b>	
Acenaphthylene	ND	1.98	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
<b>Anthracene</b>	<b>6.15</b>	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
Benz(a)anthracene	ND	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
Benzo(a)pyrene	ND	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
Benzo(b)fluoranthene	ND	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
Benzo(k)fluoranthene	ND	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
Benzo(g,h,i)perylene	ND	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
Chrysene	ND	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
<b>Fluoranthene</b>	<b>6.16</b>	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
<b>Fluorene</b>	<b>6.99</b>	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM	<b>B-02</b>	
Indeno(1,2,3-cd)pyrene	ND	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
<b>1-Methylnaphthalene</b>	<b>19.6</b>	1.98	3.96	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
<b>2-Methylnaphthalene</b>	<b>25.6</b>	1.98	3.96	ug/L	50	07/26/22 20:48	EPA 8270E SIM	<b>B-02</b>	
<b>Naphthalene</b>	<b>157</b>	1.98	3.96	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
<b>Phenanthrene</b>	<b>28.0</b>	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM	<b>B-02</b>	
<b>Pyrene</b>	<b>6.98</b>	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM		
<b>Dibenzofuran</b>	<b>1.85</b>	0.990	1.98	ug/L	50	07/26/22 20:48	EPA 8270E SIM	<b>J</b>	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 59 %</i>		<i>Limits: 44-120 %</i>		<i>50</i>		<i>07/26/22 20:48</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>71 %</i>		<i>50-134 %</i>		<i>50</i>		<i>07/26/22 20:48</i>	<i>EPA 8270E SIM</i>

<b>NWE-072022-92 (A2G0560-05)</b>			<b>Matrix: Water</b>		<b>Batch: 22G0851</b>			
Acenaphthene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	
Acenaphthylene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	
Anthracene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	
Benz(a)anthracene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	

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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
<b>NWE-072022-92 (A2G0560-05)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>			
Chrysene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
<b>Fluoranthene</b>	<b>2.02</b>	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
<b>Fluorene</b>	<b>2.96</b>	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	<b>B-02</b>	
Indeno(1,2,3-cd)pyrene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
<b>1-Methylnaphthalene</b>	<b>5.06</b>	1.62	3.23	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
2-Methylnaphthalene	ND	1.62	3.23	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
Naphthalene	ND	1.62	3.23	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
<b>Phenanthrene</b>	<b>7.17</b>	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM	<b>B-02</b>	
Pyrene	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
Dibenzofuran	ND	0.808	1.62	ug/L	40	07/26/22 21:14	EPA 8270E SIM		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 59 %</i>		<i>Limits: 44-120 %</i>		<i>40</i>	<i>07/26/22 21:14</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>74 %</i>		<i>50-134 %</i>		<i>40</i>	<i>07/26/22 21:14</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

<b>TWIA-072022-92 (A2G0560-06)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
<b>Acenaphthene</b>	<b>106</b>	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	<b>B</b>
Acenaphthylene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
<b>Anthracene</b>	<b>4.31</b>	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	<b>J</b>
Benz(a)anthracene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
Benzo(a)pyrene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
Chrysene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
<b>Fluoranthene</b>	<b>7.35</b>	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	<b>J</b>
<b>Fluorene</b>	<b>13.0</b>	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	<b>B-02</b>
Indeno(1,2,3-cd)pyrene	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
<b>1-Methylnaphthalene</b>	<b>79.9</b>	7.62	15.2	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
<b>2-Methylnaphthalene</b>	<b>22.9</b>	7.62	15.2	ug/L	200	07/26/22 21:39	EPA 8270E SIM	<b>B-02</b>
<b>Naphthalene</b>	<b>1050</b>	7.62	15.2	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
<b>Phenanthrene</b>	<b>11.7</b>	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	<b>B-02</b>
<b>Pyrene</b>	<b>7.55</b>	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	<b>J</b>

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ANALYTICAL REPORT

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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TWIA-072022-92 (A2G0560-06)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Dibenzofuran	ND	3.81	7.62	ug/L	200	07/26/22 21:39	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 56 %</i>		<i>Limits: 44-120 %</i>	<i>200</i>	<i>07/26/22 21:39</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>76 %</i>		<i>50-134 %</i>	<i>200</i>	<i>07/26/22 21:39</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<b>TWIB-072022-92 (A2G0560-07)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Acenaphthene	<b>1100</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	<b>B</b>
Acenaphthylene	ND	64.5	64.5	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	R-02
Anthracene	<b>405</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Benz(a)anthracene	<b>136</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Benzo(a)pyrene	<b>126</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Benzo(b)fluoranthene	<b>119</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Benzo(k)fluoranthene	<b>34.7</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	<b>J</b>
Benzo(g,h,i)perylene	<b>88.4</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Chrysene	<b>194</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Fluoranthene	<b>749</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Fluorene	<b>439</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	<b>B-02</b>
Indeno(1,2,3-cd)pyrene	<b>86.1</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
1-Methylnaphthalene	<b>1300</b>	43.0	86.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
2-Methylnaphthalene	<b>1790</b>	43.0	86.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	<b>B-02</b>
Naphthalene	<b>4090</b>	43.0	86.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Phenanthrene	<b>1950</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	<b>B-02</b>
Pyrene	<b>909</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	
Dibenzofuran	<b>76.0</b>	21.5	43.0	ug/L	1000	07/26/22 22:05	EPA 8270E SIM	<b>B-02</b>
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 44-120 %</i>	<i>1000</i>	<i>07/26/22 22:05</i>	<i>EPA 8270E SIM</i>	<i>S-01</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>%</i>		<i>50-134 %</i>	<i>1000</i>	<i>07/26/22 22:05</i>	<i>EPA 8270E SIM</i>	<i>S-01</i>
<b>TWE-072022-92 (A2G0560-08)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Acenaphthene	<b>422</b>	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	<b>B</b>
Acenaphthylene	ND	16.5	16.5	ug/L	100	07/26/22 22:30	EPA 8270E SIM	R-02
Anthracene	<b>100</b>	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	
Benz(a)anthracene	<b>40.7</b>	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	
Benzo(a)pyrene	<b>40.0</b>	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	

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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>			
<b>TWE-072022-92 (A2G0560-08)</b>									
Benzo(b)fluoranthene	34.6	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM		
Benzo(k)fluoranthene	9.85	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	M-05	
Benzo(g,h,i)perylene	27.2	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM		
Chrysene	55.2	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM		
Dibenz(a,h)anthracene	2.53	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	J	
Fluoranthene	233	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM		
Fluorene	177	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	B-02	
Indeno(1,2,3-cd)pyrene	26.1	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM		
1-Methylnaphthalene	426	4.12	8.25	ug/L	100	07/26/22 22:30	EPA 8270E SIM		
2-Methylnaphthalene	465	4.12	8.25	ug/L	100	07/26/22 22:30	EPA 8270E SIM	B-02	
Naphthalene	580	4.12	8.25	ug/L	100	07/26/22 22:30	EPA 8270E SIM		
Phenanthrene	641	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	B-02	
Pyrene	275	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM		
Dibenzofuran	31.1	2.06	4.12	ug/L	100	07/26/22 22:30	EPA 8270E SIM	B-02	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 65 %</i>		<i>Limits: 44-120 %</i>		<i>100</i>	<i>07/26/22 22:30</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>52 %</i>		<i>50-134 %</i>		<i>100</i>	<i>07/26/22 22:30</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
<b>TPI-072022-92 (A2G0560-09)</b>								
Acenaphthene	200	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	B
Acenaphthylene	ND	6.77	6.77	ug/L	50	07/26/22 22:56	EPA 8270E SIM	R-02
Anthracene	38.7	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
Benz(a)anthracene	11.2	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
Benzo(a)pyrene	10.2	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
Benzo(b)fluoranthene	8.96	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
Benzo(k)fluoranthene	3.24	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	M-05
Benzo(g,h,i)perylene	7.26	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
Chrysene	14.9	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
Fluoranthene	69.3	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
Fluorene	81.7	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	B-02
Indeno(1,2,3-cd)pyrene	7.13	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
1-Methylnaphthalene	163	2.08	4.17	ug/L	50	07/26/22 22:56	EPA 8270E SIM	
2-Methylnaphthalene	98.1	2.08	4.17	ug/L	50	07/26/22 22:56	EPA 8270E SIM	B-02

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ANALYTICAL REPORT

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
<b>TPI-072022-92 (A2G0560-09)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>			
Naphthalene	<b>198</b>	2.08	4.17	ug/L	50	07/26/22 22:56	EPA 8270E SIM		
Phenanthrene	<b>249</b>	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	<b>B-02</b>	
Pyrene	<b>80.1</b>	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM		
Dibenzofuran	<b>12.9</b>	1.04	2.08	ug/L	50	07/26/22 22:56	EPA 8270E SIM	<b>B-02</b>	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 61 %</i>		<i>Limits: 44-120 %</i>		<i>50</i>	<i>07/26/22 22:56</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>58 %</i>		<i>50-134 %</i>		<i>50</i>	<i>07/26/22 22:56</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

<b>PGAC-072022-92 (A2G0560-10)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>			
Acenaphthene	ND	0.415	0.415	ug/L	4	07/26/22 23:21	EPA 8270E SIM	R-02	
Acenaphthylene	ND	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
Anthracene	ND	0.264	0.264	ug/L	4	07/26/22 23:21	EPA 8270E SIM	R-02	
Benz(a)anthracene	ND	0.377	0.377	ug/L	4	07/26/22 23:21	EPA 8270E SIM	R-02	
Benzo(a)pyrene	ND	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
<b>Benzo(b)fluoranthene</b>	<b>0.106</b>	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM	<b>J</b>	
Benzo(k)fluoranthene	ND	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
Benzo(g,h,i)perylene	ND	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
Chrysene	ND	0.377	0.377	ug/L	4	07/26/22 23:21	EPA 8270E SIM	R-02	
Dibenz(a,h)anthracene	ND	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
<b>Fluoranthene</b>	<b>0.503</b>	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
Fluorene	ND	36.2	36.2	ug/L	4	07/26/22 23:21	EPA 8270E SIM	R-02	
Indeno(1,2,3-cd)pyrene	ND	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
1-Methylnaphthalene	ND	0.151	0.302	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
2-Methylnaphthalene	ND	0.151	0.302	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
<b>Naphthalene</b>	<b>11.7</b>	0.151	0.302	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
<b>Phenanthrene</b>	<b>0.173</b>	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM	<b>B-02</b>	
Pyrene	ND	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM		
<b>Dibenzofuran</b>	<b>9.31</b>	0.0755	0.151	ug/L	4	07/26/22 23:21	EPA 8270E SIM	<b>B-02</b>	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 66 %</i>		<i>Limits: 44-120 %</i>		<i>4</i>	<i>07/26/22 23:21</i>	<i>EPA 8270E SIM</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>53 %</i>		<i>50-134 %</i>		<i>4</i>	<i>07/26/22 23:21</i>	<i>EPA 8270E SIM</i>	

<b>GACM1-072022-92 (A2G0560-11)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Acenaphthene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Acenaphthylene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
<b>Anthracene</b>	<b>0.0333</b>	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	<b>J</b>

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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACM1-072022-92 (A2G0560-11)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Benz(a)anthracene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Chrysene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Fluoranthene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Fluorene	ND	0.0472	0.0472	ug/L	1	07/26/22 23:47	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Naphthalene	ND	0.0377	0.0755	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Phenanthrene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Pyrene	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
Dibenzofuran	ND	0.0189	0.0377	ug/L	1	07/26/22 23:47	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 59 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>07/26/22 23:47</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>59 %</i>		<i>50-134 %</i>		<i>1</i>	<i>07/26/22 23:47</i>	<i>EPA 8270E SIM</i>

<b>GACF1-072022-92 (A2G0560-12)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
Acenaphthene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Acenaphthylene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Anthracene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Chrysene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Fluoranthene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Fluorene	ND	0.0377	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	

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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACF1-072022-92 (A2G0560-12)</b>			<b>Matrix: Water</b>			<b>Batch: 22G0851</b>		
1-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
<b>Naphthalene</b>	<b>0.0388</b>	0.0377	0.0755	ug/L	1	07/27/22 00:12	EPA 8270E SIM	<b>J</b>
Phenanthrene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Pyrene	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
Dibenzofuran	ND	0.0189	0.0377	ug/L	1	07/27/22 00:12	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 70 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>07/27/22 00:12</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>67 %</i>		<i>50-134 %</i>		<i>1</i>	<i>07/27/22 00:12</i>	<i>EPA 8270E SIM</i>

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Darwin Thomas, Business Development Director



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**ANALYTICAL SAMPLE RESULTS**

**Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAf) by EPA 1631E**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SI-072022-92 (A2G0560-01)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	ND	0.000500	0.00100	ug/L	1	07/26/22 17:31	EPA 1631E-LL	
<b>KOP-072022-92 (A2G0560-03)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	<b>0.000892</b>	0.000500	0.00100	ug/L	1	07/26/22 17:46	EPA 1631E-LL	<b>J</b>
<b>NWI-072022-92 (A2G0560-04)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	ND	0.000500	0.00100	ug/L	1	07/26/22 17:51	EPA 1631E-LL	
<b>TWIA-072022-92 (A2G0560-06)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	ND	0.000500	0.00100	ug/L	1	07/26/22 17:56	EPA 1631E-LL	
<b>TWIB-072022-92 (A2G0560-07)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	ND	0.000500	0.00100	ug/L	1	07/26/22 18:11	EPA 1631E-LL	
<b>TPI-072022-92 (A2G0560-09)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	ND	0.000500	0.00100	ug/L	1	07/26/22 18:16	EPA 1631E-LL	
<b>PGAC-072022-92 (A2G0560-10)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	<b>0.00194</b>	0.000500	0.00100	ug/L	1	07/26/22 18:21	EPA 1631E-LL	<b>B-02</b>
<b>GACM1-072022-92 (A2G0560-11)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	<b>0.00148</b>	0.000500	0.00100	ug/L	1	07/26/22 18:26	EPA 1631E-LL	<b>B-02</b>
<b>GACF1-072022-92 (A2G0560-12)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0787</b>		
Mercury	<b>0.00124</b>	0.000500	0.00100	ug/L	1	07/26/22 18:31	EPA 1631E-LL	<b>B-02</b>

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**ANALYTICAL SAMPLE RESULTS**

**Total Metals by EPA 6020B (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SI-072022-92 (A2G0560-01)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
<b>Iron</b>	<b>32400</b>	125	250	ug/L	5	07/22/22 18:50	EPA 6020B	
<b>SI-072022-92 (A2G0560-01RE1)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	1.00	2.00	ug/L	1	07/25/22 13:19	EPA 6020B	
<b>SE-072022-92 (A2G0560-02)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	5.00	10.0	ug/L	5	07/22/22 18:55	EPA 6020B	R-04
<b>Iron</b>	<b>34600</b>	125	250	ug/L	5	07/22/22 18:55	EPA 6020B	
<b>KOP-072022-92 (A2G0560-03)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
<b>Iron</b>	<b>4000</b>	125	250	ug/L	5	07/22/22 18:59	EPA 6020B	
<b>KOP-072022-92 (A2G0560-03RE1)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	1.00	2.00	ug/L	1	07/25/22 13:24	EPA 6020B	
<b>NWI-072022-92 (A2G0560-04)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	5.00	10.0	ug/L	5	07/22/22 19:04	EPA 6020B	R-04
<b>Iron</b>	<b>56600</b>	125	250	ug/L	5	07/22/22 19:04	EPA 6020B	
<b>NWE-072022-92 (A2G0560-05)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	5.00	10.0	ug/L	5	07/22/22 19:09	EPA 6020B	R-04
<b>Iron</b>	<b>50700</b>	125	250	ug/L	5	07/22/22 19:09	EPA 6020B	
<b>TWIA-072022-92 (A2G0560-06)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
<b>Iron</b>	<b>29500</b>	125	250	ug/L	5	07/22/22 19:14	EPA 6020B	
<b>TWIA-072022-92 (A2G0560-06RE1)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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Tigard, OR 97223  
503-718-2323  
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<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**ANALYTICAL SAMPLE RESULTS**

**Total Metals by EPA 6020B (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TWIA-072022-92 (A2G0560-06RE1)</b>				<b>Matrix: Water</b>				
Copper	ND	1.00	2.00	ug/L	1	07/25/22 13:39	EPA 6020B	
<b>TWIB-072022-92 (A2G0560-07)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Iron	<b>49700</b>	125	250	ug/L	5	07/22/22 19:19	EPA 6020B	
<b>TWIB-072022-92 (A2G0560-07RE1)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	<b>1.88</b>	1.00	2.00	ug/L	1	07/25/22 13:43	EPA 6020B	<b>J</b>
<b>TWE-072022-92 (A2G0560-08)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	5.00	10.0	ug/L	5	07/22/22 19:24	EPA 6020B	R-04
Iron	<b>48900</b>	125	250	ug/L	5	07/22/22 19:24	EPA 6020B	
<b>TPI-072022-92 (A2G0560-09)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	5.00	10.0	ug/L	5	07/22/22 19:28	EPA 6020B	R-04
Iron	<b>42600</b>	125	250	ug/L	5	07/22/22 19:28	EPA 6020B	
<b>PGAC-072022-92 (A2G0560-10)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	5.00	10.0	ug/L	5	07/22/22 19:43	EPA 6020B	R-04
Iron	<b>150</b>	125	250	ug/L	5	07/22/22 19:43	EPA 6020B	<b>R-04, J</b>
<b>GACM1-072022-92 (A2G0560-11)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Copper	ND	5.00	10.0	ug/L	5	07/22/22 19:48	EPA 6020B	R-04
Iron	ND	125	250	ug/L	5	07/22/22 19:48	EPA 6020B	R-04
<b>GACF1-072022-92 (A2G0560-12)</b>				<b>Matrix: Water</b>				
Batch: 22G0737								
Arsenic	<b>1.79</b>	0.500	1.00	ug/L	1	07/22/22 19:53	EPA 6020B	
Barium	<b>10.7</b>	1.00	2.00	ug/L	1	07/22/22 19:53	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	07/22/22 19:53	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	07/22/22 19:53	EPA 6020B	

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**ANALYTICAL SAMPLE RESULTS**

**Total Metals by EPA 6020B (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACF1-072022-92 (A2G0560-12)</b>				<b>Matrix: Water</b>				
Copper	ND	1.00	2.00	ug/L	1	07/22/22 19:53	EPA 6020B	
<b>Iron</b>	<b>183</b>	25.0	50.0	ug/L	1	07/22/22 19:53	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	07/22/22 19:53	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	07/22/22 19:53	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	07/22/22 19:53	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	07/22/22 19:53	EPA 6020B	

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**ANALYTICAL SAMPLE RESULTS**

**HEM (Oil and Grease) and SGT-HEM by EPA 1664B**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SI-072022-92 (A2G0560-01)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	ND	4720	4720	ug/L	1	07/27/22 17:15	EPA 1664B	
<b>SE-072022-92 (A2G0560-02)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	ND	4720	4720	ug/L	1	07/27/22 17:15	EPA 1664B	PRES
<b>KOP-072022-92 (A2G0560-03)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	ND	4900	4900	ug/L	1	07/27/22 17:15	EPA 1664B	
<b>NWI-072022-92 (A2G0560-04)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	ND	4720	4720	ug/L	1	07/27/22 17:15	EPA 1664B	
<b>NWE-072022-92 (A2G0560-05)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	ND	4810	4810	ug/L	1	07/27/22 17:15	EPA 1664B	PRES
<b>TWIA-072022-92 (A2G0560-06)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	ND	4850	4850	ug/L	1	07/27/22 17:15	EPA 1664B	
<b>TWIB-072022-92 (A2G0560-07)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	<b>215000</b>	4810	4810	ug/L	1	07/27/22 17:15	EPA 1664B	
<b>TWE-072022-92 (A2G0560-08)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	<b>27500</b>	4720	4720	ug/L	1	07/27/22 17:15	EPA 1664B	PRES
<b>TPI-072022-92 (A2G0560-09)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0828</b>		
HEM (Oil and Grease)	<b>10000</b>	4720	4720	ug/L	1	07/27/22 17:15	EPA 1664B	PRES

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**ANALYTICAL SAMPLE RESULTS**

**Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>SI-072022-92 (A2G0560-01)</b>								
Total Cyanide	193	12.5	25.0	ug/L	5	07/22/22 11:14	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>SE-072022-92 (A2G0560-02)</b>								
Total Cyanide	194	12.5	25.0	ug/L	5	07/22/22 11:22	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>NWI-072022-92 (A2G0560-04)</b>								
Total Cyanide	126	12.5	25.0	ug/L	5	07/22/22 11:26	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>NWE-072022-92 (A2G0560-05)</b>								
Total Cyanide	129	12.5	25.0	ug/L	5	07/22/22 11:36	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>TWIA-072022-92 (A2G0560-06)</b>								
Total Cyanide	187	12.5	25.0	ug/L	5	07/22/22 11:38	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>TWIB-072022-92 (A2G0560-07)</b>								
Total Cyanide	92.3	12.5	25.0	ug/L	5	07/22/22 11:40	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>TWE-072022-92 (A2G0560-08)</b>								
Total Cyanide	132	12.5	25.0	ug/L	5	07/22/22 11:49	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>TPI-072022-92 (A2G0560-09)</b>								
Total Cyanide	146	12.5	25.0	ug/L	5	07/22/22 11:53	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>PGAC-072022-92 (A2G0560-10)</b>								
Total Cyanide	120	12.5	25.0	ug/L	5	07/22/22 11:55	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>GACM1-072022-92 (A2G0560-11)</b>								
Total Cyanide	140	12.5	25.0	ug/L	5	07/22/22 11:57	D7511-12	
				<b>Matrix: Water</b>		<b>Batch: 22G0711</b>		
<b>GACF1-072022-92 (A2G0560-12)</b>								
Total Cyanide	132	12.5	25.0	ug/L	5	07/22/22 12:01	D7511-12	

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**ANALYTICAL SAMPLE RESULTS**

**Available Cyanide by FIA, Ligand Exchange and Amperometric Detection**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACF1-072022-92 (A2G0560-12)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0681</b>		
Available Cyanide	<b>11.9</b>	1.00	2.00	ug/L	1	07/21/22 15:36	D6888-09	

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**ANALYTICAL SAMPLE RESULTS**

**Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GACF1-072022-92 (A2G0560-12)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0662</b>		
Free Cyanide	<b>9.98</b>	2.50	5.00	ug/L	1	07/21/22 13:22	D7237-10	

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**ANALYTICAL SAMPLE RESULTS**

**Solid and Moisture Determinations**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TPI-072022-92 (A2G0560-09)</b>				<b>Matrix: Water</b>				
Batch: 22G0716								
<b>Total Suspended Solids</b>	<b>404000</b>	50000	50000	ug/L	1	07/22/22 11:40	SM 2540 D	
<b>GACF1-072022-92 (A2G0560-12)</b>				<b>Matrix: Water</b>				
Batch: 22G0716								
<b>Total Suspended Solids</b>	ND	5000	5000	ug/L	1	07/22/22 11:40	SM 2540 D	SL-1

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**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0610-BLK1)</b>			Prepared: 07/20/22 15:00 Analyzed: 07/20/22 17:12									
<u>EPA 8260D</u>												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0610-BLK1)</b>			Prepared: 07/20/22 15:00 Analyzed: 07/20/22 17:12									
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)      Recovery: 97%      Limits: 80-120%      Dilution: 1x

Apex Laboratories

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Darwin Thomas, Business Development Director



**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b>	Project: <b>Gasco -- Monthly (2022)</b>	
2749 Lockport Road	Project Number: <b>000029-02-20-2</b>	<b>Report ID:</b>
Niagara Falls, NY 14305	Project Manager: <b>Chip Byrd</b>	<b>A2G0560 - 08 16 22 0839</b>

**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0610-BLK1)</b>						Prepared: 07/20/22 15:00 Analyzed: 07/20/22 17:12						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<b>LCS (22G0610-BS1)</b>						Prepared: 07/20/22 15:00 Analyzed: 07/20/22 16:29						
<b>EPA 8260D</b>												
Acetone	51.7	10.0	20.0	ug/L	1	40.0	---	129	80-120%	---	---	Q-56
Acrylonitrile	20.6	1.00	2.00	ug/L	1	20.0	---	103	80-120%	---	---	
Benzene	21.0	0.100	0.200	ug/L	1	20.0	---	105	80-120%	---	---	
Bromobenzene	18.1	0.250	0.500	ug/L	1	20.0	---	91	80-120%	---	---	
Bromochloromethane	23.3	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
Bromodichloromethane	23.3	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
Bromoform	22.7	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Bromomethane	23.0	5.00	5.00	ug/L	1	20.0	---	115	80-120%	---	---	
2-Butanone (MEK)	49.1	5.00	10.0	ug/L	1	40.0	---	123	80-120%	---	---	Q-56
n-Butylbenzene	23.2	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
sec-Butylbenzene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
tert-Butylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Carbon disulfide	20.4	5.00	10.0	ug/L	1	20.0	---	102	80-120%	---	---	
Carbon tetrachloride	23.0	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Chlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Chloroethane	21.4	5.00	5.00	ug/L	1	20.0	---	107	80-120%	---	---	
Chloroform	22.1	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Chloromethane	21.1	2.50	5.00	ug/L	1	20.0	---	106	80-120%	---	---	
2-Chlorotoluene	18.9	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
4-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Dibromochloromethane	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.8	2.50	5.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.3	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Dibromomethane	21.9	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2-Dichlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,3-Dichlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,4-Dichlorobenzene	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dichlorodifluoromethane	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	ICV-01
1,1-Dichloroethane	21.7	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
---	---	---

**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>LCS (22G0610-BS1)</b>			Prepared: 07/20/22 15:00 Analyzed: 07/20/22 16:29									
1,2-Dichloroethane (EDC)	22.5	0.200	0.400	ug/L	1	20.0	---	113	80-120%	---	---	
1,1-Dichloroethene	22.8	0.200	0.400	ug/L	1	20.0	---	114	80-120%	---	---	
cis-1,2-Dichloroethene	22.5	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
trans-1,2-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
1,2-Dichloropropane	22.4	0.250	0.500	ug/L	1	20.0	---	112	80-120%	---	---	
1,3-Dichloropropane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
2,2-Dichloropropane	24.6	0.500	1.00	ug/L	1	20.0	---	<b>123</b>	<b>80-120%</b>	---	---	Q-56
1,1-Dichloropropene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
cis-1,3-Dichloropropene	22.1	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
trans-1,3-Dichloropropene	23.6	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
Ethylbenzene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Hexachlorobutadiene	19.2	2.50	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
2-Hexanone	47.8	5.00	10.0	ug/L	1	40.0	---	119	80-120%	---	---	
Isopropylbenzene	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
4-Isopropyltoluene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Methylene chloride	20.0	5.00	10.0	ug/L	1	20.0	---	100	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	45.2	5.00	10.0	ug/L	1	40.0	---	113	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Naphthalene	19.6	1.00	2.00	ug/L	1	20.0	---	98	80-120%	---	---	
n-Propylbenzene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Styrene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,1,1,2-Tetrachloroethane	21.5	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Tetrachloroethene (PCE)	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
Toluene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,3-Trichlorobenzene	19.4	1.00	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2,4-Trichlorobenzene	18.9	1.00	2.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,1-Trichloroethane	22.9	0.200	0.400	ug/L	1	20.0	---	114	80-120%	---	---	
1,1,2-Trichloroethane	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Trichloroethene (TCE)	19.0	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
Trichlorofluoromethane	25.2	1.00	2.00	ug/L	1	20.0	---	<b>126</b>	<b>80-120%</b>	---	---	Q-56
1,2,3-Trichloropropane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2,4-Trimethylbenzene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,3,5-Trimethylbenzene	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>LCS (22G0610-BS1)</b>			Prepared: 07/20/22 15:00 Analyzed: 07/20/22 16:29									
Vinyl chloride	22.6	0.200	0.400	ug/L	1	20.0	---	113	80-120%	---	---	
m,p-Xylene	44.2	0.500	1.00	ug/L	1	40.0	---	110	80-120%	---	---	
o-Xylene	21.1	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>		<i>"</i>						

**Duplicate (22G0610-DUP1)** Prepared: 07/20/22 17:27 Analyzed: 07/20/22 22:59

**QC Source Sample: TWIB-072022-92 (A2G0560-07)**

**EPA 8260D**

Acetone	ND	1000	2000	ug/L	100	---	ND	---	---	---	30%
Acrylonitrile	ND	100	200	ug/L	100	---	ND	---	---	---	30%
Benzene	<b>10200</b>	10.0	20.0	ug/L	100	---	10500	---	---	3	30%
Bromobenzene	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%
Bromochloromethane	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
Bromodichloromethane	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
Bromoform	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
Bromomethane	ND	500	500	ug/L	100	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	500	1000	ug/L	100	---	ND	---	---	---	30%
n-Butylbenzene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
sec-Butylbenzene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
tert-Butylbenzene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
Carbon disulfide	ND	500	1000	ug/L	100	---	ND	---	---	---	30%
Carbon tetrachloride	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
Chlorobenzene	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%
Chloroethane	ND	500	500	ug/L	100	---	ND	---	---	---	30%
Chloroform	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
Chloromethane	ND	250	500	ug/L	100	---	ND	---	---	---	30%
2-Chlorotoluene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
4-Chlorotoluene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
Dibromochloromethane	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	250	500	ug/L	100	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%
Dibromomethane	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%

Apex Laboratories

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>Duplicate (22G0610-DUP1)</b>			Prepared: 07/20/22 17:27 Analyzed: 07/20/22 22:59									
<b>QC Source Sample: TWIB-072022-92 (A2G0560-07)</b>												
1,2-Dichlorobenzene	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
Ethylbenzene	<b>594</b>	25.0	50.0	ug/L	100	---	616	---	---	4	30%	
Hexachlorobutadiene	ND	250	500	ug/L	100	---	ND	---	---	---	30%	
2-Hexanone	ND	500	1000	ug/L	100	---	ND	---	---	---	30%	
Isopropylbenzene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
Methylene chloride	ND	500	1000	ug/L	100	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	500	1000	ug/L	100	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
Naphthalene	<b>4020</b>	100	200	ug/L	100	---	4180	---	---	4	30%	
n-Propylbenzene	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%	
Styrene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
Toluene	<b>264</b>	25.0	50.0	ug/L	100	---	267	---	---	1	30%	
1,2,3-Trichlorobenzene	ND	100	200	ug/L	100	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	100	200	ug/L	100	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>Duplicate (22G0610-DUP1)</b>			Prepared: 07/20/22 17:27 Analyzed: 07/20/22 22:59									
<b>QC Source Sample: TWIB-072022-92 (A2G0560-07)</b>												
1,1,2-Trichloroethane	ND	25.0	50.0	ug/L	100	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	100	200	ug/L	100	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	<b>116</b>	50.0	100	ug/L	100	---	117	---	---	0.9	30%	
1,3,5-Trimethylbenzene	ND	50.0	100	ug/L	100	---	ND	---	---	---	30%	
Vinyl chloride	ND	20.0	40.0	ug/L	100	---	ND	---	---	---	30%	
m,p-Xylene	<b>174</b>	50.0	100	ug/L	100	---	181	---	---	4	30%	
o-Xylene	<b>180</b>	25.0	50.0	ug/L	100	---	191	---	---	6	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 128 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>		S-06				
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						

<b>Matrix Spike (22G0610-MS1)</b>			Prepared: 07/20/22 17:27 Analyzed: 07/20/22 18:03									
<b>QC Source Sample: Non-SDG (A2G0552-01)</b>												
<b>EPA 8260D</b>												
Acetone	54.0	10.0	20.0	ug/L	1	40.0	ND	106	39-160%	---	---	Q-54h
Acrylonitrile	20.3	1.00	2.00	ug/L	1	20.0	ND	101	63-135%	---	---	
Benzene	21.8	0.100	0.200	ug/L	1	20.0	ND	109	79-120%	---	---	
Bromobenzene	18.3	0.250	0.500	ug/L	1	20.0	ND	92	80-120%	---	---	
Bromochloromethane	23.5	0.500	1.00	ug/L	1	20.0	ND	117	78-123%	---	---	
Bromodichloromethane	24.1	0.500	1.00	ug/L	1	20.0	ND	120	79-125%	---	---	
Bromoform	22.3	0.500	1.00	ug/L	1	20.0	ND	112	66-130%	---	---	
Bromomethane	24.8	5.00	5.00	ug/L	1	20.0	ND	124	53-141%	---	---	
2-Butanone (MEK)	44.1	5.00	10.0	ug/L	1	40.0	ND	110	56-143%	---	---	Q-54c
n-Butylbenzene	25.3	0.500	1.00	ug/L	1	20.0	ND	126	75-128%	---	---	
sec-Butylbenzene	23.8	0.500	1.00	ug/L	1	20.0	ND	119	77-126%	---	---	
tert-Butylbenzene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	78-124%	---	---	
Carbon disulfide	22.7	5.00	10.0	ug/L	1	20.0	ND	114	64-133%	---	---	
Carbon tetrachloride	24.8	0.500	1.00	ug/L	1	20.0	ND	124	72-136%	---	---	
Chlorobenzene	20.5	0.250	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
Chloroethane	24.9	5.00	5.00	ug/L	1	20.0	ND	125	60-138%	---	---	
Chloroform	24.5	0.500	1.00	ug/L	1	20.0	1.15	117	79-124%	---	---	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>Matrix Spike (22G0610-MS1)</b>			Prepared: 07/20/22 17:27 Analyzed: 07/20/22 18:03									
<b>QC Source Sample: Non-SDG (A2G0552-01)</b>												
Chloromethane	22.7	2.50	5.00	ug/L	1	20.0	ND	114	50-139%	---	---	
2-Chlorotoluene	20.0	0.500	1.00	ug/L	1	20.0	ND	100	79-122%	---	---	
4-Chlorotoluene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	78-122%	---	---	
Dibromochloromethane	21.5	0.500	1.00	ug/L	1	20.0	ND	108	74-126%	---	---	
1,2-Dibromo-3-chloropropane	19.5	2.50	5.00	ug/L	1	20.0	ND	97	62-128%	---	---	
1,2-Dibromoethane (EDB)	20.6	0.250	0.500	ug/L	1	20.0	ND	103	77-121%	---	---	
Dibromomethane	22.2	0.500	1.00	ug/L	1	20.0	ND	111	79-123%	---	---	
1,2-Dichlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
1,3-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	ND	102	80-120%	---	---	
1,4-Dichlorobenzene	20.5	0.250	0.500	ug/L	1	20.0	ND	103	79-120%	---	---	
Dichlorodifluoromethane	24.7	0.500	1.00	ug/L	1	20.0	ND	124	32-152%	---	---	ICV-01
1,1-Dichloroethane	22.7	0.200	0.400	ug/L	1	20.0	ND	114	77-125%	---	---	
1,2-Dichloroethane (EDC)	22.8	0.200	0.400	ug/L	1	20.0	ND	114	73-128%	---	---	
1,1-Dichloroethene	25.1	0.200	0.400	ug/L	1	20.0	ND	125	71-131%	---	---	
cis-1,2-Dichloroethene	23.8	0.200	0.400	ug/L	1	20.0	ND	119	78-123%	---	---	
trans-1,2-Dichloroethene	23.2	0.200	0.400	ug/L	1	20.0	ND	116	75-124%	---	---	
1,2-Dichloropropane	22.5	0.250	0.500	ug/L	1	20.0	ND	112	78-122%	---	---	
1,3-Dichloropropane	20.6	0.500	1.00	ug/L	1	20.0	ND	103	80-120%	---	---	
2,2-Dichloropropane	27.0	0.500	1.00	ug/L	1	20.0	ND	135	60-139%	---	---	Q-54c
1,1-Dichloropropene	24.1	0.500	1.00	ug/L	1	20.0	ND	120	79-125%	---	---	
cis-1,3-Dichloropropene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	75-124%	---	---	
trans-1,3-Dichloropropene	24.1	0.500	1.00	ug/L	1	20.0	ND	120	73-127%	---	---	
Ethylbenzene	22.8	0.250	0.500	ug/L	1	20.0	ND	114	79-121%	---	---	
Hexachlorobutadiene	21.4	2.50	5.00	ug/L	1	20.0	ND	107	66-134%	---	---	
2-Hexanone	47.1	5.00	10.0	ug/L	1	40.0	ND	118	57-139%	---	---	
Isopropylbenzene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	72-131%	---	---	
4-Isopropyltoluene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	77-127%	---	---	
Methylene chloride	20.2	5.00	10.0	ug/L	1	20.0	ND	101	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	47.3	5.00	10.0	ug/L	1	40.0	ND	118	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	21.0	0.500	1.00	ug/L	1	20.0	ND	105	71-124%	---	---	
Naphthalene	19.9	1.00	2.00	ug/L	1	20.0	ND	100	61-128%	---	---	
n-Propylbenzene	22.6	0.250	0.500	ug/L	1	20.0	ND	113	76-126%	---	---	
Styrene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	78-123%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0610 - EPA 5030B</b>						<b>Water</b>						
<b>Matrix Spike (22G0610-MS1)</b>			Prepared: 07/20/22 17:27 Analyzed: 07/20/22 18:03									
<b>QC Source Sample: Non-SDG (A2G0552-01)</b>												
1,1,1,2-Tetrachloroethane	22.5	0.200	0.400	ug/L	1	20.0	ND	113	78-124%	---	---	
1,1,2,2-Tetrachloroethane	20.4	0.250	0.500	ug/L	1	20.0	ND	102	71-121%	---	---	
Tetrachloroethene (PCE)	20.6	0.200	0.400	ug/L	1	20.0	ND	103	74-129%	---	---	
Toluene	21.5	0.250	0.500	ug/L	1	20.0	ND	108	80-121%	---	---	
1,2,3-Trichlorobenzene	20.3	1.00	2.00	ug/L	1	20.0	ND	101	69-129%	---	---	
1,2,4-Trichlorobenzene	20.0	1.00	2.00	ug/L	1	20.0	ND	100	69-130%	---	---	
1,1,1-Trichloroethane	24.1	0.200	0.400	ug/L	1	20.0	ND	121	74-131%	---	---	
1,1,2-Trichloroethane	19.9	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
Trichloroethene (TCE)	20.5	0.200	0.400	ug/L	1	20.0	ND	102	79-123%	---	---	
Trichlorofluoromethane	27.9	1.00	2.00	ug/L	1	20.0	ND	140	65-141%	---	---	Q-54f
1,2,3-Trichloropropane	20.1	0.500	1.00	ug/L	1	20.0	ND	101	73-122%	---	---	
1,2,4-Trimethylbenzene	22.9	0.500	1.00	ug/L	1	20.0	ND	115	76-124%	---	---	
1,3,5-Trimethylbenzene	22.5	0.500	1.00	ug/L	1	20.0	ND	112	75-124%	---	---	
Vinyl chloride	25.2	0.200	0.400	ug/L	1	20.0	ND	126	58-137%	---	---	
m,p-Xylene	47.6	0.500	1.00	ug/L	1	40.0	ND	119	80-121%	---	---	
o-Xylene	22.3	0.250	0.500	ug/L	1	20.0	ND	111	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>"</i>						

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503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b>	Project: <b>Gasco -- Monthly (2022)</b>	
2749 Lockport Road	Project Number: <b>000029-02-20-2</b>	<b>Report ID:</b>
Niagara Falls, NY 14305	Project Manager: <b>Chip Byrd</b>	<b>A2G0560 - 08 16 22 0839</b>

**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0698-BLK1)</b>			Prepared: 07/21/22 17:40 Analyzed: 07/21/22 19:25									
<b>EPA 8260D</b>												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b>	Project: <b>Gasco -- Monthly (2022)</b>	
2749 Lockport Road	Project Number: <b>000029-02-20-2</b>	<b>Report ID:</b>
Niagara Falls, NY 14305	Project Manager: <b>Chip Byrd</b>	<b>A2G0560 - 08 16 22 0839</b>

**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0698-BLK1)</b>			Prepared: 07/21/22 17:40 Analyzed: 07/21/22 19:25									
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)      Recovery: 102 %      Limits: 80-120 %      Dilution: 1x

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0698-BLK1)</b>						Prepared: 07/21/22 17:40 Analyzed: 07/21/22 19:25						
<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>104 %</i>		<i>80-120 %</i>		<i>"</i>						
<b>LCS (22G0698-BS1)</b>						Prepared: 07/21/22 17:40 Analyzed: 07/21/22 18:31						
<b>EPA 8260D</b>												
Acetone	44.7	10.0	20.0	ug/L	1	40.0	---	112	80-120%	---	---	
Acrylonitrile	20.7	1.00	2.00	ug/L	1	20.0	---	104	80-120%	---	---	
Benzene	22.1	0.100	0.200	ug/L	1	20.0	---	110	80-120%	---	---	
Bromobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Bromochloromethane	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Bromodichloromethane	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Bromoform	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Bromomethane	23.5	5.00	5.00	ug/L	1	20.0	---	117	80-120%	---	---	
2-Butanone (MEK)	48.5	5.00	10.0	ug/L	1	40.0	---	<b>121</b>	<b>80-120%</b>	---	---	Q-56
n-Butylbenzene	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
sec-Butylbenzene	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
tert-Butylbenzene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon disulfide	19.7	5.00	10.0	ug/L	1	20.0	---	99	80-120%	---	---	
Carbon tetrachloride	23.5	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
Chlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Chloroethane	17.3	5.00	5.00	ug/L	1	20.0	---	87	80-120%	---	---	
Chloroform	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	18.6	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
2-Chlorotoluene	23.2	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
4-Chlorotoluene	23.8	0.500	1.00	ug/L	1	20.0	---	119	80-120%	---	---	
Dibromochloromethane	25.0	0.500	1.00	ug/L	1	20.0	---	<b>125</b>	<b>80-120%</b>	---	---	Q-56
1,2-Dibromo-3-chloropropane	24.7	2.50	5.00	ug/L	1	20.0	---	<b>124</b>	<b>80-120%</b>	---	---	Q-56
1,2-Dibromoethane (EDB)	25.4	0.250	0.500	ug/L	1	20.0	---	<b>127</b>	<b>80-120%</b>	---	---	Q-56
Dibromomethane	21.3	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,2-Dichlorobenzene	21.9	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
1,3-Dichlorobenzene	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
1,4-Dichlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Dichlorodifluoromethane	18.0	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,1-Dichloroethane	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
---	---	---

**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>LCS (22G0698-BS1)</b>			Prepared: 07/21/22 17:40 Analyzed: 07/21/22 18:31									
1,2-Dichloroethane (EDC)	19.5	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,1-Dichloroethene	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
cis-1,2-Dichloroethene	22.2	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
trans-1,2-Dichloroethene	20.6	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
1,2-Dichloropropane	20.1	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,3-Dichloropropane	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
2,2-Dichloropropane	27.9	0.500	1.00	ug/L	1	20.0	---	<b>140</b>	<b>80-120%</b>	---	---	Q-56
1,1-Dichloropropene	23.9	0.500	1.00	ug/L	1	20.0	---	120	80-120%	---	---	
cis-1,3-Dichloropropene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
trans-1,3-Dichloropropene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Ethylbenzene	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Hexachlorobutadiene	25.8	2.50	5.00	ug/L	1	20.0	---	<b>129</b>	<b>80-120%</b>	---	---	Q-56
2-Hexanone	44.8	5.00	10.0	ug/L	1	40.0	---	112	80-120%	---	---	
Isopropylbenzene	21.5	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
4-Isopropyltoluene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Methylene chloride	21.2	5.00	10.0	ug/L	1	20.0	---	106	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	46.1	5.00	10.0	ug/L	1	40.0	---	115	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	24.3	0.500	1.00	ug/L	1	20.0	---	<b>122</b>	<b>80-120%</b>	---	---	Q-56
Naphthalene	19.4	2.50	5.00	ug/L	1	20.0	---	97	80-120%	---	---	
n-Propylbenzene	22.9	0.250	0.500	ug/L	1	20.0	---	114	80-120%	---	---	
Styrene	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,1,1,2-Tetrachloroethane	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Tetrachloroethene (PCE)	21.5	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
Toluene	19.9	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,2,3-Trichlorobenzene	22.7	1.00	2.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,2,4-Trichlorobenzene	22.6	1.00	2.00	ug/L	1	20.0	---	113	80-120%	---	---	
1,1,1-Trichloroethane	21.6	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
1,1,2-Trichloroethane	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Trichloroethene (TCE)	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
Trichlorofluoromethane	19.5	1.00	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2,3-Trichloropropane	21.3	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,4-Trimethylbenzene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
1,3,5-Trimethylbenzene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>LCS (22G0698-BS1)</b>			Prepared: 07/21/22 17:40			Analyzed: 07/21/22 18:31						
Vinyl chloride	19.2	0.200	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
m,p-Xylene	43.3	0.500	1.00	ug/L	1	40.0	---	108	80-120%	---	---	
o-Xylene	21.3	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						

<b>Duplicate (22G0698-DUP1)</b>		Prepared: 07/21/22 17:40		Analyzed: 07/21/22 21:13								
<b>QC Source Sample: Non-SDG (A2G0494-02)</b>												
Acetone	ND	20.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	<b>1.52</b>	0.500	1.00	ug/L	1	---	1.39	---	---	9	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>Duplicate (22G0698-DUP1)</b>			Prepared: 07/21/22 17:40 Analyzed: 07/21/22 21:13									
<b>QC Source Sample: Non-SDG (A2G0494-02)</b>												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	<b>0.680</b>	0.500	1.00	ug/L	1	---	0.640	---	---	6	30%	J
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	<b>0.790</b>	0.250	0.500	ug/L	1	---	0.740	---	---	7	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
---	---	---

**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>Duplicate (22G0698-DUP1)</b>			Prepared: 07/21/22 17:40 Analyzed: 07/21/22 21:13									
<b>QC Source Sample: Non-SDG (A2G0494-02)</b>												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

<b>Matrix Spike (22G0698-MS1)</b>						Prepared: 07/21/22 17:40 Analyzed: 07/21/22 23:28						
<b>QC Source Sample: Non-SDG (A2G0602-15)</b>												
<b>EPA 8260D</b>												
Acetone	42.7	10.0	20.0	ug/L	1	40.0	ND	107	39-160%	---	---	
Acrylonitrile	21.1	1.00	2.00	ug/L	1	20.0	ND	106	63-135%	---	---	
Benzene	23.3	0.100	0.200	ug/L	1	20.0	ND	116	79-120%	---	---	
Bromobenzene	20.4	0.250	0.500	ug/L	1	20.0	ND	102	80-120%	---	---	
Bromochloromethane	20.9	0.500	1.00	ug/L	1	20.0	ND	105	78-123%	---	---	
Bromodichloromethane	21.9	0.500	1.00	ug/L	1	20.0	ND	110	79-125%	---	---	
Bromoform	21.0	0.500	1.00	ug/L	1	20.0	ND	105	66-130%	---	---	
Bromomethane	20.3	5.00	5.00	ug/L	1	20.0	ND	102	53-141%	---	---	
2-Butanone (MEK)	46.4	5.00	10.0	ug/L	1	40.0	ND	116	56-143%	---	---	Q-54
n-Butylbenzene	23.5	0.500	1.00	ug/L	1	20.0	ND	117	75-128%	---	---	
sec-Butylbenzene	23.4	0.500	1.00	ug/L	1	20.0	ND	117	77-126%	---	---	
tert-Butylbenzene	23.1	0.500	1.00	ug/L	1	20.0	ND	116	78-124%	---	---	
Carbon disulfide	22.0	5.00	10.0	ug/L	1	20.0	ND	110	64-133%	---	---	
Carbon tetrachloride	26.2	0.500	1.00	ug/L	1	20.0	ND	131	72-136%	---	---	
Chlorobenzene	21.3	0.250	0.500	ug/L	1	20.0	ND	107	80-120%	---	---	
Chloroethane	19.6	5.00	5.00	ug/L	1	20.0	ND	98	60-138%	---	---	
Chloroform	21.4	0.500	1.00	ug/L	1	20.0	ND	107	79-124%	---	---	
Chloromethane	22.6	2.50	5.00	ug/L	1	20.0	ND	113	50-139%	---	---	

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Darwin Thomas, Business Development Director



**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
---	---	---

**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>Matrix Spike (22G0698-MS1)</b>			Prepared: 07/21/22 17:40 Analyzed: 07/21/22 23:28									
<b>QC Source Sample: Non-SDG (A2G0602-15)</b>												
2-Chlorotoluene	23.8	0.500	1.00	ug/L	1	20.0	ND	119	79-122%	---	---	
4-Chlorotoluene	24.1	0.500	1.00	ug/L	1	20.0	ND	120	78-122%	---	---	
Dibromochloromethane	25.9	0.500	1.00	ug/L	1	20.0	ND	<b>129</b>	<b>74-126%</b>	---	---	Q-54e
1,2-Dibromo-3-chloropropane	26.0	2.50	5.00	ug/L	1	20.0	ND	<b>130</b>	<b>62-128%</b>	---	---	Q-54d
1,2-Dibromoethane (EDB)	25.1	0.250	0.500	ug/L	1	20.0	ND	<b>126</b>	<b>77-121%</b>	---	---	Q-54g
Dibromomethane	21.8	0.500	1.00	ug/L	1	20.0	ND	109	79-123%	---	---	
1,2-Dichlorobenzene	22.4	0.250	0.500	ug/L	1	20.0	ND	112	80-120%	---	---	
1,3-Dichlorobenzene	22.4	0.250	0.500	ug/L	1	20.0	ND	112	80-120%	---	---	
1,4-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	ND	100	79-120%	---	---	
Dichlorodifluoromethane	20.6	0.500	1.00	ug/L	1	20.0	ND	103	32-152%	---	---	
1,1-Dichloroethane	21.6	0.200	0.400	ug/L	1	20.0	ND	108	77-125%	---	---	
1,2-Dichloroethane (EDC)	20.3	0.200	0.400	ug/L	1	20.0	ND	101	73-128%	---	---	
1,1-Dichloroethene	22.8	0.200	0.400	ug/L	1	20.0	ND	114	71-131%	---	---	
cis-1,2-Dichloroethene	23.1	0.200	0.400	ug/L	1	20.0	ND	115	78-123%	---	---	
trans-1,2-Dichloroethene	22.0	0.200	0.400	ug/L	1	20.0	ND	110	75-124%	---	---	
1,2-Dichloropropane	20.7	0.250	0.500	ug/L	1	20.0	ND	104	78-122%	---	---	
1,3-Dichloropropane	22.5	0.500	1.00	ug/L	1	20.0	ND	113	80-120%	---	---	
2,2-Dichloropropane	26.7	0.500	1.00	ug/L	1	20.0	ND	133	60-139%	---	---	Q-54b
1,1-Dichloropropene	26.3	0.500	1.00	ug/L	1	20.0	ND	<b>132</b>	<b>79-125%</b>	---	---	Q-01
cis-1,3-Dichloropropene	19.2	0.500	1.00	ug/L	1	20.0	ND	96	75-124%	---	---	
trans-1,3-Dichloropropene	22.1	0.500	1.00	ug/L	1	20.0	ND	110	73-127%	---	---	
Ethylbenzene	23.5	0.250	0.500	ug/L	1	20.0	ND	117	79-121%	---	---	
Hexachlorobutadiene	27.1	2.50	5.00	ug/L	1	20.0	ND	<b>136</b>	<b>66-134%</b>	---	---	Q-54h
2-Hexanone	44.8	5.00	10.0	ug/L	1	40.0	ND	112	57-139%	---	---	
Isopropylbenzene	23.1	0.500	1.00	ug/L	1	20.0	ND	115	72-131%	---	---	
4-Isopropyltoluene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	77-127%	---	---	
Methylene chloride	20.8	5.00	10.0	ug/L	1	20.0	ND	104	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	46.7	5.00	10.0	ug/L	1	40.0	ND	117	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	24.3	0.500	1.00	ug/L	1	20.0	ND	122	71-124%	---	---	Q-54a
Naphthalene	20.4	2.50	5.00	ug/L	1	20.0	ND	102	61-128%	---	---	
n-Propylbenzene	23.9	0.250	0.500	ug/L	1	20.0	ND	120	76-126%	---	---	
Styrene	20.1	0.500	1.00	ug/L	1	20.0	ND	100	78-123%	---	---	
1,1,1,2-Tetrachloroethane	22.8	0.200	0.400	ug/L	1	20.0	ND	114	78-124%	---	---	

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ANALYTICAL REPORT

**Apex Laboratories, LLC**

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503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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
<b>Batch 22G0698 - EPA 5030B</b>						<b>Water</b>						
<b>Matrix Spike (22G0698-MS1)</b>			Prepared: 07/21/22 17:40 Analyzed: 07/21/22 23:28									
<b>QC Source Sample: Non-SDG (A2G0602-15)</b>												
1,1,2,2-Tetrachloroethane	20.2	0.250	0.500	ug/L	1	20.0	ND	101	71-121%	---	---	
Tetrachloroethene (PCE)	23.8	0.200	0.400	ug/L	1	20.0	ND	119	74-129%	---	---	
Toluene	21.2	0.250	0.500	ug/L	1	20.0	ND	106	80-121%	---	---	
1,2,3-Trichlorobenzene	23.5	1.00	2.00	ug/L	1	20.0	ND	118	69-129%	---	---	
1,2,4-Trichlorobenzene	23.3	1.00	2.00	ug/L	1	20.0	ND	116	69-130%	---	---	
1,1,1-Trichloroethane	23.7	0.200	0.400	ug/L	1	20.0	ND	119	74-131%	---	---	
1,1,2-Trichloroethane	21.5	0.250	0.500	ug/L	1	20.0	ND	108	80-120%	---	---	
Trichloroethene (TCE)	21.8	0.200	0.400	ug/L	1	20.0	ND	109	79-123%	---	---	
Trichlorofluoromethane	22.7	1.00	2.00	ug/L	1	20.0	ND	113	65-141%	---	---	
1,2,3-Trichloropropane	21.5	0.500	1.00	ug/L	1	20.0	ND	108	73-122%	---	---	
1,2,4-Trimethylbenzene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	76-124%	---	---	
1,3,5-Trimethylbenzene	22.7	0.500	1.00	ug/L	1	20.0	ND	114	75-124%	---	---	
Vinyl chloride	21.6	0.200	0.400	ug/L	1	20.0	ND	108	58-137%	---	---	
m,p-Xylene	45.7	0.500	1.00	ug/L	1	40.0	ND	114	80-121%	---	---	
o-Xylene	22.2	0.250	0.500	ug/L	1	20.0	ND	111	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97%</i>		<i>Limits: 80-120%</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98%</i>		<i>80-120%</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96%</i>		<i>80-120%</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0851 - EPA 3510C (Acid Extraction)</b>						<b>Water</b>						
<b>Blank (22G0851-BLK1)</b>						Prepared: 07/26/22 11:42 Analyzed: 07/26/22 18:15						
<u>EPA 8270E SIM</u>												
Acenaphthene	<b>0.0183</b>	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B
Acenaphthylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluorene	<b>0.0116</b>	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B-02, J
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	<b>0.0268</b>	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	B-02, J
Naphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Phenanthrene	<b>0.0168</b>	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B-02, J
Pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	<b>0.0101</b>	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B-02, J
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>83 %</i>		<i>50-134 %</i>		<i>"</i>						

<b>LCS (22G0851-BS1)</b>						Prepared: 07/26/22 11:42 Analyzed: 07/26/22 18:40						
<u>EPA 8270E SIM</u>												
Acenaphthene	2.91	0.0100	0.0200	ug/L	1	4.00	---	73	47-122%	---	---	B
Acenaphthylene	2.97	0.0100	0.0200	ug/L	1	4.00	---	74	41-130%	---	---	
Anthracene	3.24	0.0100	0.0200	ug/L	1	4.00	---	81	57-123%	---	---	
Benz(a)anthracene	3.35	0.0100	0.0200	ug/L	1	4.00	---	84	58-125%	---	---	
Benzo(a)pyrene	3.67	0.0100	0.0200	ug/L	1	4.00	---	92	54-128%	---	---	
Benzo(b)fluoranthene	3.64	0.0100	0.0200	ug/L	1	4.00	---	91	53-131%	---	---	
Benzo(k)fluoranthene	3.54	0.0100	0.0200	ug/L	1	4.00	---	89	57-129%	---	---	
Benzo(g,h,i)perylene	3.83	0.0100	0.0200	ug/L	1	4.00	---	96	50-134%	---	---	
Chrysene	3.55	0.0100	0.0200	ug/L	1	4.00	---	89	59-123%	---	---	

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0851 - EPA 3510C (Acid Extraction)</b>						<b>Water</b>						
<b>LCS (22G0851-BS1)</b>			Prepared: 07/26/22 11:42 Analyzed: 07/26/22 18:40									
Dibenz(a,h)anthracene	4.05	0.0100	0.0200	ug/L	1	4.00	---	101	51-134%	---	---	
Fluoranthene	3.63	0.0100	0.0200	ug/L	1	4.00	---	91	57-128%	---	---	
Fluorene	3.24	0.0100	0.0200	ug/L	1	4.00	---	81	52-124%	---	---	B-02
Indeno(1,2,3-cd)pyrene	4.05	0.0100	0.0200	ug/L	1	4.00	---	101	52-134%	---	---	
1-Methylnaphthalene	2.64	0.0200	0.0400	ug/L	1	4.00	---	66	41-120%	---	---	
2-Methylnaphthalene	2.53	0.0200	0.0400	ug/L	1	4.00	---	63	40-121%	---	---	B-02
Naphthalene	2.47	0.0200	0.0400	ug/L	1	4.00	---	62	40-121%	---	---	
Phenanthrene	3.14	0.0100	0.0200	ug/L	1	4.00	---	78	59-120%	---	---	B-02
Pyrene	3.67	0.0100	0.0200	ug/L	1	4.00	---	92	57-126%	---	---	
Dibenzofuran	3.01	0.0100	0.0200	ug/L	1	4.00	---	75	53-120%	---	---	B-02
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>73 %</i>		<i>50-134 %</i>		<i>"</i>						

<b>LCS Dup (22G0851-BS1)</b>						Prepared: 07/26/22 11:42 Analyzed: 07/26/22 19:06						<b>Q-19</b>
<b>EPA 8270E SIM</b>												
Acenaphthene	3.15	0.0100	0.0200	ug/L	1	4.00	---	79	47-122%	8	30%	B
Acenaphthylene	3.12	0.0100	0.0200	ug/L	1	4.00	---	78	41-130%	5	30%	
Anthracene	3.25	0.0100	0.0200	ug/L	1	4.00	---	81	57-123%	0.4	30%	
Benz(a)anthracene	3.36	0.0100	0.0200	ug/L	1	4.00	---	84	58-125%	0.3	30%	
Benzo(a)pyrene	3.70	0.0100	0.0200	ug/L	1	4.00	---	93	54-128%	0.8	30%	
Benzo(b)fluoranthene	3.74	0.0100	0.0200	ug/L	1	4.00	---	93	53-131%	3	30%	
Benzo(k)fluoranthene	3.56	0.0100	0.0200	ug/L	1	4.00	---	89	57-129%	0.6	30%	
Benzo(g,h,i)perylene	3.87	0.0100	0.0200	ug/L	1	4.00	---	97	50-134%	1	30%	
Chrysene	3.72	0.0100	0.0200	ug/L	1	4.00	---	93	59-123%	5	30%	
Dibenz(a,h)anthracene	4.12	0.0100	0.0200	ug/L	1	4.00	---	103	51-134%	2	30%	
Fluoranthene	3.67	0.0100	0.0200	ug/L	1	4.00	---	92	57-128%	1	30%	
Fluorene	3.37	0.0100	0.0200	ug/L	1	4.00	---	84	52-124%	4	30%	B-02
Indeno(1,2,3-cd)pyrene	4.12	0.0100	0.0200	ug/L	1	4.00	---	103	52-134%	2	30%	
1-Methylnaphthalene	2.87	0.0200	0.0400	ug/L	1	4.00	---	72	41-120%	8	30%	
2-Methylnaphthalene	2.77	0.0200	0.0400	ug/L	1	4.00	---	69	40-121%	9	30%	B-02
Naphthalene	2.67	0.0200	0.0400	ug/L	1	4.00	---	67	40-121%	8	30%	
Phenanthrene	3.26	0.0100	0.0200	ug/L	1	4.00	---	81	59-120%	4	30%	B-02
Pyrene	3.66	0.0100	0.0200	ug/L	1	4.00	---	92	57-126%	0.2	30%	
Dibenzofuran	3.23	0.0100	0.0200	ug/L	1	4.00	---	81	53-120%	7	30%	B-02

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<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0851 - EPA 3510C (Acid Extraction)</b>						<b>Water</b>						
<b>LCS Dup (22G0851-BSD1)</b>						Prepared: 07/26/22 11:42 Analyzed: 07/26/22 19:06						<b>Q-19</b>
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>76 %</i>		<i>50-134 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAf) by EPA 1631E**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0787 - 1631E Mercury (H2O)</b>						<b>Water</b>						
<b>Blank (22G0787-BLK1)</b>			Prepared: 07/25/22 10:30 Analyzed: 07/26/22 17:11									
<u>EPA 1631E-LL</u>												
Mercury	0.000823	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	B-02, J
<b>Blank (22G0787-BLK2)</b>			Prepared: 07/25/22 10:30 Analyzed: 07/26/22 17:16									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
<b>Blank (22G0787-BLK3)</b>			Prepared: 07/25/22 10:30 Analyzed: 07/26/22 17:21									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
<b>LCS (22G0787-BS1)</b>			Prepared: 07/25/22 10:30 Analyzed: 07/26/22 17:26									
<u>EPA 1631E-LL</u>												
Mercury	0.00767	0.000500	0.00100	ug/L	1	0.00800	---	96	80-120%	---	---	
<b>Matrix Spike (22G0787-MS1)</b>			Prepared: 07/25/22 10:30 Analyzed: 07/26/22 17:36									
<u>QC Source Sample: SI-072022-92 (A2G0560-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00297	0.000500	0.00100	ug/L	1	0.00800	ND	37	75-125%	---	---	Q-02
<b>Matrix Spike (22G0787-MS2)</b>			Prepared: 07/25/22 10:30 Analyzed: 07/26/22 18:46									
<u>QC Source Sample: Non-SDG (A2G0675-09)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00770	0.000500	0.00100	ug/L	1	0.00800	ND	96	75-125%	---	---	
<b>Matrix Spike Dup (22G0787-MSD1)</b>			Prepared: 07/25/22 10:30 Analyzed: 07/26/22 17:41									
<u>QC Source Sample: SI-072022-92 (A2G0560-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00301	0.000500	0.00100	ug/L	1	0.00800	ND	38	75-125%	1	24%	Q-02
<b>Matrix Spike Dup (22G0787-MSD2)</b>			Prepared: 07/25/22 10:30 Analyzed: 07/26/22 18:51									
<u>QC Source Sample: Non-SDG (A2G0675-09)</u>												

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAF) by EPA 1631E**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0787 - 1631E Mercury (H2O)</b>						<b>Water</b>						
<b>Matrix Spike Dup (22G0787-MSD2)</b>						Prepared: 07/25/22 10:30 Analyzed: 07/26/22 18:51						
<b>QC Source Sample: Non-SDG (A2G0675-09)</b>												
Mercury	0.00743	0.000500	0.00100	ug/L	1	0.00800	ND	93	75-125%	3	24%	

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Total Metals by EPA 6020B (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0737 - EPA 3015A</b>						<b>Water</b>						
<b>Blank (22G0737-BLK1)</b>			Prepared: 07/22/22 10:43 Analyzed: 07/22/22 18:21									
<u>EPA 6020B</u>												
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	

<b>LCS (22G0737-BS1)</b>						Prepared: 07/22/22 10:43 Analyzed: 07/22/22 18:26						
<u>EPA 6020B</u>												
Arsenic	52.5	0.500	1.00	ug/L	1	55.6	---	94	80-120%	---	---	
Barium	54.6	1.00	2.00	ug/L	1	55.6	---	98	80-120%	---	---	
Cadmium	53.0	0.100	0.200	ug/L	1	55.6	---	95	80-120%	---	---	
Chromium	54.3	1.00	2.00	ug/L	1	55.6	---	98	80-120%	---	---	
Copper	55.9	1.00	2.00	ug/L	1	55.6	---	101	80-120%	---	---	
Iron	2780	25.0	50.0	ug/L	1	2780	---	100	80-120%	---	---	
Lead	53.6	0.110	0.200	ug/L	1	55.6	---	96	80-120%	---	---	
Mercury	1.07	0.0400	0.0800	ug/L	1	1.11	---	96	80-120%	---	---	
Selenium	25.8	0.500	1.00	ug/L	1	27.8	---	93	80-120%	---	---	
Silver	26.9	0.100	0.200	ug/L	1	27.8	---	97	80-120%	---	---	

<b>Duplicate (22G0737-DUP1)</b>						Prepared: 07/22/22 10:43 Analyzed: 07/22/22 19:58						
<u>QC Source Sample: GACF1-072022-92 (A2G0560-12)</u>												
<u>EPA 6020B</u>												
Arsenic	<b>1.73</b>	0.500	1.00	ug/L	1	---	1.79	---	---	4	20%	
Barium	<b>10.8</b>	1.00	2.00	ug/L	1	---	10.7	---	---	1	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Iron	<b>186</b>	25.0	50.0	ug/L	1	---	183	---	---	2	20%	

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---	---	---

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Total Metals by EPA 6020B (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0737 - EPA 3015A</b>						<b>Water</b>						
<b>Duplicate (22G0737-DUP1)</b>			Prepared: 07/22/22 10:43 Analyzed: 07/22/22 19:58									
<b>QC Source Sample: GACF1-072022-92 (A2G0560-12)</b>												
Lead	ND	0.110	0.200	ug/L	1	---	ND	---	---	---	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	

<b>Matrix Spike (22G0737-MS1)</b>			Prepared: 07/22/22 10:43 Analyzed: 07/22/22 20:02									
<b>QC Source Sample: GACF1-072022-92 (A2G0560-12)</b>												
<b>EPA 6020B</b>												
Arsenic	55.4	0.500	1.00	ug/L	1	55.6	1.79	97	75-125%	---	---	
Barium	67.3	1.00	2.00	ug/L	1	55.6	10.7	102	75-125%	---	---	
Cadmium	54.8	0.100	0.200	ug/L	1	55.6	ND	99	75-125%	---	---	
Chromium	54.9	1.00	2.00	ug/L	1	55.6	ND	99	75-125%	---	---	
Copper	53.2	1.00	2.00	ug/L	1	55.6	ND	96	75-125%	---	---	
Iron	2970	25.0	50.0	ug/L	1	2780	183	100	75-125%	---	---	
Lead	49.3	0.110	0.200	ug/L	1	55.6	ND	89	75-125%	---	---	
Mercury	1.02	0.0400	0.0800	ug/L	1	1.11	ND	92	75-125%	---	---	
Selenium	26.4	0.500	1.00	ug/L	1	27.8	ND	95	75-125%	---	---	
Silver	26.3	0.100	0.200	ug/L	1	27.8	ND	95	75-125%	---	---	

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**HEM (Oil and Grease) and SGT-HEM by EPA 1664B**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0828 - EPA 1664B</b>						<b>Water</b>						
<b>Blank (22G0828-BLK1)</b>			Prepared: 07/26/22 08:44 Analyzed: 07/26/22 15:07									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	ND	3330	3330	ug/L	1	---	---	---	---	---	---	
<b>LCS (22G0828-BS1)</b>			Prepared: 07/26/22 08:44 Analyzed: 07/26/22 15:07									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	35.4			mg/L	1	40.0	---	88	78-114%	---	---	
<b>Matrix Spike (22G0828-MS1)</b>			Prepared: 07/26/22 08:44 Analyzed: 07/26/22 15:07									
<u>QC Source Sample: Non-SDG (A2G0427-01)</u>												
<u>EPA 1664B</u>												
HEM (Oil and Grease)	31.3			mg/L	1	37.7	ND	77	78-114%	---	---	Q-01

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0711 - ASTM D7511-12 (W)</b>						<b>Water</b>						
<b>Blank (22G0711-BLK1)</b>			Prepared: 07/22/22 08:07 Analyzed: 07/22/22 11:04									
<u>D7511-12</u>												
Total Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
<b>LCS (22G0711-BS1)</b>			Prepared: 07/22/22 08:07 Analyzed: 07/22/22 11:06									
<u>D7511-12</u>												
Total Cyanide	26.5	2.50	5.00	ug/L	1	25.0	---	106	84-116%	---	---	
<b>Matrix Spike (22G0711-MS1)</b>			Prepared: 07/22/22 08:07 Analyzed: 07/22/22 11:16									
<u>QC Source Sample: SI-072022-92 (A2G0560-01)</u>												
<u>D7511-12</u>												
Total Cyanide	343	12.5	25.0	ug/L	5	125	193	120	64-136%	---	---	E
<b>Matrix Spike (22G0711-MS2)</b>			Prepared: 07/22/22 08:07 Analyzed: 07/22/22 11:45									
<u>QC Source Sample: TWE-072022-92 (A2G0560-08)</u>												
<u>D7511-12</u>												
Total Cyanide	249	12.5	25.0	ug/L	5	125	132	94	64-136%	---	---	
<b>Matrix Spike Dup (22G0711-MSD1)</b>			Prepared: 07/22/22 08:07 Analyzed: 07/22/22 11:18									
<u>QC Source Sample: SI-072022-92 (A2G0560-01)</u>												
<u>D7511-12</u>												
Total Cyanide	352	12.5	25.0	ug/L	5	125	193	126	64-136%	2	47%	E
<b>Matrix Spike Dup (22G0711-MSD2)</b>			Prepared: 07/22/22 08:07 Analyzed: 07/22/22 11:47									
<u>QC Source Sample: TWE-072022-92 (A2G0560-08)</u>												
<u>D7511-12</u>												
Total Cyanide	264	12.5	25.0	ug/L	5	125	132	106	64-136%	6	47%	E

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Available Cyanide by FIA, Ligand Exchange and Amperometric Detection**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0681 - Method Prep: Aq</b>						<b>Water</b>						
<b>Blank (22G0681-BLK1)</b>			Prepared: 07/21/22 14:02 Analyzed: 07/21/22 15:31									
<u>D6888-09</u>												
Available Cyanide	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
<b>LCS (22G0681-BS1)</b>			Prepared: 07/21/22 14:02 Analyzed: 07/21/22 15:33									
<u>D6888-09</u>												
Available Cyanide	25.4	1.00	2.00	ug/L	1	25.0	---	102	90-117%	---	---	
<b>Matrix Spike (22G0681-MS1)</b>			Prepared: 07/21/22 14:02 Analyzed: 07/21/22 15:38									
<u>QC Source Sample: GACF1-072022-92 (A2G0560-12)</u>												
<u>D6888-09</u>												
Available Cyanide	34.9	1.01	2.01	ug/L	1	25.1	11.9	92	82-130%	---	---	
<b>Matrix Spike Dup (22G0681-MSD1)</b>			Prepared: 07/21/22 14:02 Analyzed: 07/21/22 15:39									
<u>QC Source Sample: GACF1-072022-92 (A2G0560-12)</u>												
<u>D6888-09</u>												
Available Cyanide	36.8	1.01	2.01	ug/L	1	25.1	11.9	99	82-130%	5	11%	

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0662 - Method Prep: Aq</b>						<b>Water</b>						
<b>Blank (22G0662-BLK1)</b>			Prepared: 07/21/22 10:36 Analyzed: 07/21/22 13:19									
<u>D7237-10</u>												
Free Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
<b>LCS (22G0662-BS1)</b>			Prepared: 07/21/22 10:36 Analyzed: 07/21/22 13:21									
<u>D7237-10</u>												
Free Cyanide	24.5	2.50	5.00	ug/L	1	25.0	---	98	90-118%	---	---	
<b>Matrix Spike (22G0662-MS1)</b>			Prepared: 07/21/22 10:36 Analyzed: 07/21/22 13:24									
<u>QC Source Sample: GACF1-072022-92 (A2G0560-12)</u>												
<u>D7237-10</u>												
Free Cyanide	34.1	2.51	5.03	ug/L	1	25.1	9.98	96	79-121%	---	---	
<b>Matrix Spike Dup (22G0662-MSD1)</b>			Prepared: 07/21/22 10:36 Analyzed: 07/21/22 13:25									
<u>QC Source Sample: GACF1-072022-92 (A2G0560-12)</u>												
<u>D7237-10</u>												
Free Cyanide	36.4	2.51	5.03	ug/L	1	25.1	9.98	105	79-121%	6	13%	

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Solid and Moisture Determinations**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0716 - Total Suspended Solids</b>						<b>Water</b>						
<b>Blank (22G0716-BLK1)</b>			Prepared: 07/22/22 11:40 Analyzed: 07/22/22 11:40									
<u>SM 2540 D</u>												
Total Suspended Solids	ND	5000	5000	ug/L	1	---	---	---	---	---	---	
<b>Duplicate (22G0716-DUP1)</b>			Prepared: 07/22/22 11:40 Analyzed: 07/22/22 11:40									
<u>QC Source Sample: Non-SDG (A2G0545-01)</u>												
Total Suspended Solids	<b>230000</b>	125000	125000	ug/L	1	---	235000	---	---	2.15	10%	
<b>Duplicate (22G0716-DUP2)</b>			Prepared: 07/22/22 11:40 Analyzed: 07/22/22 11:40									
<u>QC Source Sample: Non-SDG (A2G0605-01)</u>												
Total Suspended Solids	<b>198000</b>	50000	50000	ug/L	1	---	202000	---	---	2.00	10%	
<b>Reference (22G0716-SRM1)</b>			Prepared: 07/22/22 11:40 Analyzed: 07/22/22 11:40									
<u>SM 2540 D</u>												
Total Suspended Solids	869			mg/L	1	836	104	85-115%	---	---		

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Darwin Thomas, Business Development Director



**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**SAMPLE PREPARATION INFORMATION**

**Volatile Organic Compounds by EPA 8260D**

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0610</u>							
A2G0560-01	Water	EPA 8260D	07/20/22 00:45	07/20/22 17:27	5mL/5mL	5mL/5mL	1.00
A2G0560-04	Water	EPA 8260D	07/20/22 01:30	07/20/22 17:27	5mL/5mL	5mL/5mL	1.00
A2G0560-05	Water	EPA 8260D	07/20/22 01:45	07/20/22 17:27	5mL/5mL	5mL/5mL	1.00
A2G0560-08	Water	EPA 8260D	07/20/22 03:30	07/20/22 17:27	5mL/5mL	5mL/5mL	1.00
A2G0560-10	Water	EPA 8260D	07/20/22 01:40	07/20/22 17:27	5mL/5mL	5mL/5mL	1.00
A2G0560-11	Water	EPA 8260D	07/20/22 00:10	07/20/22 17:27	5mL/5mL	5mL/5mL	1.00
A2G0560-12	Water	EPA 8260D	07/20/22 00:30	07/20/22 17:27	5mL/5mL	5mL/5mL	1.00
<u>Batch: 22G0698</u>							
A2G0560-02RE1	Water	EPA 8260D	07/20/22 01:00	07/21/22 17:40	5mL/5mL	5mL/5mL	1.00
A2G0560-03RE1	Water	EPA 8260D	07/20/22 00:30	07/21/22 17:40	5mL/5mL	5mL/5mL	1.00
A2G0560-04RE1	Water	EPA 8260D	07/20/22 01:30	07/21/22 17:40	5mL/5mL	5mL/5mL	1.00
A2G0560-06RE1	Water	EPA 8260D	07/20/22 02:00	07/21/22 17:40	5mL/5mL	5mL/5mL	1.00
A2G0560-07RE1	Water	EPA 8260D	07/20/22 03:15	07/21/22 17:40	5mL/5mL	5mL/5mL	1.00
A2G0560-09RE1	Water	EPA 8260D	07/20/22 01:10	07/21/22 17:40	5mL/5mL	5mL/5mL	1.00

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

Prep: EPA 3510C (Acid Extraction)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0851</u>							
A2G0560-01	Water	EPA 8270E SIM	07/20/22 00:45	07/26/22 11:42	1020mL/2mL	1000mL/2mL	0.98
A2G0560-02	Water	EPA 8270E SIM	07/20/22 01:00	07/26/22 11:42	1010mL/2mL	1000mL/2mL	0.99
A2G0560-03	Water	EPA 8270E SIM	07/20/22 00:30	07/26/22 11:42	1050mL/2mL	1000mL/2mL	0.95
A2G0560-04	Water	EPA 8270E SIM	07/20/22 01:30	07/26/22 11:42	1010mL/2mL	1000mL/2mL	0.99
A2G0560-05	Water	EPA 8270E SIM	07/20/22 01:45	07/26/22 11:42	990mL/2mL	1000mL/2mL	1.01
A2G0560-06	Water	EPA 8270E SIM	07/20/22 02:00	07/26/22 11:42	1050mL/2mL	1000mL/2mL	0.95
A2G0560-07	Water	EPA 8270E SIM	07/20/22 03:15	07/26/22 11:42	930mL/2mL	1000mL/2mL	1.08
A2G0560-08	Water	EPA 8270E SIM	07/20/22 03:30	07/26/22 11:42	970mL/2mL	1000mL/2mL	1.03
A2G0560-09	Water	EPA 8270E SIM	07/20/22 01:10	07/26/22 11:42	960mL/2mL	1000mL/2mL	1.04
A2G0560-10	Water	EPA 8270E SIM	07/20/22 01:40	07/26/22 11:42	1060mL/2mL	1000mL/2mL	0.94
A2G0560-11	Water	EPA 8270E SIM	07/20/22 00:10	07/26/22 11:42	1060mL/2mL	1000mL/2mL	0.94
A2G0560-12	Water	EPA 8270E SIM	07/20/22 00:30	07/26/22 11:42	1060mL/2mL	1000mL/2mL	0.94

**Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAF) by EPA 1631E**

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Darwin Thomas, Business Development Director



**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**SAMPLE PREPARATION INFORMATION**

**Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAf) by EPA 1631E**

<u>Prep: 1631E Mercury (H2O)</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0787</u>							
A2G0560-01	Water	EPA 1631E-LL	07/20/22 00:45	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00
A2G0560-03	Water	EPA 1631E-LL	07/20/22 00:30	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00
A2G0560-04	Water	EPA 1631E-LL	07/20/22 01:30	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00
A2G0560-06	Water	EPA 1631E-LL	07/20/22 02:00	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00
A2G0560-07	Water	EPA 1631E-LL	07/20/22 03:15	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00
A2G0560-09	Water	EPA 1631E-LL	07/20/22 01:10	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00
A2G0560-10	Water	EPA 1631E-LL	07/20/22 01:40	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00
A2G0560-11	Water	EPA 1631E-LL	07/20/22 00:10	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00
A2G0560-12	Water	EPA 1631E-LL	07/20/22 00:30	07/25/22 10:30	20mL/20mL	20mL/20mL	1.00

**Total Metals by EPA 6020B (ICPMS)**

<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0737</u>							
A2G0560-01	Water	EPA 6020B	07/20/22 00:45	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-01RE1	Water	EPA 6020B	07/20/22 00:45	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-02	Water	EPA 6020B	07/20/22 01:00	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-03	Water	EPA 6020B	07/20/22 00:30	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-03RE1	Water	EPA 6020B	07/20/22 00:30	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-04	Water	EPA 6020B	07/20/22 01:30	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-05	Water	EPA 6020B	07/20/22 01:45	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-06	Water	EPA 6020B	07/20/22 02:00	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-06RE1	Water	EPA 6020B	07/20/22 02:00	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-07	Water	EPA 6020B	07/20/22 03:15	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-07RE1	Water	EPA 6020B	07/20/22 03:15	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-08	Water	EPA 6020B	07/20/22 03:30	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-09	Water	EPA 6020B	07/20/22 01:10	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-10	Water	EPA 6020B	07/20/22 01:40	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-11	Water	EPA 6020B	07/20/22 00:10	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00
A2G0560-12	Water	EPA 6020B	07/20/22 00:30	07/22/22 10:43	45mL/50mL	45mL/50mL	1.00

**HEM (Oil and Grease) and SGT-HEM by EPA 1664B**

<u>Prep: EPA 1664B</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**SAMPLE PREPARATION INFORMATION**

HEM (Oil and Grease) and SGT-HEM by EPA 1664B

Prep: EPA 1664B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0828</u>							
A2G0560-01	Water	EPA 1664B	07/20/22 00:45	07/26/22 08:44			NA
A2G0560-02	Water	EPA 1664B	07/20/22 01:00	07/26/22 08:44			NA
A2G0560-03	Water	EPA 1664B	07/20/22 00:30	07/26/22 08:44			NA
A2G0560-04	Water	EPA 1664B	07/20/22 01:30	07/26/22 08:44			NA
A2G0560-05	Water	EPA 1664B	07/20/22 01:45	07/26/22 08:44			NA
A2G0560-06	Water	EPA 1664B	07/20/22 02:00	07/26/22 08:44			NA
A2G0560-07	Water	EPA 1664B	07/20/22 03:15	07/26/22 08:44			NA
A2G0560-08	Water	EPA 1664B	07/20/22 03:30	07/26/22 08:44			NA
A2G0560-09	Water	EPA 1664B	07/20/22 01:10	07/26/22 08:44			NA

Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12 (W)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0711</u>							
A2G0560-01	Water	D7511-12	07/20/22 00:45	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-02	Water	D7511-12	07/20/22 01:00	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-04	Water	D7511-12	07/20/22 01:30	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-05	Water	D7511-12	07/20/22 01:45	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-06	Water	D7511-12	07/20/22 02:00	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-07	Water	D7511-12	07/20/22 03:15	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-08	Water	D7511-12	07/20/22 03:30	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-09	Water	D7511-12	07/20/22 01:10	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-10	Water	D7511-12	07/20/22 01:40	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-11	Water	D7511-12	07/20/22 00:10	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00
A2G0560-12	Water	D7511-12	07/20/22 00:30	07/22/22 08:07	10mL/10mL	10mL/10mL	1.00

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Prep: Method Prep: Ag					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0681</u>							
A2G0560-12	Water	D6888-09	07/20/22 00:30	07/21/22 14:02	5mL/5mL	5mL/5mL	1.00

Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection

Apex Laboratories

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Darwin Thomas, Business Development Director



**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**SAMPLE PREPARATION INFORMATION**

**Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection**

<u>Prep: Method</u>		<u>Prep: Ag</u>			Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0662</u>							
A2G0560-12	Water	D7237-10	07/20/22 00:30	07/21/22 10:36	5mL/5mL	5mL/5mL	1.00

**Solid and Moisture Determinations**

<u>Prep: Total Suspended Solids</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0716</u>							
A2G0560-09	Water	SM 2540 D	07/20/22 01:10	07/22/22 11:40			NA
A2G0560-12	Water	SM 2540 D	07/20/22 00:30	07/22/22 11:40			NA

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**ANALYTICAL REPORT**

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

**Sevenson Environmental Services, Inc.**  
2749 Lockport Road  
Niagara Falls, NY 14305

Project: **Gasco -- Monthly (2022)**  
Project Number: **000029-02-20-2**  
Project Manager: **Chip Byrd**

**Report ID:**  
**A2G0560 - 08 16 22 0839**

**QUALIFIER DEFINITIONS**

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

**Apex Laboratories**

- B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- E** Estimated Value. The result is above the calibration range of the instrument.
- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- PRES** Incomplete field preservation. Additional preservative was added to adjust the pH within the appropriate range for this analysis.
- 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-06** Internal Standard area outside of method specified limits. Data is Not Reported. See previous or subsequent runs for reportable sample data.
- 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 +1%. 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 +2%. 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 +20%. 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 +4%. The results are reported as Estimated Values.
- Q-54e** 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-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +6%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +7%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The results are reported as Estimated Values.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

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**ANALYTICAL REPORT**

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- S-06** Surrogate recovery is outside of established control limits.
- SL-1** Result is considered an estimated value. Less than 1 liter of sample was used in analysis and the method minimum residue of 2.5 mg was not met. The reporting level has been adjusted accordingly to reflect the increased uncertainty of the result.

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ANALYTICAL REPORT

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**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

Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Monthly (2022)), and Report ID (A2G0560 - 08 16 22 0839).

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.

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.

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.

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 (Sevenson Environmental Services, Inc.), Project (Gasco -- Monthly (2022)), and Report ID (A2G0560 - 08 16 22 0839).

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

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

<b>Sevenson Environmental Services, Inc.</b> 2749 Lockport Road Niagara Falls, NY 14305	Project: <b>Gasco -- Monthly (2022)</b> Project Number: <b>000029-02-20-2</b> Project Manager: <b>Chip Byrd</b>	<b>Report ID:</b> <b>A2G0560 - 08 16 22 0839</b>
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**APEX LABS COOLER RECEIPT FORM**

Client: Sevenson Environmental Services Inc Element WO#: A2 G0560

Project/Project #: Case 0-Monthly

**Delivery Info:**  
 Date/time received: 7/20/22 @ 1210 By: AM  
 Delivered by: Apex  Client  ESS  FedEx  UPS  Swift  Senvoy  SDS  Other \_\_\_\_\_

**Cooler Inspection** Date/time inspected: 7/20/22 @ 1300 By: AM

Chain of Custody included? Yes  No \_\_\_\_\_ Custody seals? Yes \_\_\_\_\_ No

Signed/dated by client? Yes  No \_\_\_\_\_

Signed/dated by Apex? Yes  No \_\_\_\_\_

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.9</u>	<u>5.8</u>	<u>4.2</u>	<u>3.9</u>	<u>5.2</u>		
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Ice type: (Gel/Real/Other)	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>		
Condition:	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</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: 7/20/22 @ 1415 By: KS/ARK

All samples intact? Yes  No \_\_\_\_\_ Comments: \_\_\_\_\_

Bottle labels/COCs agree? Yes  No  Comments: 1631 Hg TB's listed on COC, but none provided. PGAC time reads 0145.

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: HS on TWIB has 1/3, HS on SE has 2/3.

Water samples: pH checked? Yes  No \_\_\_\_\_ NA \_\_\_\_\_ pH appropriate? Yes \_\_\_\_\_ No  NA \_\_\_\_\_

Comments: SI + NWI + TWIA NaOH Poly8 pH ~ 9  
x TWIB

**Additional information:** \_\_\_\_\_

Labeled by: KS Witness: ARK Cooler Inspected by: KS/ARK

Apex Laboratories

*Darwin Thomas*

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Darwin Thomas, Business Development Director

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