



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, December 5, 2023

John Renda
Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

RE: A311199 - Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon - 000029-02.84 T-01.001F

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 A311199, which was received by the laboratory on 9/19/2023 at 9:53:00AM.

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

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

Cooler Receipt Information	
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>	
(See Cooler Receipt Form for details)	
Cooler#1 3.7 degC	Cooler#2 3.4 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



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Darwin Thomas, Business Development Director



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6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**

Project Number: **000029-02.84 T-01.001F**

Project Manager: **John Renda**

Report ID:

A3I1199 - 12 05 23 0646

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-091823-23	A3I1199-01	WG	09/18/23 11:25	09/19/23 09:53
GS-091823-24	A3I1199-02	WG	09/18/23 13:55	09/19/23 09:53
GS-091823-25	A3I1199-03	WG	09/18/23 14:05	09/19/23 09:53
TB-091823	A3I1199-04	W	09/18/23 16:00	09/19/23 09:53

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****ANALYTICAL SAMPLE RESULTS****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-23 (A3I1199-01)		Matrix: WG			Batch: 23J0023			
Diesel	ND	95.2	190	ug/L	1	10/02/23 20:01	NWTPH-Dx	
Oil	ND	190	381	ug/L	1	10/02/23 20:01	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/02/23 20:01</i>	<i>NWTPH-Dx</i>	
GS-091823-24 (A3I1199-02)		Matrix: WG			Batch: 23J0023			
Diesel	717	95.2	190	ug/L	1	10/02/23 21:02	NWTPH-Dx	F-13
Oil	ND	190	381	ug/L	1	10/02/23 21:02	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/02/23 21:02</i>	<i>NWTPH-Dx</i>	
GS-091823-25 (A3I1199-03)		Matrix: WG			Batch: 23J0023			
Diesel	733	94.3	189	ug/L	1	10/02/23 21:22	NWTPH-Dx	F-13
Oil	ND	189	377	ug/L	1	10/02/23 21:22	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/02/23 21:22</i>	<i>NWTPH-Dx</i>	

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ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-23 (A3I1199-01)		Matrix: WG		Batch: 23I0970				
Gasoline Range Organics	167	50.0	100	ug/L	1	09/29/23 02:20	NWTPH-Gx (MS)	F-12
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 103 %	Limits: 50-150 %	1	09/29/23 02:20	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		105 %	50-150 %	1	09/29/23 02:20	NWTPH-Gx (MS)		
GS-091823-24 (A3I1199-02)		Matrix: WG		Batch: 23I0970				
Gasoline Range Organics	61.4	50.0	100	ug/L	1	09/29/23 02:48	NWTPH-Gx (MS)	J
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 105 %	Limits: 50-150 %	1	09/29/23 02:48	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		106 %	50-150 %	1	09/29/23 02:48	NWTPH-Gx (MS)		
GS-091823-25 (A3I1199-03)		Matrix: WG		Batch: 23I0970				
Gasoline Range Organics	68.1	50.0	100	ug/L	1	09/29/23 03:15	NWTPH-Gx (MS)	J
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 105 %	Limits: 50-150 %	1	09/29/23 03:15	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	09/29/23 03:15	NWTPH-Gx (MS)		

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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
GS-091823-23 (A3I1199-01)		Matrix: WG			Batch: 23I0970			
Acetone	ND	10.0	20.0	ug/L	1	09/29/23 02:20	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/29/23 02:20	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/29/23 02:20	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/29/23 02:20	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/29/23 02:20	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Chlorobenzene	7.73	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/29/23 02:20	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,2-Dichlorobenzene	28.0	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	Q-42
1,3-Dichlorobenzene	0.830	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
1,4-Dichlorobenzene	10.9	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/29/23 02:20	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/29/23 02:20	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 02:20	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 02:20	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 02:20	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
GS-091823-23 (A3I1199-01)		Matrix: WG			Batch: 23I0970			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/29/23 02:20	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/29/23 02:20	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/29/23 02:20	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	09/29/23 02:20	EPA 8260D	
Methyl tert-butyl ether (MTBE)	4.42	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	Q-42
Naphthalene	ND	2.50	5.00	ug/L	1	09/29/23 02:20	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/29/23 02:20	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/29/23 02:20	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/29/23 02:20	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/29/23 02:20	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/29/23 02:20	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/29/23 02:20	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/29/23 02:20	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/29/23 02:20	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
GS-091823-23 (A3I1199-01)		Matrix: WG			Batch: 23I0970			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %	Limits: 80-120 %	1		09/29/23 02:20	EPA 8260D	
Toluene-d8 (Surr)		100 %	80-120 %	1		09/29/23 02:20	EPA 8260D	
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1		09/29/23 02:20	EPA 8260D	
GS-091823-24 (A3I1199-02)		Matrix: WG			Batch: 23I0970			
Acetone	ND	10.0	20.0	ug/L	1	09/29/23 02:48	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/29/23 02:48	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/29/23 02:48	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/29/23 02:48	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/29/23 02:48	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/29/23 02:48	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	

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Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-24 (A3I1199-02)		Matrix: WG			Batch: 23I0970			
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/29/23 02:48	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/29/23 02:48	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/29/23 02:48	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	09/29/23 02:48	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/29/23 02:48	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/29/23 02:48	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	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**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-24 (A3I1199-02)		Matrix: WG			Batch: 23I0970			
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/29/23 02:48	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/29/23 02:48	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/29/23 02:48	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>09/29/23 02:48</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/29/23 02:48</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/29/23 02:48</i>	<i>EPA 8260D</i>	
GS-091823-25 (A3I1199-03)		Matrix: WG			Batch: 23I0970			
Acetone	ND	10.0	20.0	ug/L	1	09/29/23 03:15	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/29/23 03:15	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/29/23 03:15	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/29/23 03:15	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/29/23 03:15	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/29/23 03:15	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/29/23 03:15	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**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-25 (A3I1199-03)		Matrix: WG			Batch: 23I0970			
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/29/23 03:15	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/29/23 03:15	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 03:15	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 03:15	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 03:15	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/29/23 03:15	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/29/23 03:15	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/29/23 03:15	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	09/29/23 03:15	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/29/23 03:15	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/29/23 03:15	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/29/23 03:15	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/29/23 03:15	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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-25 (A3I1199-03)		Matrix: WG			Batch: 23I0970			
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/29/23 03:15	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
Vinyl chloride	0.110	0.100	0.200	ug/L	1	09/29/23 03:15	EPA 8260D	J
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/29/23 03:15	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/29/23 03:15	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %	1	09/29/23 03:15	EPA 8260D	
Toluene-d8 (Surr)		99 %		80-120 %	1	09/29/23 03:15	EPA 8260D	
4-Bromofluorobenzene (Surr)		100 %		80-120 %	1	09/29/23 03:15	EPA 8260D	
TB-091823 (A3I1199-04)		Matrix: W			Batch: 23I0970			
Acetone	ND	10.0	20.0	ug/L	1	09/29/23 00:31	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/29/23 00:31	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/29/23 00:31	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/29/23 00:31	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/29/23 00:31	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/29/23 00:31	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	

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Darwin Thomas, Business Development Director

Page 11 of 54



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-091823 (A3I1199-04)		Matrix: W			Batch: 23I0970			
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/29/23 00:31	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/29/23 00:31	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/29/23 00:31	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	09/29/23 00:31	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/29/23 00:31	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/29/23 00:31	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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-091823 (A3I1199-04)		Matrix: W			Batch: 23I0970			
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/29/23 00:31	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/29/23 00:31	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/29/23 00:31	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/29/23 00:31	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>103 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>09/29/23 00:31</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/29/23 00:31</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/29/23 00:31</i>	<i>EPA 8260D</i>

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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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-23 (A3I1199-01)		Matrix: WG			Batch: 23I0619			
Acenaphthene	ND	0.0378	0.0378	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Acenaphthylene	ND	0.0189	0.0378	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Anthracene	ND	0.0189	0.0378	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00944	0.0189	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00944	0.0189	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.00944	0.0189	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00944	0.0189	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0189	0.0378	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Chrysene	ND	0.00944	0.0189	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00944	0.0189	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Fluoranthene	ND	0.0189	0.0378	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Fluorene	ND	0.0189	0.0378	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00944	0.0189	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0378	0.0755	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0378	0.0755	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Naphthalene	ND	0.0378	0.0755	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Phenanthrene	ND	0.0378	0.0755	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Pyrene	ND	0.0189	0.0378	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Dibenzofuran	ND	0.0189	0.0378	ug/L	1	09/20/23 14:46	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 97 %		Limits: 78-134 %	1	09/20/23 14:46	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		115 %		80-132 %	1	09/20/23 14:46	EPA 8270E LVI	
GS-091823-24 (A3I1199-02)		Matrix: WG			Batch: 23I0619			
Acenaphthylene	10.4	0.188	0.376	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Anthracene	0.860	0.188	0.376	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Benz(a)anthracene	0.179	0.0940	0.188	ug/L	10	09/20/23 16:24	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.0940	0.188	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.0940	0.188	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0940	0.188	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.188	0.376	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Chrysene	0.188	0.0940	0.188	ug/L	10	09/20/23 16:24	EPA 8270E LVI	M-05
Dibenz(a,h)anthracene	ND	0.0940	0.188	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Fluoranthene	4.25	0.188	0.376	ug/L	10	09/20/23 16:24	EPA 8270E LVI	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-24 (A3I1199-02)		Matrix: WG			Batch: 23I0619			
Fluorene	9.62	0.188	0.376	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0940	0.188	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
1-Methylnaphthalene	1.37	0.376	0.752	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.376	0.752	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Naphthalene	ND	0.376	0.752	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Phenanthrene	0.978	0.376	0.752	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Pyrene	8.69	0.188	0.376	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Dibenzofuran	ND	0.188	0.376	ug/L	10	09/20/23 16:24	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 67 %		Limits: 78-134 %	10	09/20/23 16:24	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		112 %		80-132 %	10	09/20/23 16:24	EPA 8270E LVI	S-05
GS-091823-24 (A3I1199-02RE1)		Matrix: WG			Batch: 23I0619			
Acenaphthene	220	1.88	3.76	ug/L	100	09/20/23 18:09	EPA 8270E LVI	
GS-091823-25 (A3I1199-03)		Matrix: WG			Batch: 23I0619			
Acenaphthylene	10.4	0.189	0.378	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Anthracene	0.741	0.189	0.378	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Benz(a)anthracene	0.146	0.0944	0.189	ug/L	10	09/20/23 16:57	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.0944	0.189	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.0944	0.189	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0944	0.189	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.189	0.378	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Chrysene	0.161	0.0944	0.189	ug/L	10	09/20/23 16:57	EPA 8270E LVI	J
Dibenz(a,h)anthracene	ND	0.0944	0.189	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Fluoranthene	3.94	0.189	0.378	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Fluorene	9.06	0.189	0.378	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0944	0.189	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
1-Methylnaphthalene	1.35	0.378	0.756	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.378	0.756	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Naphthalene	ND	0.378	0.756	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Phenanthrene	0.911	0.378	0.756	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Pyrene	8.00	0.189	0.378	ug/L	10	09/20/23 16:57	EPA 8270E LVI	
Dibenzofuran	ND	0.189	0.378	ug/L	10	09/20/23 16:57	EPA 8270E LVI	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**

Project Number: **000029-02.84 T-01.001F**

Project Manager: **John Renda**

Report ID:

A3I1199 - 12 05 23 0646

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-25 (A3I1199-03)			Matrix: WG		Batch: 23I0619			
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 56 %	Limits: 78-134 %	10	09/20/23 16:57		EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		103 %	80-132 %	10	09/20/23 16:57		EPA 8270E LVI	S-05
GS-091823-25 (A3I1199-03RE1)			Matrix: WG		Batch: 23I0619			
Acenaphthene	213	1.89	3.78	ug/L	100	09/20/23 18:42		EPA 8270E LVI

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-23 (A3I1199-01)		Matrix: WG						
Batch: 23I0940								
Aluminum	29.4	25.0	50.0	ug/L	1	09/28/23 17:23	EPA 6020B	J
Antimony	ND	0.500	1.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Arsenic	2.16	0.500	1.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Barium	40.1	1.00	2.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/28/23 17:23	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/28/23 17:23	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Iron	19300	25.0	50.0	ug/L	1	09/28/23 17:23	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	09/28/23 17:23	EPA 6020B	
Manganese	1490	0.500	1.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/28/23 17:23	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/28/23 17:23	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/28/23 17:23	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	09/28/23 17:23	EPA 6020B	
Zinc	ND	2.00	4.00	ug/L	1	09/28/23 17:23	EPA 6020B	
GS-091823-24 (A3I1199-02)		Matrix: WG						
Batch: 23I0940								
Aluminum	ND	25.0	50.0	ug/L	1	09/28/23 17:38	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/28/23 17:38	EPA 6020B	
Arsenic	23.2	0.500	1.00	ug/L	1	09/28/23 17:38	EPA 6020B	
Barium	69.1	1.00	2.00	ug/L	1	09/28/23 17:38	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/28/23 17:38	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/28/23 17:38	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/28/23 17:38	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/28/23 17:38	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	09/28/23 17:38	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/28/23 17:38	EPA 6020B	
Nickel	2.15	1.00	2.00	ug/L	1	09/28/23 17:38	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/28/23 17:38	EPA 6020B	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-24 (A3I1199-02)		Matrix: WG						
Silver	ND	0.100	0.200	ug/L	1	09/28/23 17:38	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/28/23 17:38	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	09/28/23 17:38	EPA 6020B	
Zinc	ND	2.00	4.00	ug/L	1	09/28/23 17:38	EPA 6020B	
GS-091823-24 (A3I1199-02RE1)		Matrix: WG						
Batch: 23I0940								
Iron	72800	250	500	ug/L	10	09/29/23 01:24	EPA 6020B	
Manganese	2850	5.00	10.0	ug/L	10	09/29/23 01:24	EPA 6020B	
GS-091823-25 (A3I1199-03)		Matrix: WG						
Batch: 23I0940								
Aluminum	ND	25.0	50.0	ug/L	1	09/28/23 17:43	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Arsenic	22.3	0.500	1.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Barium	67.2	1.00	2.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/28/23 17:43	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/28/23 17:43	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	09/28/23 17:43	EPA 6020B	
Manganese	2720	0.500	1.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/28/23 17:43	EPA 6020B	
Nickel	2.28	1.00	2.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/28/23 17:43	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/28/23 17:43	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	09/28/23 17:43	EPA 6020B	
Zinc	2.37	2.00	4.00	ug/L	1	09/28/23 17:43	EPA 6020B	J, B
GS-091823-25 (A3I1199-03RE1)		Matrix: WG						
Batch: 23I0940								
Iron	71600	250	500	ug/L	10	09/29/23 01:39	EPA 6020B	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****ANALYTICAL SAMPLE RESULTS****Total Cyanide by Flow Analysis (Aqueous)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-23 (A3I1199-01RE1)				Matrix: WG		Batch: 23I0989		
Total Cyanide	0.0271	0.00500	0.00500	mg/L	1	09/29/23 16:58	EPA 335.4	
GS-091823-24 (A3I1199-02)				Matrix: WG		Batch: 23I0817		
Total Cyanide	0.155	0.00500	0.00500	mg/L	1	09/26/23 16:54	EPA 335.4	
GS-091823-25 (A3I1199-03)				Matrix: WG		Batch: 23I0817		
Total Cyanide	0.155	0.00500	0.00500	mg/L	1	09/26/23 17:02	EPA 335.4	

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

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Portland, OR 97219

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Project Number: **000029-02.84 T-01.001F**

Project Manager: **John Renda**

Report ID:

A3I1199 - 12 05 23 0646

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
GS-091823-23 (A3I1199-01)				Matrix: WG		Batch: 23I0791		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/25/23 15:29	D6888-09	
GS-091823-24 (A3I1199-02)				Matrix: WG		Batch: 23I0791		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/25/23 15:35	D6888-09	
GS-091823-25 (A3I1199-03)				Matrix: WG		Batch: 23I0791		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/25/23 15:37	D6888-09	

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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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****ANALYTICAL SAMPLE RESULTS****Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091823-23 (A3I1199-01)				Matrix: WG		Batch: 23I0927		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/28/23 15:56	D4282-02	
GS-091823-24 (A3I1199-02)				Matrix: WG		Batch: 23I0987		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/29/23 12:58	D4282-02	
GS-091823-25 (A3I1199-03)				Matrix: WG		Batch: 23I0927		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/28/23 16:02	D4282-02	

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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****QUALITY CONTROL (QC) SAMPLE RESULTS****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23J0023 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (23J0023-BLK1)			Prepared: 10/02/23 10:54 Analyzed: 10/02/23 19:00										
NWTPH-Dx													
Diesel	ND	100	200	ug/L	1	---	---	---	---	---	---		
Oil	ND	200	400	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x							
LCS (23J0023-BS1)			Prepared: 10/02/23 10:54 Analyzed: 10/02/23 19:20										
NWTPH-Dx													
Diesel	929	100	200	ug/L	1	1250	---	74	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (23J0023-BSD1)			Prepared: 10/02/23 10:54 Analyzed: 10/02/23 19:40										Q-19
NWTPH-Dx													
Diesel	1030	100	200	ug/L	1	1250	---	82	36-132%	10	30%		
Surr: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x							
Matrix Spike (23J0023-MS1)			Prepared: 10/02/23 10:55 Analyzed: 10/02/23 20:21										
QC Source Sample: GS-091823-23 (A3I1199-01)													
NWTPH-Dx													
Diesel	1050	95.2	190	ug/L	1	1190	ND	88	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x							
Matrix Spike Dup (23J0023-MSD1)			Prepared: 10/02/23 10:55 Analyzed: 10/02/23 20:41										
QC Source Sample: GS-091823-23 (A3I1199-01)													
NWTPH-Dx													
Diesel	1030	95.2	190	ug/L	1	1190	ND	86	36-132%	2	30%		
Surr: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x							

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Darwin Thomas, Business Development Director



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Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A311199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310970 - EPA 5030C						Water						
Blank (2310970-BLK1)			Prepared: 09/28/23 17:19 Analyzed: 09/28/23 23:09									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 101 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
LCS (2310970-BS2)			Prepared: 09/28/23 17:19 Analyzed: 09/28/23 22:41									
NWTPH-Gx (MS)												
Gasoline Range Organics	550	50.0	100	ug/L	1	500	---	110	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %		50-150 %		"						
Duplicate (2310970-DUP1)			Prepared: 09/28/23 17:19 Analyzed: 09/29/23 07:49									
QC Source Sample: Non-SDG (A311222-02)												
Gasoline Range Organics	6020	500	1000	ug/L	10	---	6180	---	---	3	30%	F-12
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 100 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						

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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0970 - EPA 5030C						Water						
Blank (23I0970-BLK1)			Prepared: 09/28/23 17:19		Analyzed: 09/28/23 23:09							
EPA 8260D												
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	0.100	0.200	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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503-718-2323

ORELAP ID: OR100062

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310970 - EPA 5030C						Water						
Blank (2310970-BLK1)						Prepared: 09/28/23 17:19 Analyzed: 09/28/23 23:09						
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	0.100	0.200	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	0.100	0.200	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	0.100	0.200	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: 103 % Limits: 80-120 % Dilution: 1x												

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Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0970 - EPA 5030C						Water						
Blank (23I0970-BLK1)			Prepared: 09/28/23 17:19		Analyzed: 09/28/23 23:09							
Surr: Toluene-d8 (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (23I0970-BS1)			Prepared: 09/28/23 17:19		Analyzed: 09/28/23 22:12							
EPA 8260D												
Acetone	36.4	10.0	20.0	ug/L	1	40.0	---	91	80-120%	---	---	
Acrylonitrile	19.6	1.00	2.00	ug/L	1	20.0	---	98	80-120%	---	---	
Benzene	20.8	0.100	0.200	ug/L	1	20.0	---	104	80-120%	---	---	
Bromobenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Bromochloromethane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Bromodichloromethane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Bromoform	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
Bromomethane	20.9	5.00	5.00	ug/L	1	20.0	---	105	80-120%	---	---	
2-Butanone (MEK)	39.9	5.00	10.0	ug/L	1	40.0	---	100	80-120%	---	---	
n-Butylbenzene	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
sec-Butylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
tert-Butylbenzene	21.9	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon disulfide	21.9	5.00	10.0	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon tetrachloride	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Chlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Chloroethane	20.5	5.00	5.00	ug/L	1	20.0	---	103	80-120%	---	---	
Chloroform	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Chloromethane	18.7	2.50	5.00	ug/L	1	20.0	---	94	80-120%	---	---	
2-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Chlorotoluene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Dibromochloromethane	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.6	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.9	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Dibromomethane	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichlorobenzene	21.1	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
1,4-Dichlorobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Dichlorodifluoromethane	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,1-Dichloroethane	20.4	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	

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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
Batch 2310970 - EPA 5030C						Water						
LCS (2310970-BS1)						Prepared: 09/28/23 17:19 Analyzed: 09/28/23 22:12						
1,2-Dichloroethane (EDC)	20.1	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,1-Dichloroethene	21.8	0.100	0.200	ug/L	1	20.0	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	20.5	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,2-Dichloroethene	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichloropropane	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
1,3-Dichloropropane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
2,2-Dichloropropane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1-Dichloropropene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
cis-1,3-Dichloropropene	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
trans-1,3-Dichloropropene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Ethylbenzene	20.7	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Hexachlorobutadiene	19.4	2.50	5.00	ug/L	1	20.0	---	97	80-120%	---	---	
2-Hexanone	35.0	5.00	10.0	ug/L	1	40.0	---	87	80-120%	---	---	
Isopropylbenzene	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
4-Isopropyltoluene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Methylene chloride	20.8	5.00	10.0	ug/L	1	20.0	---	104	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	39.4	5.00	10.0	ug/L	1	40.0	---	99	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Naphthalene	20.2	2.50	5.00	ug/L	1	20.0	---	101	80-120%	---	---	
n-Propylbenzene	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Styrene	19.8	0.500	1.00	ug/L	1	20.0	---	99	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	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Tetrachloroethene (PCE)	20.5	0.100	0.200	ug/L	1	20.0	---	103	80-120%	---	---	
Toluene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	21.7	1.00	2.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2,4-Trichlorobenzene	21.1	1.00	2.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,1-Trichloroethane	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
1,1,2-Trichloroethane	20.7	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Trichloroethene (TCE)	19.8	0.100	0.200	ug/L	1	20.0	---	99	80-120%	---	---	
Trichlorofluoromethane	22.3	1.00	2.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2,3-Trichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,4-Trimethylbenzene	22.7	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,3,5-Trimethylbenzene	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	

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Darwin Thomas, Business Development Director

Page 27 of 54



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0970 - EPA 5030C						Water						
LCS (23I0970-BS1)						Prepared: 09/28/23 17:19 Analyzed: 09/28/23 22:12						
Vinyl chloride	20.7	0.100	0.200	ug/L	1	20.0	---	103	80-120%	---	---	
m,p-Xylene	40.7	0.500	1.00	ug/L	1	40.0	---	102	80-120%	---	---	
o-Xylene	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

Duplicate (23I0970-DUP1)

Prepared: 09/28/23 17:19 Analyzed: 09/29/23 07:49

QC Source Sample: Non-SDG (A3I1222-02)

Acetone	ND	100	200	ug/L	10	---	ND	---	---	---	30%	
Acrylonitrile	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
Benzene	15.6	1.00	2.00	ug/L	10	---	16.3	---	---	4	30%	
Bromobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Bromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromoform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromomethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Carbon disulfide	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Chlorobenzene	2070	2.50	5.00	ug/L	10	---	2130	---	---	3	30%	E
Chloroethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
Chloroform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Chloromethane	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Dibromomethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0970 - EPA 5030C						Water						
Duplicate (23I0970-DUP1)			Prepared: 09/28/23 17:19 Analyzed: 09/29/23 07:49									
QC Source Sample: Non-SDG (A3I1222-02)												
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	233	2.50	5.00	ug/L	10	---	235	---	---	0.9	30%	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Hexanone	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Isopropylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Methylene chloride	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
n-Propylbenzene	9.20	2.50	5.00	ug/L	10	---	9.20	---	---	0	30%	
Styrene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



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503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A311199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310970 - EPA 5030C						Water						
Duplicate (2310970-DUP1)			Prepared: 09/28/23 17:19		Analyzed: 09/29/23 07:49							
QC Source Sample: Non-SDG (A311222-02)												
Trichloroethene (TCE)	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Vinyl chloride	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
m,p-Xylene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
o-Xylene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

Matrix Spike (2310970-MS1)

Prepared: 09/28/23 17:19 Analyzed: 09/29/23 10:06

QC Source Sample: GS-091823-23 (A311199-01)

EPA 8260D

Acetone	41.4	10.0	20.0	ug/L	1	40.0	ND	104	39-160%	---	---	
Acrylonitrile	21.4	1.00	2.00	ug/L	1	20.0	ND	107	63-135%	---	---	
Benzene	23.2	0.100	0.200	ug/L	1	20.0	ND	116	79-120%	---	---	
Bromobenzene	20.9	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
Bromochloromethane	22.0	0.500	1.00	ug/L	1	20.0	ND	110	78-123%	---	---	
Bromodichloromethane	23.0	0.500	1.00	ug/L	1	20.0	ND	115	79-125%	---	---	
Bromoform	20.1	0.500	1.00	ug/L	1	20.0	ND	101	66-130%	---	---	
Bromomethane	16.7	5.00	5.00	ug/L	1	20.0	ND	84	53-141%	---	---	
2-Butanone (MEK)	40.7	5.00	10.0	ug/L	1	40.0	ND	102	56-143%	---	---	
n-Butylbenzene	24.0	0.500	1.00	ug/L	1	20.0	ND	120	75-128%	---	---	
sec-Butylbenzene	23.9	0.500	1.00	ug/L	1	20.0	ND	120	77-126%	---	---	
tert-Butylbenzene	23.7	0.500	1.00	ug/L	1	20.0	ND	118	78-124%	---	---	
Carbon disulfide	25.6	5.00	10.0	ug/L	1	20.0	ND	128	64-133%	---	---	
Carbon tetrachloride	26.1	0.500	1.00	ug/L	1	20.0	ND	130	72-136%	---	---	
Chlorobenzene	28.5	0.250	0.500	ug/L	1	20.0	7.73	104	80-120%	---	---	
Chloroethane	23.2	5.00	5.00	ug/L	1	20.0	ND	116	60-138%	---	---	
Chloroform	21.9	0.500	1.00	ug/L	1	20.0	ND	109	79-124%	---	---	
Chloromethane	20.9	2.50	5.00	ug/L	1	20.0	ND	104	50-139%	---	---	

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Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310970 - EPA 5030C						Water						
Matrix Spike (2310970-MS1)			Prepared: 09/28/23 17:19		Analyzed: 09/29/23 10:06							
QC Source Sample: GS-091823-23 (A3I1199-01)												
2-Chlorotoluene	22.5	0.500	1.00	ug/L	1	20.0	ND	112	79-122%	---	---	
4-Chlorotoluene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	78-122%	---	---	
Dibromochloromethane	20.6	0.500	1.00	ug/L	1	20.0	ND	103	74-126%	---	---	
1,2-Dibromo-3-chloropropane	19.4	2.50	5.00	ug/L	1	20.0	ND	97	62-128%	---	---	
1,2-Dibromoethane (EDB)	22.4	0.250	0.500	ug/L	1	20.0	ND	112	77-121%	---	---	
Dibromomethane	20.4	0.500	1.00	ug/L	1	20.0	ND	102	79-123%	---	---	
1,2-Dichlorobenzene	50.8	0.250	0.500	ug/L	1	20.0	28.0	114	80-120%	---	---	
1,3-Dichlorobenzene	23.9	0.250	0.500	ug/L	1	20.0	0.830	116	80-120%	---	---	
1,4-Dichlorobenzene	30.6	0.250	0.500	ug/L	1	20.0	10.9	98	79-120%	---	---	
Dichlorodifluoromethane	25.2	0.500	1.00	ug/L	1	20.0	ND	126	32-152%	---	---	
1,1-Dichloroethane	22.6	0.200	0.400	ug/L	1	20.0	ND	113	77-125%	---	---	
1,2-Dichloroethane (EDC)	21.3	0.200	0.400	ug/L	1	20.0	ND	107	73-128%	---	---	
1,1-Dichloroethene	24.8	0.100	0.200	ug/L	1	20.0	ND	124	71-131%	---	---	
cis-1,2-Dichloroethene	22.6	0.200	0.400	ug/L	1	20.0	ND	113	78-123%	---	---	
trans-1,2-Dichloroethene	22.6	0.200	0.400	ug/L	1	20.0	ND	113	75-124%	---	---	
1,2-Dichloropropane	21.6	0.250	0.500	ug/L	1	20.0	ND	108	78-122%	---	---	
1,3-Dichloropropane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	80-120%	---	---	
2,2-Dichloropropane	17.9	0.500	1.00	ug/L	1	20.0	ND	89	60-139%	---	---	
1,1-Dichloropropene	25.0	0.500	1.00	ug/L	1	20.0	ND	125	79-125%	---	---	
cis-1,3-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	ND	93	75-124%	---	---	
trans-1,3-Dichloropropene	19.9	0.500	1.00	ug/L	1	20.0	ND	99	73-127%	---	---	
Ethylbenzene	22.4	0.250	0.500	ug/L	1	20.0	ND	112	79-121%	---	---	
Hexachlorobutadiene	21.6	2.50	5.00	ug/L	1	20.0	ND	108	66-134%	---	---	
2-Hexanone	37.0	5.00	10.0	ug/L	1	40.0	ND	93	57-139%	---	---	
Isopropylbenzene	21.8	0.500	1.00	ug/L	1	20.0	ND	109	72-131%	---	---	
4-Isopropyltoluene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	77-127%	---	---	
Methylene chloride	21.3	5.00	10.0	ug/L	1	20.0	ND	107	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	41.1	5.00	10.0	ug/L	1	40.0	ND	103	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	28.5	0.500	1.00	ug/L	1	20.0	4.42	120	71-124%	---	---	
Naphthalene	21.3	2.50	5.00	ug/L	1	20.0	ND	106	61-128%	---	---	
n-Propylbenzene	22.9	0.250	0.500	ug/L	1	20.0	ND	114	76-126%	---	---	
Styrene	20.8	0.500	1.00	ug/L	1	20.0	ND	104	78-123%	---	---	
1,1,1,2-Tetrachloroethane	23.4	0.200	0.400	ug/L	1	20.0	ND	117	78-124%	---	---	

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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
Batch 23I0970 - EPA 5030C						Water						
Matrix Spike (23I0970-MS1)			Prepared: 09/28/23 17:19 Analyzed: 09/29/23 10:06									
QC Source Sample: GS-091823-23 (A3I1199-01)												
1,1,2,2-Tetrachloroethane	21.3	0.250	0.500	ug/L	1	20.0	ND	106	71-121%	---	---	
Tetrachloroethene (PCE)	23.0	0.100	0.200	ug/L	1	20.0	ND	115	74-129%	---	---	
Toluene	20.6	0.250	0.500	ug/L	1	20.0	ND	103	80-121%	---	---	
1,2,3-Trichlorobenzene	23.2	1.00	2.00	ug/L	1	20.0	ND	116	69-129%	---	---	
1,2,4-Trichlorobenzene	22.4	1.00	2.00	ug/L	1	20.0	ND	112	69-130%	---	---	
1,1,1-Trichloroethane	24.2	0.200	0.400	ug/L	1	20.0	ND	121	74-131%	---	---	
1,1,2-Trichloroethane	21.7	0.250	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
Trichloroethene (TCE)	21.6	0.100	0.200	ug/L	1	20.0	ND	108	79-123%	---	---	
Trichlorofluoromethane	26.0	1.00	2.00	ug/L	1	20.0	ND	130	65-141%	---	---	
1,2,3-Trichloropropane	21.3	0.500	1.00	ug/L	1	20.0	ND	107	73-122%	---	---	
1,2,4-Trimethylbenzene	24.6	0.500	1.00	ug/L	1	20.0	ND	123	76-124%	---	---	
1,3,5-Trimethylbenzene	24.4	0.500	1.00	ug/L	1	20.0	ND	122	75-124%	---	---	
Vinyl chloride	23.6	0.100	0.200	ug/L	1	20.0	ND	118	58-137%	---	---	
m,p-Xylene	43.5	0.500	1.00	ug/L	1	40.0	ND	109	80-121%	---	---	
o-Xylene	21.1	0.250	0.500	ug/L	1	20.0	ND	105	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

Matrix Spike Dup (23I0970-MSD1)

Prepared: 09/28/23 17:19 Analyzed: 09/29/23 10:34

T-02

QC Source Sample: GS-091823-23 (A3I1199-01)

EPA 8260D

Acrylonitrile	22.4	1.00	2.00	ug/L	1	20.0	ND	112	63-135%	5	30%
Benzene	24.0	0.100	0.200	ug/L	1	20.0	ND	120	79-120%	3	30%
Bromobenzene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	80-120%	2	30%
Bromochloromethane	22.3	0.500	1.00	ug/L	1	20.0	ND	112	78-123%	1	30%
Bromodichloromethane	23.6	0.500	1.00	ug/L	1	20.0	ND	118	79-125%	2	30%
Bromoform	20.8	0.500	1.00	ug/L	1	20.0	ND	104	66-130%	3	30%
Bromomethane	17.7	5.00	5.00	ug/L	1	20.0	ND	88	53-141%	5	30%
2-Butanone (MEK)	43.1	5.00	10.0	ug/L	1	40.0	ND	108	56-143%	6	30%
n-Butylbenzene	24.9	0.500	1.00	ug/L	1	20.0	ND	124	75-128%	3	30%
sec-Butylbenzene	24.6	0.500	1.00	ug/L	1	20.0	ND	123	77-126%	3	30%
tert-Butylbenzene	24.4	0.500	1.00	ug/L	1	20.0	ND	122	78-124%	3	30%

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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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310970 - EPA 5030C						Water						
Matrix Spike Dup (2310970-MSD1)			Prepared: 09/28/23 17:19		Analyzed: 09/29/23 10:34		T-02					
QC Source Sample: GS-091823-23 (A311199-01)												
Carbon disulfide	26.8	5.00	10.0	ug/L	1	20.0	ND	134	64-133%	5	30%	Q-01
Carbon tetrachloride	26.8	0.500	1.00	ug/L	1	20.0	ND	134	72-136%	3	30%	
Chlorobenzene	29.4	0.250	0.500	ug/L	1	20.0	7.73	109	80-120%	3	30%	
Chloroethane	25.3	5.00	5.00	ug/L	1	20.0	ND	126	60-138%	9	30%	
Chloroform	22.5	0.500	1.00	ug/L	1	20.0	ND	113	79-124%	3	30%	
Chloromethane	22.9	2.50	5.00	ug/L	1	20.0	ND	114	50-139%	9	30%	
2-Chlorotoluene	23.1	0.500	1.00	ug/L	1	20.0	ND	116	79-122%	3	30%	
4-Chlorotoluene	23.8	0.500	1.00	ug/L	1	20.0	ND	119	78-122%	3	30%	
Dibromochloromethane	21.1	0.500	1.00	ug/L	1	20.0	ND	105	74-126%	2	30%	
1,2-Dibromo-3-chloropropane	20.4	2.50	5.00	ug/L	1	20.0	ND	102	62-128%	5	30%	
1,2-Dibromoethane (EDB)	22.6	0.250	0.500	ug/L	1	20.0	ND	113	77-121%	0.8	30%	
Dibromomethane	21.1	0.500	1.00	ug/L	1	20.0	ND	106	79-123%	3	30%	
1,2-Dichlorobenzene	52.1	0.250	0.500	ug/L	1	20.0	28.0	121	80-120%	2	30%	Q-01
1,3-Dichlorobenzene	24.7	0.250	0.500	ug/L	1	20.0	0.830	119	80-120%	3	30%	
1,4-Dichlorobenzene	31.5	0.250	0.500	ug/L	1	20.0	10.9	103	79-120%	3	30%	
Dichlorodifluoromethane	26.0	0.500	1.00	ug/L	1	20.0	ND	130	32-152%	3	30%	
1,1-Dichloroethane	23.2	0.200	0.400	ug/L	1	20.0	ND	116	77-125%	2	30%	
1,2-Dichloroethane (EDC)	21.8	0.200	0.400	ug/L	1	20.0	ND	109	73-128%	2	30%	
1,1-Dichloroethene	25.2	0.100	0.400	ug/L	1	20.0	ND	126	71-131%	2	30%	
cis-1,2-Dichloroethene	23.6	0.200	0.400	ug/L	1	20.0	ND	118	78-123%	4	30%	
trans-1,2-Dichloroethene	23.3	0.200	0.400	ug/L	1	20.0	ND	117	75-124%	3	30%	
1,2-Dichloropropane	22.1	0.250	0.500	ug/L	1	20.0	ND	111	78-122%	2	30%	
1,3-Dichloropropane	23.0	0.500	1.00	ug/L	1	20.0	ND	115	80-120%	3	30%	
2,2-Dichloropropane	18.1	0.500	1.00	ug/L	1	20.0	ND	90	60-139%	1	30%	
1,1-Dichloropropene	25.7	0.500	1.00	ug/L	1	20.0	ND	128	79-125%	3	30%	Q-01
cis-1,3-Dichloropropene	19.4	0.500	1.00	ug/L	1	20.0	ND	97	75-124%	4	30%	
trans-1,3-Dichloropropene	20.5	0.500	1.00	ug/L	1	20.0	ND	102	73-127%	3	30%	
Ethylbenzene	23.2	0.250	0.500	ug/L	1	20.0	ND	116	79-121%	4	30%	
Hexachlorobutadiene	22.1	2.50	5.00	ug/L	1	20.0	ND	110	66-134%	2	30%	
2-Hexanone	39.2	5.00	10.0	ug/L	1	40.0	ND	98	57-139%	6	30%	
Isopropylbenzene	22.6	0.500	1.00	ug/L	1	20.0	ND	113	72-131%	4	30%	
4-Isopropyltoluene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	77-127%	4	30%	
Methylene chloride	21.9	5.00	10.0	ug/L	1	20.0	ND	110	74-124%	3	30%	

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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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0970 - EPA 5030C						Water						
Matrix Spike Dup (23I0970-MSD1)			Prepared: 09/28/23 17:19		Analyzed: 09/29/23 10:34		T-02					
QC Source Sample: GS-091823-23 (A3I1199-01)												
4-Methyl-2-pentanone (MiBK)	43.5	5.00	10.0	ug/L	1	40.0	ND	109	67-130%	6	30%	Q-01
Methyl tert-butyl ether (MTBE)	29.8	0.500	1.00	ug/L	1	20.0	4.42	127	71-124%	4	30%	
Naphthalene	22.0	2.50	5.00	ug/L	1	20.0	ND	110	61-128%	3	30%	
n-Propylbenzene	23.4	0.250	0.500	ug/L	1	20.0	ND	117	76-126%	2	30%	
Styrene	21.5	0.500	1.00	ug/L	1	20.0	ND	107	78-123%	3	30%	Q-01
1,1,1,2-Tetrachloroethane	24.7	0.200	0.400	ug/L	1	20.0	ND	123	78-124%	5	30%	
1,1,2,2-Tetrachloroethane	21.9	0.250	0.500	ug/L	1	20.0	ND	110	71-121%	3	30%	
Tetrachloroethene (PCE)	23.6	0.100	0.200	ug/L	1	20.0	ND	118	74-129%	3	30%	
Toluene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	80-121%	4	30%	Q-01
1,2,3-Trichlorobenzene	23.9	1.00	2.00	ug/L	1	20.0	ND	119	69-129%	3	30%	
1,2,4-Trichlorobenzene	23.2	1.00	2.00	ug/L	1	20.0	ND	116	69-130%	4	30%	
1,1,1-Trichloroethane	25.2	0.200	0.400	ug/L	1	20.0	ND	126	74-131%	4	30%	
1,1,2-Trichloroethane	22.3	0.250	0.500	ug/L	1	20.0	ND	112	80-120%	3	30%	Q-01
Trichloroethene (TCE)	22.4	0.100	0.200	ug/L	1	20.0	ND	111	79-123%	3	30%	
Trichlorofluoromethane	26.7	1.00	2.00	ug/L	1	20.0	ND	134	65-141%	3	30%	
1,2,3-Trichloropropane	21.9	0.500	1.00	ug/L	1	20.0	ND	109	73-122%	3	30%	
1,2,4-Trimethylbenzene	25.3	0.500	1.00	ug/L	1	20.0	ND	126	76-124%	3	30%	Q-01
1,3,5-Trimethylbenzene	25.0	0.500	1.00	ug/L	1	20.0	ND	125	75-124%	2	30%	
Vinyl chloride	24.7	0.100	0.200	ug/L	1	20.0	ND	123	58-137%	5	30%	
m,p-Xylene	45.0	0.500	1.00	ug/L	1	40.0	ND	112	80-121%	3	30%	
o-Xylene	21.8	0.250	0.500	ug/L	1	20.0	ND	109	78-122%	3	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0619 - EPA 3511 (Bottle Extraction)						Water						
Blank (23I0619-BLK1)			Prepared: 09/20/23 09:31		Analyzed: 09/20/23 13:41							
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b+j)fluoranthene(s)	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 98 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		114 %		80-132 %		"						

LCS (23I0619-BS1)

Prepared: 09/20/23 09:31 Analyzed: 09/20/23 14:13

EPA 8270E LVI

Acenaphthene	1.67	0.0160	0.0320	ug/L	1	1.60	---	105	80-120%	---	---
Acenaphthylene	1.69	0.0160	0.0320	ug/L	1	1.60	---	106	80-124%	---	---
Anthracene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	80-123%	---	---
Benz(a)anthracene	1.74	0.00800	0.0160	ug/L	1	1.60	---	108	80-122%	---	---
Benzo(a)pyrene	1.80	0.00800	0.0160	ug/L	1	1.60	---	113	80-129%	---	---
Benzo(b+j)fluoranthene(s)	1.76	0.00800	0.0160	ug/L	1	1.60	---	110	80-124%	---	---
Benzo(k)fluoranthene	1.80	0.00800	0.0160	ug/L	1	1.60	---	112	80-125%	---	---
Benzo(g,h,i)perylene	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	80-120%	---	---

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Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0619 - EPA 3511 (Bottle Extraction)						Water						
LCS (23I0619-BS1)						Prepared: 09/20/23 09:31 Analyzed: 09/20/23 14:13						
Chrysene	1.67	0.00800	0.0160	ug/L	1	1.60	---	104	80-120%	---	---	
Dibenz(a,h)anthracene	1.69	0.00800	0.0160	ug/L	1	1.60	---	105	80-120%	---	---	
Fluoranthene	1.91	0.0160	0.0320	ug/L	1	1.60	---	119	80-126%	---	---	
Fluorene	1.74	0.0160	0.0320	ug/L	1	1.60	---	109	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.68	0.00800	0.0160	ug/L	1	1.60	---	105	80-121%	---	---	
1-Methylnaphthalene	1.78	0.0320	0.0640	ug/L	1	1.60	---	111	53-148%	---	---	
2-Methylnaphthalene	1.68	0.0320	0.0640	ug/L	1	1.60	---	105	48-150%	---	---	
Naphthalene	1.73	0.0320	0.0640	ug/L	1	1.60	---	108	78-120%	---	---	
Phenanthrene	1.64	0.0320	0.0640	ug/L	1	1.60	---	103	80-120%	---	---	
Pyrene	1.88	0.0160	0.0320	ug/L	1	1.60	---	117	80-125%	---	---	
Carbazole	1.66	0.0160	0.0320	ug/L	1	1.60	---	104	65-141%	---	---	
Dibenzofuran	1.64	0.0160	0.0320	ug/L	1	1.60	---	102	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)						Recovery: 96 % Limits: 78-134 % Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)						115 % 80-132 % "						

Matrix Spike (23I0619-MS1)

Prepared: 09/20/23 09:31 Analyzed: 09/20/23 15:19

QC Source Sample: GS-091823-23 (A3I1199-01)

EPA 8270E LVI

Acenaphthene	2.12	0.0402	0.0402	ug/L	1	2.01	ND	106	80-120%	---	---	
Acenaphthylene	2.12	0.0201	0.0402	ug/L	1	2.01	ND	106	80-124%	---	---	
Anthracene	2.18	0.0201	0.0402	ug/L	1	2.01	ND	108	80-123%	---	---	
Benz(a)anthracene	2.25	0.0100	0.0201	ug/L	1	2.01	ND	112	80-122%	---	---	
Benzo(a)pyrene	2.29	0.0100	0.0201	ug/L	1	2.01	ND	114	80-129%	---	---	
Benzo(b+j)fluoranthene(s)	2.22	0.0100	0.0201	ug/L	1	2.01	ND	110	80-124%	---	---	
Benzo(k)fluoranthene	2.28	0.0100	0.0201	ug/L	1	2.01	ND	113	80-125%	---	---	
Benzo(g,h,i)perylene	2.05	0.0201	0.0402	ug/L	1	2.01	ND	102	80-120%	---	---	
Chrysene	2.13	0.0100	0.0201	ug/L	1	2.01	ND	106	80-120%	---	---	
Dibenz(a,h)anthracene	2.13	0.0100	0.0201	ug/L	1	2.01	ND	106	80-120%	---	---	
Fluoranthene	2.38	0.0201	0.0402	ug/L	1	2.01	ND	118	80-126%	---	---	
Fluorene	2.25	0.0201	0.0402	ug/L	1	2.01	ND	112	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	2.10	0.0100	0.0201	ug/L	1	2.01	ND	104	80-121%	---	---	
1-Methylnaphthalene	2.12	0.0402	0.0804	ug/L	1	2.01	ND	105	53-148%	---	---	
2-Methylnaphthalene	2.02	0.0402	0.0804	ug/L	1	2.01	ND	101	48-150%	---	---	
Naphthalene	2.28	0.0402	0.0804	ug/L	1	2.01	ND	114	78-120%	---	---	

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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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0619 - EPA 3511 (Bottle Extraction)						Water						
Matrix Spike (23I0619-MS1)			Prepared: 09/20/23 09:31		Analyzed: 09/20/23 15:19							
QC Source Sample: GS-091823-23 (A3I1199-01)												
Phenanthrene	2.11	0.0402	0.0804	ug/L	1	2.01	ND	105	80-120%	---	---	
Pyrene	2.38	0.0201	0.0402	ug/L	1	2.01	ND	118	80-125%	---	---	
Carbazole	2.12	0.0201	0.0402	ug/L	1	2.01	ND	106	65-141%	---	---	
Dibenzofuran	2.09	0.0201	0.0402	ug/L	1	2.01	ND	104	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 96 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		117 %		80-132 %		"						

Matrix Spike Dup (23I0619-MSD1)

Prepared: 09/20/23 09:31 Analyzed: 09/20/23 15:51

QC Source Sample: GS-091823-23 (A3I1199-01)												
EPA 8270E LVI												
Acenaphthene	2.05	0.0384	0.0384	ug/L	1	1.92	ND	107	80-120%	3	30%	
Acenaphthylene	2.02	0.0192	0.0384	ug/L	1	1.92	ND	105	80-124%	5	30%	
Anthracene	2.07	0.0192	0.0384	ug/L	1	1.92	ND	108	80-123%	5	30%	
Benz(a)anthracene	2.13	0.00960	0.0192	ug/L	1	1.92	ND	111	80-122%	5	30%	
Benzo(a)pyrene	2.17	0.00960	0.0192	ug/L	1	1.92	ND	113	80-129%	6	30%	
Benzo(b+j)fluoranthene(s)	2.11	0.00960	0.0192	ug/L	1	1.92	ND	110	80-124%	5	30%	
Benzo(k)fluoranthene	2.20	0.00960	0.0192	ug/L	1	1.92	ND	114	80-125%	4	30%	
Benzo(g,h,i)perylene	1.98	0.0192	0.0384	ug/L	1	1.92	ND	103	80-120%	3	30%	
Chrysene	2.02	0.00960	0.0192	ug/L	1	1.92	ND	105	80-120%	5	30%	
Dibenz(a,h)anthracene	2.04	0.00960	0.0192	ug/L	1	1.92	ND	106	80-120%	4	30%	
Fluoranthene	2.24	0.0192	0.0384	ug/L	1	1.92	ND	117	80-126%	6	30%	
Fluorene	2.12	0.0192	0.0384	ug/L	1	1.92	ND	110	77-127%	6	30%	
Indeno(1,2,3-cd)pyrene	2.01	0.00960	0.0192	ug/L	1	1.92	ND	105	80-121%	4	30%	
1-Methylnaphthalene	2.01	0.0384	0.0768	ug/L	1	1.92	ND	105	53-148%	5	30%	
2-Methylnaphthalene	1.90	0.0384	0.0768	ug/L	1	1.92	ND	99	48-150%	6	30%	
Naphthalene	2.18	0.0384	0.0768	ug/L	1	1.92	ND	114	78-120%	4	30%	
Phenanthrene	2.00	0.0384	0.0768	ug/L	1	1.92	ND	104	80-120%	5	30%	
Pyrene	2.25	0.0192	0.0384	ug/L	1	1.92	ND	117	80-125%	5	30%	
Carbazole	2.01	0.0192	0.0384	ug/L	1	1.92	ND	105	65-141%	5	30%	
Dibenzofuran	2.00	0.0192	0.0384	ug/L	1	1.92	ND	104	76-121%	4	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 96 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		114 %		80-132 %		"						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

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
Batch 23I0940 - EPA 3015A						Water						
Blank (23I0940-BLK1)			Prepared: 09/28/23 10:20		Analyzed: 09/28/23 16:31							
EPA 6020B												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	7.14	1.00	2.00	ug/L	1	---	---	---	---	---	---	B
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	0.318	0.110	0.200	ug/L	1	---	---	---	---	---	---	B
Manganese	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Vanadium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Zinc	4.82	2.00	4.00	ug/L	1	---	---	---	---	---	---	B

LCS (23I0940-BS1)

Prepared: 09/28/23 10:20 Analyzed: 09/28/23 16:36

EPA 6020B												
Aluminum	2930	25.0	50.0	ug/L	1	2780	---	105	80-120%	---	---	
Antimony	28.1	0.500	1.00	ug/L	1	27.8	---	101	80-120%	---	---	
Arsenic	54.5	0.500	1.00	ug/L	1	55.6	---	98	80-120%	---	---	
Barium	57.0	1.00	2.00	ug/L	1	55.6	---	103	80-120%	---	---	
Beryllium	27.9	0.100	0.200	ug/L	1	27.8	---	100	80-120%	---	---	
Cadmium	55.2	0.100	0.200	ug/L	1	55.6	---	99	80-120%	---	---	
Chromium	54.4	1.00	2.00	ug/L	1	55.6	---	98	80-120%	---	---	
Copper	53.8	1.00	2.00	ug/L	1	55.6	---	97	80-120%	---	---	B
Iron	2870	25.0	50.0	ug/L	1	2780	---	103	80-120%	---	---	
Lead	57.5	0.110	0.200	ug/L	1	55.6	---	103	80-120%	---	---	B
Manganese	55.1	0.500	1.00	ug/L	1	55.6	---	99	80-120%	---	---	
Mercury	1.11	0.0400	0.0800	ug/L	1	1.11	---	100	80-120%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

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
Batch 23I0940 - EPA 3015A												
Water												
LCS (23I0940-BS1)												
Prepared: 09/28/23 10:20 Analyzed: 09/28/23 16:36												
Nickel	56.3	1.00	2.00	ug/L	1	55.6	---	101	80-120%	---	---	
Selenium	27.1	0.500	1.00	ug/L	1	27.8	---	98	80-120%	---	---	
Silver	28.7	0.100	0.200	ug/L	1	27.8	---	103	80-120%	---	---	
Thallium	27.0	0.100	0.200	ug/L	1	27.8	---	97	80-120%	---	---	
Vanadium	54.0	1.00	2.00	ug/L	1	55.6	---	97	80-120%	---	---	
Zinc	56.8	2.00	4.00	ug/L	1	55.6	---	102	80-120%	---	---	B

Matrix Spike (23I0940-MS1)

Prepared: 09/28/23 10:20 Analyzed: 09/28/23 17:28

QC Source Sample: GS-091823-23 (A3I1199-01)

EPA 6020B

Aluminum	2910	25.0	50.0	ug/L	1	2780	29.4	104	75-125%	---	---	
Antimony	30.4	0.500	1.00	ug/L	1	27.8	ND	109	75-125%	---	---	
Arsenic	58.8	0.500	1.00	ug/L	1	55.6	2.16	102	75-125%	---	---	
Barium	97.5	1.00	2.00	ug/L	1	55.6	40.1	103	75-125%	---	---	
Beryllium	29.0	0.100	0.200	ug/L	1	27.8	ND	105	75-125%	---	---	
Cadmium	57.3	0.100	0.200	ug/L	1	55.6	ND	103	75-125%	---	---	
Chromium	54.5	1.00	2.00	ug/L	1	55.6	ND	98	75-125%	---	---	
Copper	54.1	1.00	2.00	ug/L	1	55.6	ND	97	75-125%	---	---	B
Iron	22300	25.0	50.0	ug/L	1	2780	19300	108	75-125%	---	---	
Lead	57.6	0.110	0.200	ug/L	1	55.6	ND	104	75-125%	---	---	B
Manganese	1560	0.500	1.00	ug/L	1	55.6	1490	127	75-125%	---	---	Q-65
Mercury	1.07	0.0400	0.0800	ug/L	1	1.11	ND	97	75-125%	---	---	
Nickel	54.8	1.00	2.00	ug/L	1	55.6	ND	99	75-125%	---	---	
Selenium	28.3	0.500	1.00	ug/L	1	27.8	ND	102	75-125%	---	---	
Silver	29.5	0.100	0.200	ug/L	1	27.8	ND	106	75-125%	---	---	
Thallium	27.3	0.100	0.200	ug/L	1	27.8	ND	98	75-125%	---	---	
Vanadium	55.3	1.00	2.00	ug/L	1	55.6	ND	100	75-125%	---	---	
Zinc	58.2	2.00	4.00	ug/L	1	55.6	ND	105	75-125%	---	---	B

Matrix Spike Dup (23I0940-MSD1)

Prepared: 09/28/23 10:20 Analyzed: 09/28/23 17:33

QC Source Sample: GS-091823-23 (A3I1199-01)

EPA 6020B

Aluminum	2870	25.0	50.0	ug/L	1	2780	29.4	102	75-125%	1	20%	
Antimony	30.1	0.500	1.00	ug/L	1	27.8	ND	108	75-125%	1	20%	

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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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****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
Batch 23I0940 - EPA 3015A						Water						
Matrix Spike Dup (23I0940-MSD1)			Prepared: 09/28/23 10:20		Analyzed: 09/28/23 17:33							
QC Source Sample: GS-091823-23 (A3I1199-01)												
Arsenic	58.2	0.500	1.00	ug/L	1	55.6	2.16	101	75-125%	1	20%	
Barium	97.4	1.00	2.00	ug/L	1	55.6	40.1	103	75-125%	0.04	20%	
Beryllium	28.5	0.100	0.200	ug/L	1	27.8	ND	103	75-125%	2	20%	
Cadmium	57.1	0.100	0.200	ug/L	1	55.6	ND	103	75-125%	0.3	20%	
Chromium	54.8	1.00	2.00	ug/L	1	55.6	ND	99	75-125%	0.5	20%	
Copper	53.5	1.00	2.00	ug/L	1	55.6	ND	96	75-125%	1	20%	B
Iron	22300	25.0	50.0	ug/L	1	2780	19300	108	75-125%	0.04	20%	
Lead	57.3	0.110	0.200	ug/L	1	55.6	ND	103	75-125%	0.6	20%	B
Manganese	1550	0.500	1.00	ug/L	1	55.6	1490	100	75-125%	1	20%	
Mercury	1.11	0.0400	0.0800	ug/L	1	1.11	ND	100	75-125%	3	20%	
Nickel	55.7	1.00	2.00	ug/L	1	55.6	ND	100	75-125%	2	20%	
Selenium	27.5	0.500	1.00	ug/L	1	27.8	ND	99	75-125%	3	20%	
Silver	29.2	0.100	0.200	ug/L	1	27.8	ND	105	75-125%	1	20%	
Thallium	27.5	0.100	0.200	ug/L	1	27.8	ND	99	75-125%	0.8	20%	
Vanadium	55.0	1.00	2.00	ug/L	1	55.6	ND	99	75-125%	0.5	20%	
Zinc	60.1	2.00	4.00	ug/L	1	55.6	ND	108	75-125%	3	20%	B

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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503-718-2323
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6720 SW Macadam Ave. Suite 125
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Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A311199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Cyanide by Flow Analysis (Aqueous)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310817 - Lachat Micro Dist - aqueous						Water						
Blank (2310817-BLK1)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 15:58									
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (2310817-BS1)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 16:00									
EPA 335.4												
Total Cyanide	0.249	0.00500	0.00500	mg/L	1	0.250	---	100	90-110%	---	---	
Duplicate (2310817-DUP2)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 17:40									
QC Source Sample: Non-SDG (A311074-12RE1)												
Total Cyanide	2.60	0.0500	0.0500	mg/L	10	---	2.56	---	---	2	10%	Q-16
Matrix Spike (2310817-MS1)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 16:50									
QC Source Sample: GS-091823-23 (A311199-01)												
EPA 335.4												
Total Cyanide	0.298	0.00500	0.00500	mg/L	1	0.250	0.0383	104	90-110%	---	---	
Matrix Spike (2310817-MS3)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 17:42									
QC Source Sample: Non-SDG (A311074-12RE1)												
EPA 335.4												
Total Cyanide	2.75	0.0500	0.0500	mg/L	10	0.250	2.56	76	90-110%	---	---	Q-03, Q-16
Matrix Spike Dup (2310817-MSD1)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 16:52									
QC Source Sample: GS-091823-23 (A311199-01)												
EPA 335.4												
Total Cyanide	0.290	0.00500	0.00500	mg/L	1	0.250	0.0383	101	90-110%	3	10%	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Cyanide by Flow Analysis (Aqueous)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0989 - Lachat Micro Dist - aqueous						Water						
Blank (23I0989-BLK1)			Prepared: 09/29/23 11:44 Analyzed: 09/29/23 16:52									
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0989-BS1)			Prepared: 09/29/23 11:44 Analyzed: 09/29/23 16:54									
EPA 335.4												
Total Cyanide	0.241	0.00500	0.00500	mg/L	1	0.250	---	96	90-110%	---	---	
Matrix Spike (23I0989-MS1)			Prepared: 09/29/23 11:44 Analyzed: 09/29/23 17:00									
QC Source Sample: GS-091823-23 (A3I1199-01RE1)												
EPA 335.4												
Total Cyanide	0.282	0.00500	0.00500	mg/L	1	0.250	0.0271	102	90-110%	---	---	
Matrix Spike Dup (23I0989-MSD1)			Prepared: 09/29/23 11:44 Analyzed: 09/29/23 17:02									
QC Source Sample: GS-091823-23 (A3I1199-01RE1)												
EPA 335.4												
Total Cyanide	0.273	0.00500	0.00500	mg/L	1	0.250	0.0271	98	90-110%	3	10%	

Apex Laboratories

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ANALYTICAL REPORT

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Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

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
Batch 23I0791 - Method Prep: Aq						Water						
Blank (23I0791-BLK1)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:03									
<u>D6888-09</u>												
Available Cyanide	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23I0791-BS1)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:05									
<u>D6888-09</u>												
Available Cyanide	0.0283	0.00100	0.00200	mg/L	1	0.0250	---	113	90-117%	---	---	
Matrix Spike (23I0791-MS1)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:31									
<u>QC Source Sample: GS-091823-23 (A3I1199-01)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0253	0.00101	0.00201	mg/L	1	0.0251	ND	101	82-130%	---	---	
Matrix Spike (23I0791-MS2)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:55									
<u>QC Source Sample: Non-SDG (A3I1285-02)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0200	0.00101	0.00201	mg/L	1	0.0251	ND	80	82-130%	---	---	Q-02
Matrix Spike Dup (23I0791-MSD1)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:32									
<u>QC Source Sample: GS-091823-23 (A3I1199-01)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0259	0.00101	0.00201	mg/L	1	0.0251	ND	103	82-130%	2	11%	
Matrix Spike Dup (23I0791-MSD2)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:56									
<u>QC Source Sample: Non-SDG (A3I1285-02)</u>												
Available Cyanide	0.0195	0.00101	0.00201	mg/L	1	0.0251	ND	78	82-130%	2	11%	Q-02

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

QUALITY CONTROL (QC) SAMPLE RESULTS

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0927 - Microdiffusion						Water						
Blank (23I0927-BLK1)			Prepared: 09/28/23 09:24		Analyzed: 09/28/23 15:50							
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0927-BS1)			Prepared: 09/28/23 09:24		Analyzed: 09/28/23 15:50							
<u>D4282-02</u>												
Free Cyanide	0.0625	0.00250	0.00500	mg/L	1	0.0667	---	94	74-120%	---	---	
LCS Dup (23I0927-BSD1)			Prepared: 09/28/23 09:24		Analyzed: 09/28/23 15:56							
<u>D4282-02</u>												
Free Cyanide	0.0642	0.00250	0.00500	mg/L	1	0.0667	---	96	74-120%	3	20%	
Matrix Spike (23I0927-MS1)			Prepared: 09/28/23 09:24		Analyzed: 09/28/23 16:01							
<u>QC Source Sample: GS-091823-23 (A3I1199-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0627	0.00250	0.00500	mg/L	1	0.0667	ND	94	74-120%	---	---	
Matrix Spike Dup (23I0927-MSD1)			Prepared: 09/28/23 09:24		Analyzed: 09/28/23 16:02							
<u>QC Source Sample: GS-091823-23 (A3I1199-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0722	0.00250	0.00500	mg/L	1	0.0667	ND	108	74-120%	14	20%	

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****QUALITY CONTROL (QC) SAMPLE RESULTS****Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0987 - Microdiffusion						Water						
Blank (23I0987-BLK1)			Prepared: 09/29/23 08:43 Analyzed: 09/29/23 12:57									
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0987-BS1)			Prepared: 09/29/23 08:43 Analyzed: 09/29/23 12:57									
<u>D4282-02</u>												
Free Cyanide	0.0592	0.00250	0.00500	mg/L	1	0.0667	---	89	74-120%	---	---	
LCS Dup (23I0987-BSD1)			Prepared: 09/29/23 08:43 Analyzed: 09/29/23 12:58									
<u>D4282-02</u>												
Free Cyanide	0.0591	0.00250	0.00500	mg/L	1	0.0667	---	89	74-120%	0.07	20%	
Duplicate (23I0987-DUP1)			Prepared: 09/29/23 08:43 Analyzed: 09/29/23 13:04									
<u>QC Source Sample: Non-SDG (A3I1394-01)</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	ND	---	---	---	20%	
Matrix Spike (23I0987-MS1)			Prepared: 09/29/23 08:43 Analyzed: 09/29/23 13:04									
<u>QC Source Sample: Non-SDG (A3I1394-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0599	0.00250	0.00500	mg/L	1	0.0667	ND	90	74-120%	---	---	

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Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646****SAMPLE PREPARATION INFORMATION****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23J0023							
A3I1199-01	WG	NWTPH-Dx	09/18/23 11:25	10/02/23 10:54	1050mL/5mL	1000mL/5mL	0.95
A3I1199-02	WG	NWTPH-Dx	09/18/23 13:55	10/02/23 10:54	1050mL/5mL	1000mL/5mL	0.95
A3I1199-03	WG	NWTPH-Dx	09/18/23 14:05	10/02/23 10:54	1060mL/5mL	1000mL/5mL	0.94

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

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0970							
A3I1199-01	WG	NWTPH-Gx (MS)	09/18/23 11:25	09/28/23 17:23	5mL/5mL	5mL/5mL	1.00
A3I1199-02	WG	NWTPH-Gx (MS)	09/18/23 13:55	09/28/23 17:23	5mL/5mL	5mL/5mL	1.00
A3I1199-03	WG	NWTPH-Gx (MS)	09/18/23 14:05	09/28/23 17:23	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0970							
A3I1199-01	WG	EPA 8260D	09/18/23 11:25	09/28/23 17:23	5mL/5mL	5mL/5mL	1.00
A3I1199-02	WG	EPA 8260D	09/18/23 13:55	09/28/23 17:23	5mL/5mL	5mL/5mL	1.00
A3I1199-03	WG	EPA 8260D	09/18/23 14:05	09/28/23 17:23	5mL/5mL	5mL/5mL	1.00
A3I1199-04	W	EPA 8260D	09/18/23 16:00	09/28/23 17:23	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0619							
A3I1199-01	WG	EPA 8270E LVI	09/18/23 11:25	09/20/23 09:31	105.9mL/5mL	125mL/5mL	1.18
A3I1199-02	WG	EPA 8270E LVI	09/18/23 13:55	09/20/23 09:31	106.36mL/5mL	125mL/5mL	1.18
A3I1199-02RE1	WG	EPA 8270E LVI	09/18/23 13:55	09/20/23 09:31	106.36mL/5mL	125mL/5mL	1.18
A3I1199-03	WG	EPA 8270E LVI	09/18/23 14:05	09/20/23 09:31	105.88mL/5mL	125mL/5mL	1.18
A3I1199-03RE1	WG	EPA 8270E LVI	09/18/23 14:05	09/20/23 09:31	105.88mL/5mL	125mL/5mL	1.18

Total Metals by EPA 6020B (ICPMS)

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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001F**Project Manager: **John Renda****Report ID:****A3I1199 - 12 05 23 0646**

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23I0940</u>							
A3I1199-01	WG	EPA 6020B	09/18/23 11:25	09/28/23 10:20	45mL/50mL	45mL/50mL	1.00
A3I1199-02	WG	EPA 6020B	09/18/23 13:55	09/28/23 10:20	45mL/50mL	45mL/50mL	1.00
A3I1199-02RE1	WG	EPA 6020B	09/18/23 13:55	09/28/23 10:20	45mL/50mL	45mL/50mL	1.00
A3I1199-03	WG	EPA 6020B	09/18/23 14:05	09/28/23 10:20	45mL/50mL	45mL/50mL	1.00
A3I1199-03RE1	WG	EPA 6020B	09/18/23 14:05	09/28/23 10:20	45mL/50mL	45mL/50mL	1.00

Total Cyanide by Flow Analysis (Aqueous)

Prep: Lachat Micro Dist - aqueous

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23I0817</u>							
A3I1199-02	WG	EPA 335.4	09/18/23 13:55	09/26/23 08:54	6mL/6mL	6mL/6mL	1.00
A3I1199-03	WG	EPA 335.4	09/18/23 14:05	09/26/23 08:54	6mL/6mL	6mL/6mL	1.00
<u>Batch: 23I0989</u>							
A3I1199-01RE1	WG	EPA 335.4	09/18/23 11:25	09/29/23 11:44	6mL/6mL	6mL/6mL	1.00

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23I0791</u>							
A3I1199-01	WG	D6888-09	09/18/23 11:25	09/25/23 11:23	5mL/5mL	5mL/5mL	1.00
A3I1199-02	WG	D6888-09	09/18/23 13:55	09/25/23 11:23	5mL/5mL	5mL/5mL	1.00
A3I1199-03	WG	D6888-09	09/18/23 14:05	09/25/23 11:23	5mL/5mL	5mL/5mL	1.00

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Prep: Microdiffusion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23I0927</u>							
A3I1199-01	WG	D4282-02	09/18/23 11:25	09/28/23 09:24	3mL/3mL	3mL/3mL	1.00
A3I1199-03	WG	D4282-02	09/18/23 14:05	09/28/23 09:24	3mL/3mL	3mL/3mL	1.00
<u>Batch: 23I0987</u>							
A3I1199-02	WG	D4282-02	09/18/23 13:55	09/29/23 08:43	3mL/3mL	3mL/3mL	1.00

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503-718-2323
ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon**

Project Number: **000029-02.84 T-01.001F**

Project Manager: **John Renda**

Report ID:

A3I1199 - 12 05 23 0646

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.)
- E** Estimated Value. The result is above the calibration range of the instrument.
- F-12** The result for this hydrocarbon range is primarily due to the presence of individual analyte peaks in the quantitation range. No fuel pattern detected.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- 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.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-02** Spike recovery is outside of established control limits due to matrix interference.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-65** Spike recovery is estimated due to the high analyte concentration of the source sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- T-02** This Batch QC sample was analyzed outside of the method specified 12 hour analysis window. Results are estimated.

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Project Manager: **John Renda**

Report ID:

A3I1199 - 12 05 23 0646

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'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

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).

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REPORTING NOTES AND CONVENTIONS (Cont.):

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.

-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, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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Project Manager: **John Renda**

Report ID:

A3I1199 - 12 05 23 0646

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

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

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.

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Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A311199 - 12 05 23 0646

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

CHAIN OF CUSTODY

Lab # A311199 QOC 1 of 1

Company: Anchor QEA	Project Mgr: John Renda	Project Name: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon	Project #: 000029-02.84 T-01.001F																			
Address: 6720 S. Macadam Ave #300, Portland, OR	Phone: 503-670-1108	Email: jrenda@anchorqea.com	PO #																			
Sampled by: Casey Montgomery	ANALYSIS REQUEST																					
Site Location:	TCLP Metals (8)																					
State: <u>OR</u>	TCLP DISS.																					
County: <u>Mult.</u>	TCLP																					
SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-GX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	TOTAL DISS.	TOTAL	Total, Avail./Free	Hold Sample	Frozen Archive
GS-091823-23	9-18-23	1125	WG	36		X	X			X	X								Total	X		
GS-091823-24		1355				X	X			X	X								Total	X		
GS-091823-25		1405				X	X			X	X								Total	X		
TB-091823		1600	W								X											
SPECIAL INSTRUCTIONS: GS-091823-23 has extra volume for MS/MSD																						
Standard Turn Around Time (TAT) = 10 Business Days																						
TAT Requested (circle) 1 Day 2 Day 3 Day 5 Day Standard Other:																						
SAMPLES ARE HELD FOR 30 DAYS																						
RELINQUISHED BY: Signature: <u>[Signature]</u> Date: <u>9-19-23</u>	RECEIVED BY: Signature: <u>[Signature]</u> Date: <u>9/19/23</u>																					
Printed Name: <u>Casey Montgomery</u> Time: <u>09:53</u>	Printed Name: <u>R. K. Montgomery</u> Time: <u>09:53</u>																					
Company: <u>Anchor QEA</u>	Company: <u>APEX</u>																					

Form V-002 R-00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. 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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1199 - 12 05 23 0646

APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A3 I1199Project/Project #: Gasco-TCE Only Mon. Wells 3Q 2023 Perf. Mon. Monitoring
000029-02.84 T-01.001F

Delivery Info:

Date/time received: 9/19/23 @ 953 By: RKDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 9/19/23 @ 1033 By: JSChain 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>3.7</u>	<u>3.4</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>					
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>					
Condition (In/Out):	<u>In</u>	<u>In</u>					

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 9/19/23 @ 1100 By: JSAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments:COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: 125 mL Ambers provided, but no analyses requested. ask for JS 9/19/23Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐ Strip ID: A23A348 ☒

Comments:

Additional information: TB # 3379

Labeled by:

JS

Witness:

JS

Cooler Inspected by:

JS

Form Y-003 R-01

Apex Laboratories

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Darwin Thomas, Business Development Director