



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: A311334 - 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 A311334, which was received by the laboratory on 9/22/2023 at 8:15:00AM.

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

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Cooler#1 0.4 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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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.



Apex Laboratories

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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:

A3I1334 - 12 05 23 0706

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-092123-31	A3I1334-01	WG	09/21/23 10:35	09/22/23 08:15
GS-092123-32	A3I1334-02	WG	09/21/23 11:55	09/22/23 08:15
GS-092123-33	A3I1334-03	WG	09/21/23 13:50	09/22/23 08:15
TB-092123	A3I1334-04	W	09/21/23 16:00	09/22/23 08:15

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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:****A3I1334 - 12 05 23 0706****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-092123-31 (A3I1334-01)		Matrix: WG			Batch: 23J0096			
Diesel	ND	96.2	192	ug/L	1	10/05/23 12:34	NWTPH-Dx	
Oil	ND	192	385	ug/L	1	10/05/23 12:34	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 87 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/05/23 12:34</i>	<i>NWTPH-Dx</i>	
GS-092123-32 (A3I1334-02)		Matrix: WG			Batch: 23J0096			
Diesel	ND	99.0	198	ug/L	1	10/05/23 12:55	NWTPH-Dx	
Oil	ND	198	396	ug/L	1	10/05/23 12:55	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/05/23 12:55</i>	<i>NWTPH-Dx</i>	
GS-092123-33 (A3I1334-03)		Matrix: WG			Batch: 23J0096			
Diesel	2260	98.0	196	ug/L	1	10/05/23 13:16	NWTPH-Dx	F-13
Oil	ND	196	392	ug/L	1	10/05/23 13:16	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/05/23 13:16</i>	<i>NWTPH-Dx</i>	

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Project Manager: John Renda

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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-092123-31 (A3I1334-01)		Matrix: WG			Batch: 23I1030			
Gasoline Range Organics	ND	50.0	100	ug/L	1	10/02/23 17:27	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 104 %	Limits: 50-150 %	1	10/02/23 17:27	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	10/02/23 17:27	NWTPH-Gx (MS)		
GS-092123-32 (A3I1334-02)		Matrix: WG			Batch: 23I1030			
Gasoline Range Organics	70.8	50.0	100	ug/L	1	10/02/23 17:55	NWTPH-Gx (MS)	J
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 104 %	Limits: 50-150 %	1	10/02/23 17:55	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	10/02/23 17:55	NWTPH-Gx (MS)		
GS-092123-33 (A3I1334-03)		Matrix: WG			Batch: 23I1030			
Gasoline Range Organics	2890	50.0	100	ug/L	1	10/02/23 18:23	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 110 %	Limits: 50-150 %	1	10/02/23 18:23	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	10/02/23 18:23	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-092123-31 (A3I1334-01)		Matrix: WG			Batch: 23I1030			
Acetone	ND	10.0	20.0	ug/L	1	10/02/23 17:27	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	10/02/23 17:27	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/02/23 17:27	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/02/23 17:27	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/02/23 17:27	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/02/23 17:27	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	

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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:****A3I1334 - 12 05 23 0706****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-31 (A3I1334-01)		Matrix: WG			Batch: 23I1030			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	10/02/23 17:27	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/02/23 17:27	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/02/23 17:27	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/02/23 17:27	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	10/02/23 17:27	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/02/23 17:27	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/02/23 17:27	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	10/02/23 17:27	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/02/23 17:27	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/02/23 17:27	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-092123-31 (A3I1334-01)		Matrix: WG			Batch: 23I1030			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %	Limits: 80-120 %	1	10/02/23 17:27	EPA 8260D		
Toluene-d8 (Surr)		102 %	80-120 %	1	10/02/23 17:27	EPA 8260D		
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1	10/02/23 17:27	EPA 8260D		
GS-092123-32 (A3I1334-02)		Matrix: WG			Batch: 23I1030			
Acetone	ND	10.0	20.0	ug/L	1	10/02/23 17:55	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	10/02/23 17:55	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/02/23 17:55	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/02/23 17:55	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/02/23 17:55	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Chlorobenzene	3.73	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/02/23 17:55	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,2-Dichlorobenzene	3.88	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	

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Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-32 (A3I1334-02)		Matrix: WG			Batch: 23I1030			
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	
cis-1,2-Dichloroethene	0.780	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	10/02/23 17:55	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/02/23 17:55	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/02/23 17:55	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	10/02/23 17:55	EPA 8260D	
Methyl tert-butyl ether (MTBE)	9.34	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	10/02/23 17:55	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/02/23 17:55	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	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:****A3I1334 - 12 05 23 0706**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-32 (A3I1334-02)		Matrix: WG			Batch: 23I1030			
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	10/02/23 17:55	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/02/23 17:55	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/02/23 17:55	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/02/23 17:55</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/02/23 17:55</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/02/23 17:55</i>	<i>EPA 8260D</i>	
GS-092123-33 (A3I1334-03)		Matrix: WG			Batch: 23I1030			
Acetone	ND	10.0	20.0	ug/L	1	10/02/23 18:23	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Benzene	0.150	0.100	0.200	ug/L	1	10/02/23 18:23	EPA 8260D	J
Bromobenzene	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/02/23 18:23	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/02/23 18:23	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/02/23 18:23	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/02/23 18:23	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/02/23 18:23	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:****A3I1334 - 12 05 23 0706**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-33 (A3I1334-03)		Matrix: WG			Batch: 23I1030			
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Ethylbenzene	0.430	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	J
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	10/02/23 18:23	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/02/23 18:23	EPA 8260D	
Isopropylbenzene	9.67	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/02/23 18:23	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/02/23 18:23	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	10/02/23 18:23	EPA 8260D	
n-Propylbenzene	3.44	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	

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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:

A3I1334 - 12 05 23 0706

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-33 (A3I1334-03)		Matrix: WG			Batch: 23I1030			
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/02/23 18:23	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	10/02/23 18:23	EPA 8260D	
m,p-Xylene	0.790	0.500	1.00	ug/L	1	10/02/23 18:23	EPA 8260D	J
o-Xylene	0.710	0.250	0.500	ug/L	1	10/02/23 18:23	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %	1	10/02/23 18:23	EPA 8260D	
Toluene-d8 (Surr)		100 %		80-120 %	1	10/02/23 18:23	EPA 8260D	
4-Bromofluorobenzene (Surr)		99 %		80-120 %	1	10/02/23 18:23	EPA 8260D	
TB-092123 (A3I1334-04)		Matrix: W			Batch: 23I1030			V-01
Acetone	ND	10.0	20.0	ug/L	1	10/02/23 12:49	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	10/02/23 12:49	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/02/23 12:49	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/02/23 12:49	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/02/23 12:49	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/02/23 12:49	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**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:****A3I1334 - 12 05 23 0706**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-092123 (A3I1334-04)		Matrix: W			Batch: 23I1030		V-01	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	10/02/23 12:49	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/02/23 12:49	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/02/23 12:49	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	10/02/23 12:49	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	10/02/23 12:49	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/02/23 12:49	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:

A3I1334 - 12 05 23 0706

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-092123 (A3I1334-04)		Matrix: W			Batch: 23I1030		V-01	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/02/23 12:49	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	10/02/23 12:49	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/02/23 12:49	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/02/23 12:49	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/02/23 12:49</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/02/23 12:49</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/02/23 12:49</i>	<i>EPA 8260D</i>	

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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:

A3I1334 - 12 05 23 0706

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-092123-31 (A3I1334-01)		Matrix: WG			Batch: 23I0794			
Acenaphthene	0.0288	0.0221	0.0443	ug/L	1	09/26/23 00:02	EPA 8270E LVI	J
Acenaphthylene	ND	0.0221	0.0443	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Anthracene	ND	0.0221	0.0443	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Benz(a)anthracene	ND	0.0111	0.0221	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.0111	0.0221	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.0111	0.0221	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0111	0.0221	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0221	0.0443	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Chrysene	ND	0.0111	0.0221	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0111	0.0221	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Fluoranthene	0.0625	0.0221	0.0443	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Fluorene	ND	0.0221	0.0443	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0111	0.0221	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0443	0.0885	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0443	0.0885	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Naphthalene	ND	0.0443	0.0885	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Phenanthrene	0.127	0.0443	0.0885	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Pyrene	0.0570	0.0221	0.0443	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Dibenzofuran	ND	0.0221	0.0443	ug/L	1	09/26/23 00:02	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 91 %		Limits: 78-134 %	1	09/26/23 00:02	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		115 %		80-132 %	1	09/26/23 00:02	EPA 8270E LVI	
GS-092123-32 (A3I1334-02)		Matrix: WG			Batch: 23I0794			
Acenaphthene	ND	0.0193	0.0385	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Acenaphthylene	ND	0.0193	0.0385	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Anthracene	ND	0.0193	0.0385	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00963	0.0193	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00963	0.0193	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.00963	0.0193	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00963	0.0193	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0193	0.0385	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Chrysene	ND	0.00963	0.0193	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00963	0.0193	ug/L	1	09/26/23 00:34	EPA 8270E LVI	

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ANALYTICAL REPORT

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Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1334 - 12 05 23 0706

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-092123-32 (A3I1334-02)		Matrix: WG			Batch: 23I0794			
Fluoranthene	ND	0.0193	0.0385	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Fluorene	ND	0.0193	0.0385	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00963	0.0193	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0385	0.0770	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0385	0.0770	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Naphthalene	ND	0.0770	0.0770	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Phenanthrene	ND	0.0385	0.0770	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Pyrene	ND	0.0193	0.0385	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Dibenzofuran	ND	0.0193	0.0385	ug/L	1	09/26/23 00:34	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 92 %		Limits: 78-134 %	1	09/26/23 00:34	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %	1	09/26/23 00:34	EPA 8270E LVI	
GS-092123-33 (A3I1334-03)		Matrix: WG			Batch: 23I0794			
Acenaphthene	37.6	2.24	4.48	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Acenaphthylene	ND	2.24	4.48	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Anthracene	ND	2.24	4.48	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Benz(a)anthracene	ND	1.12	2.24	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Benzo(a)pyrene	ND	1.12	2.24	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	1.12	2.24	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	1.12	2.24	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	2.24	4.48	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Chrysene	ND	1.12	2.24	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	1.12	2.24	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Fluoranthene	ND	2.24	4.48	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Fluorene	6.16	2.24	4.48	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	1.12	2.24	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
1-Methylnaphthalene	33.5	4.48	8.95	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
2-Methylnaphthalene	ND	4.48	8.95	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Naphthalene	ND	4.48	8.95	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Phenanthrene	ND	4.48	8.95	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Pyrene	ND	2.24	4.48	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Dibenzofuran	ND	2.24	4.48	ug/L	100	09/26/23 01:07	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	09/26/23 01:07	EPA 8270E LVI	S-01

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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:

A3I1334 - 12 05 23 0706

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-092123-33 (A3I1334-03)				Matrix: WG		Batch: 23I0794		
Surrogate: Benzo(a)pyrene-d12 (Surr)		Recovery: 124 %	Limits: 80-132 %	100	09/26/23 01:07	EPA 8270E LVI	S-05	

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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:****A3I1334 - 12 05 23 0706**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-31 (A3I1334-01) Matrix: WG								
Batch: 23J0020								
Aluminum	416	25.0	50.0	ug/L	1	10/02/23 20:29	EPA 6020B	Q-42
Antimony	ND	0.500	1.00	ug/L	1	10/02/23 20:29	EPA 6020B	
Arsenic	8.05	0.500	1.00	ug/L	1	10/02/23 20:29	EPA 6020B	
Barium	43.9	1.00	2.00	ug/L	1	10/02/23 20:29	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	10/02/23 20:29	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	10/02/23 20:29	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	10/02/23 20:29	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	10/02/23 20:29	EPA 6020B	
Iron	27700	25.0	50.0	ug/L	1	10/02/23 20:29	EPA 6020B	
Lead	0.366	0.110	0.200	ug/L	1	10/02/23 20:29	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	10/02/23 20:29	EPA 6020B	
Nickel	2.18	1.00	2.00	ug/L	1	10/02/23 20:29	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	10/02/23 20:29	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	10/02/23 20:29	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	10/02/23 20:29	EPA 6020B	
Vanadium	1.01	1.00	2.00	ug/L	1	10/02/23 20:29	EPA 6020B	J
Zinc	12.4	2.00	4.00	ug/L	1	10/02/23 20:29	EPA 6020B	
GS-092123-31 (A3I1334-01RE1) Matrix: WG								
Batch: 23J0020								
Manganese	3000	5.00	10.0	ug/L	10	10/03/23 14:42	EPA 6020B	
GS-092123-32 (A3I1334-02) Matrix: WG								
Batch: 23J0020								
Aluminum	ND	25.0	50.0	ug/L	1	10/02/23 20:45	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	10/02/23 20:45	EPA 6020B	
Arsenic	0.659	0.500	1.00	ug/L	1	10/02/23 20:45	EPA 6020B	J
Barium	46.6	1.00	2.00	ug/L	1	10/02/23 20:45	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	10/02/23 20:45	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	10/02/23 20:45	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	10/02/23 20:45	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	10/02/23 20:45	EPA 6020B	
Iron	17500	25.0	50.0	ug/L	1	10/02/23 20:45	EPA 6020B	

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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:****A3I1334 - 12 05 23 0706**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-32 (A3I1334-02)		Matrix: WG						
Lead	ND	0.110	0.200	ug/L	1	10/02/23 20:45	EPA 6020B	
Manganese	2060	0.500	1.00	ug/L	1	10/02/23 20:45	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	10/02/23 20:45	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	10/02/23 20:45	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	10/02/23 20:45	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	10/02/23 20:45	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	10/02/23 20:45	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	10/02/23 20:45	EPA 6020B	
Zinc	ND	2.00	4.00	ug/L	1	10/02/23 20:45	EPA 6020B	
GS-092123-33 (A3I1334-03)		Matrix: WG						
Batch: 23J0020								
Aluminum	32.3	25.0	50.0	ug/L	1	10/02/23 20:50	EPA 6020B	J
Antimony	ND	0.500	1.00	ug/L	1	10/02/23 20:50	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	10/02/23 20:50	EPA 6020B	
Barium	36.6	1.00	2.00	ug/L	1	10/02/23 20:50	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	10/02/23 20:50	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	10/02/23 20:50	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	10/02/23 20:50	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	10/02/23 20:50	EPA 6020B	
Iron	20300	25.0	50.0	ug/L	1	10/02/23 20:50	EPA 6020B	
Lead	0.112	0.110	0.200	ug/L	1	10/02/23 20:50	EPA 6020B	J
Manganese	2480	0.500	1.00	ug/L	1	10/02/23 20:50	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	10/02/23 20:50	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	10/02/23 20:50	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	10/02/23 20:50	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	10/02/23 20:50	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	10/02/23 20:50	EPA 6020B	
Vanadium	1.57	1.00	2.00	ug/L	1	10/02/23 20:50	EPA 6020B	J
Zinc	3.39	2.00	4.00	ug/L	1	10/02/23 20:50	EPA 6020B	J

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Project Number: 000029-02.84 T-01.001F

Project Manager: John Renda

Report ID:

A3I1334 - 12 05 23 0706

ANALYTICAL SAMPLE RESULTS

Total Cyanide by Flow Analysis (Aqueous)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-31 (A3I1334-01)				Matrix: WG		Batch: 23I0845		
Total Cyanide	ND	0.00500	0.00500	mg/L	1	09/26/23 17:20	EPA 335.4	
GS-092123-32 (A3I1334-02)				Matrix: WG		Batch: 23I0845		
Total Cyanide	0.00510	0.00500	0.00500	mg/L	1	09/26/23 17:28	EPA 335.4	
GS-092123-33 (A3I1334-03)				Matrix: WG		Batch: 23I0845		
Total Cyanide	0.163	0.00500	0.00500	mg/L	1	09/26/23 17:30	EPA 335.4	

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Project Manager: **John Renda**

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ANALYTICAL SAMPLE RESULTS

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-31 (A3I1334-01)				Matrix: WG		Batch: 23I0791		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/25/23 16:01	D6888-09	
GS-092123-32 (A3I1334-02)				Matrix: WG		Batch: 23I0791		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/25/23 16:02	D6888-09	
GS-092123-33 (A3I1334-03)				Matrix: WG		Batch: 23J0026		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	10/02/23 13:50	D6888-09	

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Report ID:

A3I1334 - 12 05 23 0706

ANALYTICAL SAMPLE RESULTS

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092123-31 (A3I1334-01)				Matrix: WG		Batch: 23I0927		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/28/23 16:14	D4282-02	
GS-092123-32 (A3I1334-02)				Matrix: WG		Batch: 23I0987		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/29/23 12:59	D4282-02	
GS-092123-33 (A3I1334-03)				Matrix: WG		Batch: 23I0987		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/29/23 12:59	D4282-02	

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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:

A3I1334 - 12 05 23 0706

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 23J0096 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (23J0096-BLK1)			Prepared: 10/04/23 07:17 Analyzed: 10/05/23 11:32									
NWTPH-Dx												
Diesel	ND	100	200	ug/L	1	---	---	---	---	---	---	
Oil	ND	200	400	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x						
LCS (23J0096-BS1)			Prepared: 10/04/23 07:17 Analyzed: 10/05/23 11:53									
NWTPH-Dx												
Diesel	736	100	200	ug/L	1	1250	---	59	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (23J0096-BSD1)			Prepared: 10/04/23 07:17 Analyzed: 10/05/23 12:13									
NWTPH-Dx												
Diesel	728	100	200	ug/L	1	1250	---	58	36-132%	1	30%	
Surr: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						

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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:****A3I1334 - 12 05 23 0706****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 23I1030 - EPA 5030C						Water						
Blank (23I1030-BLK1)			Prepared: 10/02/23 09:00		Analyzed: 10/02/23 12:22							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	102 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			106 %		50-150 %			"				
LCS (23I1030-BS2)			Prepared: 10/02/23 09:00		Analyzed: 10/02/23 11:54							
NWTPH-Gx (MS)												
Gasoline Range Organics	518	50.0	100	ug/L	1	500	---	104	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	101 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			104 %		50-150 %			"				
Duplicate (23I1030-DUP1)			Prepared: 10/02/23 09:00		Analyzed: 10/03/23 00:25							T-02
QC Source Sample: Non-SDG (A3J0800-03)												
Gasoline Range Organics	16900	2500	5000	ug/L	50	---	12300	---	---	31	30%	Q-17
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	106 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			105 %		50-150 %			"				

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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:****A3I1334 - 12 05 23 0706****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 23I1030 - EPA 5030C						Water						
Blank (23I1030-BLK1)			Prepared: 10/02/23 09:00		Analyzed: 10/02/23 12:22							
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	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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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:

A3I1334 - 12 05 23 0706

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 23I1030 - EPA 5030C						Water						
Blank (23I1030-BLK1)						Prepared: 10/02/23 09:00 Analyzed: 10/02/23 12:22						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.100	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: 102 % Limits: 80-120 % Dilution: 1x												

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ANALYTICAL REPORT

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503-718-2323

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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:

A3I1334 - 12 05 23 0706

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 23I1030 - EPA 5030C						Water						
Blank (23I1030-BLK1)			Prepared: 10/02/23 09:00		Analyzed: 10/02/23 12:22							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						
LCS (23I1030-BS1)			Prepared: 10/02/23 09:00		Analyzed: 10/02/23 10:58							
EPA 8260D												
Acetone	36.4	10.0	20.0	ug/L	1	40.0	---	91	80-120%	---	---	
Acrylonitrile	19.4	1.00	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
Benzene	20.2	0.100	0.200	ug/L	1	20.0	---	101	80-120%	---	---	
Bromobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Bromochloromethane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Bromodichloromethane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromoform	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Bromomethane	18.2	5.00	5.00	ug/L	1	20.0	---	91	80-120%	---	---	
2-Butanone (MEK)	39.6	5.00	10.0	ug/L	1	40.0	---	99	80-120%	---	---	
n-Butylbenzene	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
sec-Butylbenzene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
tert-Butylbenzene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Carbon disulfide	22.6	5.00	10.0	ug/L	1	20.0	---	113	80-120%	---	---	
Carbon tetrachloride	23.2	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
Chlorobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Chloroethane	21.8	5.00	5.00	ug/L	1	20.0	---	109	80-120%	---	---	
Chloroform	20.1	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Chloromethane	18.3	2.50	5.00	ug/L	1	20.0	---	92	80-120%	---	---	
2-Chlorotoluene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
4-Chlorotoluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromochloromethane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dibromo-3-chloropropane	19.2	2.50	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Dibromomethane	20.1	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2-Dichlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
1,3-Dichlorobenzene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
1,4-Dichlorobenzene	18.4	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Dichlorodifluoromethane	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,1-Dichloroethane	20.0	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2311030 - EPA 5030C						Water						
LCS (2311030-BS1)						Prepared: 10/02/23 09:00 Analyzed: 10/02/23 10:58						
1,2-Dichloroethane (EDC)	20.1	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,1-Dichloroethene	21.5	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
cis-1,2-Dichloroethene	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
trans-1,2-Dichloroethene	19.5	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloropropane	19.5	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,3-Dichloropropane	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
2,2-Dichloropropane	22.9	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
1,1-Dichloropropene	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
cis-1,3-Dichloropropene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,3-Dichloropropene	20.5	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Ethylbenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Hexachlorobutadiene	19.6	2.50	5.00	ug/L	1	20.0	---	98	80-120%	---	---	
2-Hexanone	35.4	5.00	10.0	ug/L	1	40.0	---	89	80-120%	---	---	
Isopropylbenzene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
4-Isopropyltoluene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Methylene chloride	20.5	5.00	10.0	ug/L	1	20.0	---	103	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	39.2	5.00	10.0	ug/L	1	40.0	---	98	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Naphthalene	19.0	2.50	5.00	ug/L	1	20.0	---	95	80-120%	---	---	
n-Propylbenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Styrene	19.4	0.500	1.00	ug/L	1	20.0	---	97	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	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Tetrachloroethene (PCE)	19.9	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
Toluene	18.3	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,2,3-Trichlorobenzene	21.2	1.00	2.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,4-Trichlorobenzene	20.2	1.00	2.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,1,1-Trichloroethane	22.1	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
1,1,2-Trichloroethane	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Trichloroethene (TCE)	19.1	0.200	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
Trichlorofluoromethane	22.6	1.00	2.00	ug/L	1	20.0	---	113	80-120%	---	---	
1,2,3-Trichloropropane	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2,4-Trimethylbenzene	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
1,3,5-Trimethylbenzene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	

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Darwin Thomas, Business Development Director

Page 27 of 51



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:

A3I1334 - 12 05 23 0706

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 23I1030 - EPA 5030C						Water						
LCS (23I1030-BS1)						Prepared: 10/02/23 09:00 Analyzed: 10/02/23 10:58						
Vinyl chloride	19.6	0.100	0.200	ug/L	1	20.0	---	98	80-120%	---	---	
m,p-Xylene	39.7	0.500	1.00	ug/L	1	40.0	---	99	80-120%	---	---	
o-Xylene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)				Recovery: 99 %	Limits: 80-120 %	Dilution: 1x						
Toluene-d8 (Surr)				100 %	80-120 %	"						
4-Bromofluorobenzene (Surr)				98 %	80-120 %	"						

Duplicate (23I1030-DUP1)

Prepared: 10/02/23 09:00 Analyzed: 10/03/23 00:25

T-02

QC Source Sample: Non-SDG (A3J0800-03)

Acetone	ND	500	1000	ug/L	50	---	ND	---	---	---	30%
Acrylonitrile	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%
Benzene	110	5.00	10.0	ug/L	50	---	106	---	---	4	30%
Bromobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%
Bromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
Bromoform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
Bromomethane	ND	250	250	ug/L	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
Carbon disulfide	ND	250	500	ug/L	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%
Chloroethane	ND	250	250	ug/L	50	---	ND	---	---	---	30%
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
Chloromethane	ND	125	250	ug/L	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	125	250	ug/L	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%
Dibromomethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%

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Darwin Thomas, Business Development Director



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Project Manager: John Renda

Report ID:

A3I1334 - 12 05 23 0706

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 23I1030 - EPA 5030C						Water						
Duplicate (23I1030-DUP1)			Prepared: 10/02/23 09:00		Analyzed: 10/03/23 00:25		T-02					
QC Source Sample: Non-SDG (A3J0800-03)												
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Ethylbenzene	59.5	12.5	25.0	ug/L	50	---	49.5	---	---	18	30%	
Hexachlorobutadiene	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
2-Hexanone	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Methylene chloride	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Naphthalene	ND	250	250	ug/L	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	25.0	25.0	ug/L	50	---	ND	---	---	---	30%	
Styrene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
Toluene	637	25.0	50.0	ug/L	50	---	602	---	---	6	30%	
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	

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Project Manager: John Renda

Report ID:

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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 23I1030 - EPA 5030C												
Water												
Duplicate (23I1030-DUP1)												
Prepared: 10/02/23 09:00 Analyzed: 10/03/23 00:25												
QC Source Sample: Non-SDG (A3J0800-03)												
Trichloroethene (TCE)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	399	25.0	50.0	ug/L	50	---	258	---	---	43	30%	Q-17
1,3,5-Trimethylbenzene	90.5	25.0	50.0	ug/L	50	---	58.5	---	---	43	30%	Q-17
Vinyl chloride	ND	5.00	10.0	ug/L	50	---	ND	---	---	---	30%	
m,p-Xylene	698	25.0	50.0	ug/L	50	---	599	---	---	15	30%	
o-Xylene	347	12.5	25.0	ug/L	50	---	298	---	---	15	30%	
Surr: 1,4-Difluorobenzene (Surr)												
Recovery: 102 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr)												
100 % 80-120 % "												
4-Bromofluorobenzene (Surr)												
98 % 80-120 % "												

Matrix Spike (23I1030-MS1) Prepared: 10/02/23 09:00 Analyzed: 10/03/23 02:17 T-02

QC Source Sample: Non-SDG (A3I1517-07)

EPA 8260D

Acetone	38.8	10.0	20.0	ug/L	1	40.0	ND	97	39-160%	---	---
Acrylonitrile	21.4	1.00	2.00	ug/L	1	20.0	ND	107	63-135%	---	---
Benzene	23.1	0.100	0.200	ug/L	1	20.0	ND	115	79-120%	---	---
Bromobenzene	21.0	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---
Bromochloromethane	21.9	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	19.5	0.500	1.00	ug/L	1	20.0	ND	98	66-130%	---	---
Bromomethane	20.8	5.00	5.00	ug/L	1	20.0	ND	104	53-141%	---	---
2-Butanone (MEK)	41.5	5.00	10.0	ug/L	1	40.0	ND	104	56-143%	---	---
n-Butylbenzene	24.0	0.500	1.00	ug/L	1	20.0	ND	120	75-128%	---	---
sec-Butylbenzene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	77-126%	---	---
tert-Butylbenzene	23.7	0.500	1.00	ug/L	1	20.0	ND	119	78-124%	---	---
Carbon disulfide	25.3	5.00	10.0	ug/L	1	20.0	ND	127	64-133%	---	---
Carbon tetrachloride	25.5	0.500	1.00	ug/L	1	20.0	ND	128	72-136%	---	---
Chlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	ND	103	80-120%	---	---
Chloroethane	24.4	5.00	5.00	ug/L	1	20.0	ND	122	60-138%	---	---
Chloroform	22.0	0.500	1.00	ug/L	1	20.0	ND	110	79-124%	---	---
Chloromethane	22.9	2.50	5.00	ug/L	1	20.0	ND	114	50-139%	---	---

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Project Manager: John Renda

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A3I1334 - 12 05 23 0706

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 23I1030 - EPA 5030C						Water						
Matrix Spike (23I1030-MS1)			Prepared: 10/02/23 09:00		Analyzed: 10/03/23 02:17		T-02					
QC Source Sample: Non-SDG (A3I1517-07)												
2-Chlorotoluene	22.7	0.500	1.00	ug/L	1	20.0	ND	114	79-122%	---	---	
4-Chlorotoluene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	78-122%	---	---	
Dibromochloromethane	20.1	0.500	1.00	ug/L	1	20.0	ND	101	74-126%	---	---	
1,2-Dibromo-3-chloropropane	19.0	2.50	5.00	ug/L	1	20.0	ND	95	62-128%	---	---	
1,2-Dibromoethane (EDB)	21.8	0.250	0.500	ug/L	1	20.0	ND	109	77-121%	---	---	
Dibromomethane	21.0	0.500	1.00	ug/L	1	20.0	ND	105	79-123%	---	---	
1,2-Dichlorobenzene	21.7	0.250	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
1,3-Dichlorobenzene	22.7	0.250	0.500	ug/L	1	20.0	ND	114	80-120%	---	---	
1,4-Dichlorobenzene	19.7	0.250	0.500	ug/L	1	20.0	ND	98	79-120%	---	---	
Dichlorodifluoromethane	25.8	0.500	1.00	ug/L	1	20.0	ND	129	32-152%	---	---	
1,1-Dichloroethane	22.4	0.200	0.400	ug/L	1	20.0	ND	112	77-125%	---	---	
1,2-Dichloroethane (EDC)	21.5	0.200	0.400	ug/L	1	20.0	ND	108	73-128%	---	---	
1,1-Dichloroethene	25.1	0.200	0.400	ug/L	1	20.0	ND	125	71-131%	---	---	
cis-1,2-Dichloroethene	22.0	0.200	0.400	ug/L	1	20.0	ND	110	78-123%	---	---	
trans-1,2-Dichloroethene	22.3	0.200	0.400	ug/L	1	20.0	ND	112	75-124%	---	---	
1,2-Dichloropropane	21.5	0.250	0.500	ug/L	1	20.0	ND	107	78-122%	---	---	
1,3-Dichloropropane	22.1	0.500	1.00	ug/L	1	20.0	ND	111	80-120%	---	---	
2,2-Dichloropropane	19.0	0.500	1.00	ug/L	1	20.0	ND	95	60-139%	---	---	
1,1-Dichloropropene	25.0	0.500	1.00	ug/L	1	20.0	ND	125	79-125%	---	---	
cis-1,3-Dichloropropene	18.4	0.500	1.00	ug/L	1	20.0	ND	92	75-124%	---	---	
trans-1,3-Dichloropropene	20.0	0.500	1.00	ug/L	1	20.0	ND	100	73-127%	---	---	
Ethylbenzene	22.4	0.250	0.500	ug/L	1	20.0	ND	112	79-121%	---	---	
Hexachlorobutadiene	21.0	2.50	5.00	ug/L	1	20.0	ND	105	66-134%	---	---	
2-Hexanone	37.9	5.00	10.0	ug/L	1	40.0	ND	95	57-139%	---	---	
Isopropylbenzene	21.7	0.500	1.00	ug/L	1	20.0	ND	108	72-131%	---	---	
4-Isopropyltoluene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	77-127%	---	---	
Methylene chloride	20.9	5.00	10.0	ug/L	1	20.0	ND	105	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	41.7	5.00	10.0	ug/L	1	40.0	ND	104	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	23.4	0.500	1.00	ug/L	1	20.0	ND	117	71-124%	---	---	
Naphthalene	20.6	2.50	5.00	ug/L	1	20.0	ND	103	61-128%	---	---	
n-Propylbenzene	22.8	0.250	0.500	ug/L	1	20.0	ND	114	76-126%	---	---	
Styrene	20.5	0.500	1.00	ug/L	1	20.0	ND	103	78-123%	---	---	
1,1,1,2-Tetrachloroethane	22.7	0.200	0.400	ug/L	1	20.0	ND	114	78-124%	---	---	

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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 23I1030 - EPA 5030C						Water						
Matrix Spike (23I1030-MS1)			Prepared: 10/02/23 09:00		Analyzed: 10/03/23 02:17		T-02					
QC Source Sample: Non-SDG (A3I1517-07)												
1,1,2,2-Tetrachloroethane	21.2	0.250	0.500	ug/L	1	20.0	ND	106	71-121%	---	---	
Tetrachloroethene (PCE)	22.3	0.200	0.400	ug/L	1	20.0	ND	112	74-129%	---	---	
Toluene	20.4	0.500	1.00	ug/L	1	20.0	ND	102	80-121%	---	---	
1,2,3-Trichlorobenzene	22.4	1.00	2.00	ug/L	1	20.0	ND	112	69-129%	---	---	
1,2,4-Trichlorobenzene	21.9	1.00	2.00	ug/L	1	20.0	ND	109	69-130%	---	---	
1,1,1-Trichloroethane	24.5	0.200	0.400	ug/L	1	20.0	ND	122	74-131%	---	---	
1,1,2-Trichloroethane	21.8	0.250	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
Trichloroethene (TCE)	21.6	0.200	0.400	ug/L	1	20.0	ND	108	79-123%	---	---	
Trichlorofluoromethane	26.9	1.00	2.00	ug/L	1	20.0	ND	135	65-141%	---	---	
1,2,3-Trichloropropane	21.6	0.500	1.00	ug/L	1	20.0	ND	108	73-122%	---	---	
1,2,4-Trimethylbenzene	24.4	0.500	1.00	ug/L	1	20.0	ND	122	76-124%	---	---	
1,3,5-Trimethylbenzene	24.0	0.500	1.00	ug/L	1	20.0	ND	120	75-124%	---	---	
Vinyl chloride	23.8	0.100	0.200	ug/L	1	20.0	ND	119	58-137%	---	---	
m,p-Xylene	43.9	0.500	1.00	ug/L	1	40.0	ND	110	80-121%	---	---	
o-Xylene	20.9	0.250	0.500	ug/L	1	20.0	ND	105	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

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:

A3I1334 - 12 05 23 0706

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 23I0794 - EPA 3511 (Bottle Extraction)						Water						
Blank (23I0794-BLK1)			Prepared: 09/25/23 13:20		Analyzed: 09/25/23 16:59							
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: 90 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %		"						

LCS (23I0794-BS1)

Prepared: 09/25/23 13:20 Analyzed: 09/25/23 17:32

EPA 8270E LVI

Acenaphthene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	80-120%	---	---
Acenaphthylene	1.74	0.0160	0.0320	ug/L	1	1.60	---	109	80-124%	---	---
Anthracene	1.77	0.0160	0.0320	ug/L	1	1.60	---	111	80-123%	---	---
Benz(a)anthracene	1.85	0.00800	0.0160	ug/L	1	1.60	---	115	80-122%	---	---
Benzo(a)pyrene	1.85	0.00800	0.0160	ug/L	1	1.60	---	115	80-129%	---	---
Benzo(b+j)fluoranthene(s)	1.80	0.00800	0.0160	ug/L	1	1.60	---	112	80-124%	---	---
Benzo(k)fluoranthene	1.85	0.00800	0.0160	ug/L	1	1.60	---	116	80-125%	---	---
Benzo(g,h,i)perylene	1.73	0.0160	0.0320	ug/L	1	1.60	---	108	80-120%	---	---

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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:

A3I1334 - 12 05 23 0706

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 2310794 - EPA 3511 (Bottle Extraction)						Water						
LCS (2310794-BS1)						Prepared: 09/25/23 13:20 Analyzed: 09/25/23 17:32						
Chrysene	1.72	0.00800	0.0160	ug/L	1	1.60	---	108	80-120%	---	---	
Dibenz(a,h)anthracene	1.72	0.00800	0.0160	ug/L	1	1.60	---	108	80-120%	---	---	
Fluoranthene	1.80	0.0160	0.0320	ug/L	1	1.60	---	113	80-126%	---	---	
Fluorene	1.93	0.0160	0.0320	ug/L	1	1.60	---	120	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.75	0.00800	0.0160	ug/L	1	1.60	---	109	80-121%	---	---	
1-Methylnaphthalene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	53-148%	---	---	
2-Methylnaphthalene	1.77	0.0320	0.0640	ug/L	1	1.60	---	111	48-150%	---	---	
Naphthalene	1.78	0.0320	0.0640	ug/L	1	1.60	---	112	78-120%	---	---	
Phenanthrene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	80-120%	---	---	
Pyrene	1.79	0.0160	0.0320	ug/L	1	1.60	---	112	80-125%	---	---	
Carbazole	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	65-141%	---	---	
Dibenzofuran	1.83	0.0160	0.0320	ug/L	1	1.60	---	114	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr) Recovery: 90 % Limits: 78-134 % Dilution: 1x												
Benzo(a)pyrene-d12 (Surr) 113 % 80-132 % "												

LCS Dup (2310794-BSD1)				Prepared: 09/25/23 13:20 Analyzed: 09/25/23 18:05								Q-19
EPA 8270E LVI												
Acenaphthene	1.72	0.0160	0.0320	ug/L	1	1.60	---	108	80-120%	0.4	30%	
Acenaphthylene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	80-124%	2	30%	
Anthracene	1.80	0.0160	0.0320	ug/L	1	1.60	---	112	80-123%	1	30%	
Benz(a)anthracene	1.87	0.00800	0.0160	ug/L	1	1.60	---	117	80-122%	1	30%	
Benzo(a)pyrene	1.89	0.00800	0.0160	ug/L	1	1.60	---	118	80-129%	3	30%	
Benzo(b+j)fluoranthene(s)	1.86	0.00800	0.0160	ug/L	1	1.60	---	116	80-124%	3	30%	
Benzo(k)fluoranthene	1.89	0.00800	0.0160	ug/L	1	1.60	---	118	80-125%	2	30%	
Benzo(g,h,i)perylene	1.82	0.0160	0.0320	ug/L	1	1.60	---	114	80-120%	5	30%	
Chrysene	1.73	0.00800	0.0160	ug/L	1	1.60	---	108	80-120%	0.3	30%	
Dibenz(a,h)anthracene	1.73	0.00800	0.0160	ug/L	1	1.60	---	108	80-120%	0.6	30%	
Fluoranthene	1.90	0.0160	0.0320	ug/L	1	1.60	---	119	80-126%	5	30%	
Fluorene	1.76	0.0160	0.0320	ug/L	1	1.60	---	110	77-127%	9	30%	
Indeno(1,2,3-cd)pyrene	1.79	0.00800	0.0160	ug/L	1	1.60	---	112	80-121%	2	30%	
1-Methylnaphthalene	1.65	0.0320	0.0640	ug/L	1	1.60	---	103	53-148%	3	30%	
2-Methylnaphthalene	1.65	0.0320	0.0640	ug/L	1	1.60	---	103	48-150%	7	30%	
Naphthalene	1.75	0.0320	0.0640	ug/L	1	1.60	---	109	78-120%	2	30%	
Phenanthrene	1.74	0.0320	0.0640	ug/L	1	1.60	---	109	80-120%	1	30%	

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503-718-2323

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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:

A3I1334 - 12 05 23 0706

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 23I0794 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (23I0794-BSD1)			Prepared: 09/25/23 13:20 Analyzed: 09/25/23 18:05						Q-19			
Pyrene	1.90	0.0160	0.0320	ug/L	1	1.60	---	119	80-125%	6	30%	
Carbazole	1.78	0.0160	0.0320	ug/L	1	1.60	---	111	65-141%	6	30%	
Dibenzofuran	1.68	0.0160	0.0320	ug/L	1	1.60	---	105	76-121%	8	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 90 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %		"						

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A3I1334 - 12 05 23 0706

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 23J0020 - EPA 3015A						Water						
Blank (23J0020-BLK2)				Prepared: 10/02/23 09:59 Analyzed: 10/02/23 20:13								
EPA 6020B												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	Q-16
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
Barium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	Q-16
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	Q-16
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	Q-16
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	Q-16
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	Q-16
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	Q-16
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	Q-16
Manganese	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	Q-16
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	Q-16
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	Q-16
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	Q-16
Vanadium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	Q-16
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	Q-16

LCS (23J0020-BS1)

Prepared: 10/02/23 09:59 Analyzed: 10/02/23 20:19

EPA 6020B												
Aluminum	2820	25.0	50.0	ug/L	1	2780	---	102	80-120%	---	---	
Antimony	27.1	0.500	1.00	ug/L	1	27.8	---	98	80-120%	---	---	
Arsenic	54.4	0.500	1.00	ug/L	1	55.6	---	98	80-120%	---	---	
Barium	57.1	1.00	2.00	ug/L	1	55.6	---	103	80-120%	---	---	
Beryllium	27.7	0.100	0.200	ug/L	1	27.8	---	100	80-120%	---	---	
Cadmium	56.0	0.100	0.200	ug/L	1	55.6	---	101	80-120%	---	---	
Chromium	55.8	1.00	2.00	ug/L	1	55.6	---	100	80-120%	---	---	
Copper	58.1	1.00	2.00	ug/L	1	55.6	---	105	80-120%	---	---	
Iron	2930	25.0	50.0	ug/L	1	2780	---	105	80-120%	---	---	
Lead	56.3	0.110	0.200	ug/L	1	55.6	---	101	80-120%	---	---	
Manganese	56.0	0.500	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Mercury	1.08	0.0400	0.0800	ug/L	1	1.11	---	97	80-120%	---	---	

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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:

A3I1334 - 12 05 23 0706

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 23J0020 - EPA 3015A												
Water												
LCS (23J0020-BS1)												
Prepared: 10/02/23 09:59 Analyzed: 10/02/23 20:19												
Nickel	57.4	1.00	2.00	ug/L	1	55.6	---	103	80-120%	---	---	
Selenium	27.0	0.500	1.00	ug/L	1	27.8	---	97	80-120%	---	---	
Silver	28.5	0.100	0.200	ug/L	1	27.8	---	103	80-120%	---	---	
Thallium	26.8	0.100	0.200	ug/L	1	27.8	---	97	80-120%	---	---	
Vanadium	55.9	1.00	2.00	ug/L	1	55.6	---	101	80-120%	---	---	
Zinc	57.2	2.00	4.00	ug/L	1	55.6	---	103	80-120%	---	---	
Duplicate (23J0020-DUP1)												
Prepared: 10/02/23 09:59 Analyzed: 10/02/23 20:34												
QC Source Sample: GS-092123-31 (A3I1334-01)												
EPA 6020B												
Aluminum	657	25.0	50.0	ug/L	1	---	416	---	---	45	20%	Q-17
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	8.15	0.500	1.00	ug/L	1	---	8.05	---	---	1	20%	
Barium	44.8	1.00	2.00	ug/L	1	---	43.9	---	---	2	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Iron	28200	25.0	50.0	ug/L	1	---	27700	---	---	2	20%	
Lead	0.394	0.110	0.200	ug/L	1	---	0.366	---	---	7	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	2.39	1.00	2.00	ug/L	1	---	2.18	---	---	9	20%	
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Vanadium	1.30	1.00	2.00	ug/L	1	---	1.01	---	---	25	20%	J
Zinc	13.2	2.00	4.00	ug/L	1	---	12.4	---	---	6	20%	
Duplicate (23J0020-DUP2)												
Prepared: 10/02/23 09:59 Analyzed: 10/03/23 14:48												
QC Source Sample: GS-092123-31 (A3I1334-01RE1)												
EPA 6020B												
Manganese	3050	5.00	10.0	ug/L	10	---	3000	---	---	2	20%	Q-16

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Page 37 of 51

**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:****A3I1334 - 12 05 23 0706****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 23J0020 - EPA 3015A						Water						
Matrix Spike (23J0020-MS1)			Prepared: 10/02/23 09:59 Analyzed: 10/02/23 20:40									
QC Source Sample: GS-092123-31 (A3I1334-01)												
EPA 6020B												
Aluminum	3670	25.0	50.0	ug/L	1	2780	416	117	75-125%	---	---	
Antimony	28.0	0.500	1.00	ug/L	1	27.8	ND	101	75-125%	---	---	
Arsenic	62.6	0.500	1.00	ug/L	1	55.6	8.05	98	75-125%	---	---	
Barium	100	1.00	2.00	ug/L	1	55.6	43.9	101	75-125%	---	---	
Beryllium	26.9	0.100	0.200	ug/L	1	27.8	ND	97	75-125%	---	---	
Cadmium	56.2	0.100	0.200	ug/L	1	55.6	ND	101	75-125%	---	---	
Chromium	56.1	1.00	2.00	ug/L	1	55.6	ND	101	75-125%	---	---	
Copper	56.0	1.00	2.00	ug/L	1	55.6	ND	101	75-125%	---	---	
Iron	30000	25.0	50.0	ug/L	1	2780	27700	80	75-125%	---	---	
Lead	55.6	0.110	0.200	ug/L	1	55.6	0.366	99	75-125%	---	---	
Manganese	3010	0.500	1.00	ug/L	1	55.6	3070	-99	75-125%	---	---	E, Q-65
Mercury	1.08	0.0400	0.0800	ug/L	1	1.11	ND	97	75-125%	---	---	
Nickel	57.0	1.00	2.00	ug/L	1	55.6	2.18	99	75-125%	---	---	
Selenium	26.1	0.500	1.00	ug/L	1	27.8	ND	94	75-125%	---	---	
Silver	27.3	0.100	0.200	ug/L	1	27.8	ND	98	75-125%	---	---	
Thallium	25.7	0.100	0.200	ug/L	1	27.8	ND	92	75-125%	---	---	
Vanadium	56.9	1.00	2.00	ug/L	1	55.6	1.01	101	75-125%	---	---	
Zinc	68.4	2.00	4.00	ug/L	1	55.6	12.4	101	75-125%	---	---	

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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:

A3I1334 - 12 05 23 0706

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 23I0845 - Lachat Micro Dist - aqueous						Water						
Blank (23I0845-BLK1)			Prepared: 09/26/23 12:59 Analyzed: 09/26/23 17:08									
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0845-BS1)			Prepared: 09/26/23 12:59 Analyzed: 09/26/23 17:10									
EPA 335.4												
Total Cyanide	0.264	0.00500	0.00500	mg/L	1	0.250	---	105	90-110%	---	---	
Duplicate (23I0845-DUP1)			Prepared: 09/26/23 12:59 Analyzed: 09/26/23 17:32									
QC Source Sample: GS-092123-33 (A3I1334-03)												
EPA 335.4												
Total Cyanide	0.166	0.00500	0.00500	mg/L	1	---	0.163	---	---	2	10%	
Matrix Spike (23I0845-MS1)			Prepared: 09/26/23 12:59 Analyzed: 09/26/23 17:34									
QC Source Sample: GS-092123-33 (A3I1334-03)												
EPA 335.4												
Total Cyanide	0.427	0.00500	0.00500	mg/L	1	0.250	0.163	106	90-110%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
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: Non-SDG (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: Non-SDG (A3I1199-01)</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

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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:****A3I1334 - 12 05 23 0706****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 23J0026 - Method Prep: Aq						Water						
Blank (23J0026-BLK1)			Prepared: 10/02/23 11:49		Analyzed: 10/02/23 13:46							
D6888-09												
Available Cyanide	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23J0026-BS1)			Prepared: 10/02/23 11:49		Analyzed: 10/02/23 13:47							
D6888-09												
Available Cyanide	0.0280	0.00100	0.00200	mg/L	1	0.0250	---	112	90-117%	---	---	
Matrix Spike (23J0026-MS1)			Prepared: 10/02/23 11:49		Analyzed: 10/02/23 13:53							
QC Source Sample: Non-SDG (A3I1510-01)												
D6888-09												
Available Cyanide	0.0272	0.00101	0.00201	mg/L	1	0.0251	ND	108	82-130%	---	---	
Matrix Spike Dup (23J0026-MSD1)			Prepared: 10/02/23 11:49		Analyzed: 10/02/23 13:55							
QC Source Sample: Non-SDG (A3I1510-01)												
Available Cyanide	0.0274	0.00101	0.00201	mg/L	1	0.0251	ND	109	82-130%	0.7	11%	

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Project Manager: John Renda

Report ID:

A3I1334 - 12 05 23 0706

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: Non-SDG (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: Non-SDG (A3I1199-01)</u>												
Free Cyanide	0.0722	0.00250	0.00500	mg/L	1	0.0667	ND	108	74-120%	14	20%	

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310987 - Microdiffusion						Water						
Blank (2310987-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 (2310987-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 (2310987-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 (2310987-DUP1)			Prepared: 09/29/23 08:43 Analyzed: 09/29/23 13:04									
<u>QC Source Sample: Non-SDG (A311394-01)</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	ND	---	---	---	20%	
Matrix Spike (2310987-MS1)			Prepared: 09/29/23 08:43 Analyzed: 09/29/23 13:04									
<u>QC Source Sample: Non-SDG (A311394-01)</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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Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23J0096							
A3I1334-01	WG	NWTPH-Dx	09/21/23 10:35	10/04/23 16:54	1040mL/5mL	1000mL/5mL	0.96
A3I1334-02	WG	NWTPH-Dx	09/21/23 11:55	10/04/23 16:54	1010mL/5mL	1000mL/5mL	0.99
A3I1334-03	WG	NWTPH-Dx	09/21/23 13:50	10/04/23 16:54	1020mL/5mL	1000mL/5mL	0.98

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: 23I1030							
A3I1334-01	WG	NWTPH-Gx (MS)	09/21/23 10:35	10/02/23 10:49	5mL/5mL	5mL/5mL	1.00
A3I1334-02	WG	NWTPH-Gx (MS)	09/21/23 11:55	10/02/23 10:49	5mL/5mL	5mL/5mL	1.00
A3I1334-03	WG	NWTPH-Gx (MS)	09/21/23 13:50	10/02/23 10:49	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: 23I1030							
A3I1334-01	WG	EPA 8260D	09/21/23 10:35	10/02/23 10:49	5mL/5mL	5mL/5mL	1.00
A3I1334-02	WG	EPA 8260D	09/21/23 11:55	10/02/23 10:49	5mL/5mL	5mL/5mL	1.00
A3I1334-03	WG	EPA 8260D	09/21/23 13:50	10/02/23 10:49	5mL/5mL	5mL/5mL	1.00
A3I1334-04	W	EPA 8260D	09/21/23 16:00	10/02/23 10:49	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: 23I0794							
A3I1334-01	WG	EPA 8270E LVI	09/21/23 10:35	09/25/23 13:20	90.35mL/5mL	125mL/5mL	1.38
A3I1334-02	WG	EPA 8270E LVI	09/21/23 11:55	09/25/23 13:20	103.89mL/5mL	125mL/5mL	1.20
A3I1334-03	WG	EPA 8270E LVI	09/21/23 13:50	09/25/23 13:20	89.34mL/5mL	125mL/5mL	1.40

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
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Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23J0020							
A3I1334-01	WG	EPA 6020B	09/21/23 10:35	10/02/23 09:59	45mL/50mL	45mL/50mL	1.00
A3I1334-01RE1	WG	EPA 6020B	09/21/23 10:35	10/02/23 09:59	45mL/50mL	45mL/50mL	1.00
A3I1334-02	WG	EPA 6020B	09/21/23 11:55	10/02/23 09:59	45mL/50mL	45mL/50mL	1.00
A3I1334-03	WG	EPA 6020B	09/21/23 13:50	10/02/23 09:59	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
Batch: 23I0845							
A3I1334-01	WG	EPA 335.4	09/21/23 10:35	09/26/23 12:59	6mL/6mL	6mL/6mL	1.00
A3I1334-02	WG	EPA 335.4	09/21/23 11:55	09/26/23 12:59	6mL/6mL	6mL/6mL	1.00
A3I1334-03	WG	EPA 335.4	09/21/23 13:50	09/26/23 12:59	6mL/6mL	6mL/6mL	1.00

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection**Prep: Method Prep: Ag**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0791							
A3I1334-01	WG	D6888-09	09/21/23 10:35	09/25/23 11:23	5mL/5mL	5mL/5mL	1.00
A3I1334-02	WG	D6888-09	09/21/23 11:55	09/25/23 11:23	5mL/5mL	5mL/5mL	1.00
Batch: 23J0026							
A3I1334-03	WG	D6888-09	09/21/23 13:50	10/02/23 11:49	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
Batch: 23I0927							
A3I1334-01	WG	D4282-02	09/21/23 10:35	09/28/23 09:24	3mL/3mL	3mL/3mL	1.00
Batch: 23I0987							
A3I1334-02	WG	D4282-02	09/21/23 11:55	09/29/23 08:43	3mL/3mL	3mL/3mL	1.00
A3I1334-03	WG	D4282-02	09/21/23 13:50	09/29/23 08:43	3mL/3mL	3mL/3mL	1.00

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Project Manager: **John Renda**

Report ID:

A3I1334 - 12 05 23 0706

QUALIFIER DEFINITIONS

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

Apex Laboratories

- E** Estimated Value. The result is above the calibration range of the instrument.
- F-03** The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- 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.
- Q-02** Spike recovery is outside of established control limits due to matrix interference.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-17** RPD between original and duplicate sample, or spike duplicates, is outside of established control limits.
- 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-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- T-02** This Batch QC sample was analyzed outside of the method specified 12 hour analysis window. Results are estimated.
- V-01** Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

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).

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:

A3I1334 - 12 05 23 0706

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

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APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A3 I1334
Project/Project #: Gasco TCE Only Mon. wells 3Q 2023 Perf. Mon 000029-02.84
T-01.001F

Delivery Info:

Date/time received: 9/22/23 @ 815 By: EST
Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐

Cooler Inspection Date/time inspected: 9/22/23 @ 1010 By: EST

Chain of Custody included? Yes ☒ No ☐

Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>0.4</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>In</u>						

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

Green dots applied to out of temperature samples? Yes ☒ No ☐

Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 9/22/23 @ 1220 By: KS

All 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:

Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☐ No ☒ NA ☐ pH ID: A231172

Comments: Ph 9 on 125ml brown NaOH poly for A231237
GS-31-

Additional information: TB# 3369

Labeled by: KS

Witness: DS

Cooler Inspected by: KS

Form Y-003 R-01 -

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