



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: A311040 - Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon - 000029-02.84 T-01.001E

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 A311040, which was received by the laboratory on 9/13/2023 at 7:44:00AM.

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

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

Cooler Receipt Information	
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>	
(See Cooler Receipt Form for details)	
Cooler#1 1.7 degC	Cooler#2 2.3 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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-091223-08	A3I1040-01	WG	09/12/23 09:20	09/13/23 07:44
GS-091223-09	A3I1040-02	WG	09/12/23 10:20	09/13/23 07:44
GS-091223-10	A3I1040-03	WG	09/12/23 10:45	09/13/23 07:44
GS-091223-11	A3I1040-04	WG	09/12/23 11:45	09/13/23 07:44
GS-091223-12	A3I1040-05	WG	09/12/23 13:40	09/13/23 07:44
GS-091223-13	A3I1040-06	WG	09/12/23 14:45	09/13/23 07:44
TB-091223	A3I1040-07	W	09/12/23 15:10	09/13/23 07:44
GS-091223-14	A3I1040-08	WG	09/12/23 15:30	09/13/23 07:44

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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-091223-08 (A3I1040-01)		Matrix: WG			Batch: 23I0768			
Diesel	669	95.2	190	ug/L	1	09/25/23 22:12	NWTPH-Dx	F-13
Oil	366	190	381	ug/L	1	09/25/23 22:12	NWTPH-Dx	J
Surrogate: o-Terphenyl (Surr)		Recovery: 103 %			Limits: 50-150 %	1	09/25/23 22:12	NWTPH-Dx
GS-091223-09 (A3I1040-02)		Matrix: WG			Batch: 23I0768			
Diesel	142	96.2	192	ug/L	1	09/25/23 22:33	NWTPH-Dx	J
Oil	ND	192	385	ug/L	1	09/25/23 22:33	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 109 %			Limits: 50-150 %	1	09/25/23 22:33	NWTPH-Dx
GS-091223-10 (A3I1040-03)		Matrix: WG			Batch: 23I0768			
Diesel	3020	96.2	192	ug/L	1	09/25/23 22:53	NWTPH-Dx	F-20
Oil	ND	192	385	ug/L	1	09/25/23 22:53	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 109 %			Limits: 50-150 %	1	09/25/23 22:53	NWTPH-Dx
GS-091223-11 (A3I1040-04)		Matrix: WG			Batch: 23I0768			
Diesel	ND	96.2	192	ug/L	1	09/26/23 00:37	NWTPH-Dx	
Oil	ND	192	385	ug/L	1	09/26/23 00:37	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 109 %			Limits: 50-150 %	1	09/26/23 00:37	NWTPH-Dx
GS-091223-12 (A3I1040-05)		Matrix: WG			Batch: 23I0768			
Diesel	6310	96.2	192	ug/L	1	09/26/23 00:57	NWTPH-Dx	F-13, F-20
Oil	500	192	385	ug/L	1	09/26/23 00:57	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 104 %			Limits: 50-150 %	1	09/26/23 00:57	NWTPH-Dx
GS-091223-13 (A3I1040-06)		Matrix: WG			Batch: 23I0768			
Diesel	ND	96.2	192	ug/L	1	09/26/23 01:18	NWTPH-Dx	
Oil	ND	192	385	ug/L	1	09/26/23 01:18	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 105 %			Limits: 50-150 %	1	09/26/23 01:18	NWTPH-Dx
GS-091223-14 (A3I1040-08)		Matrix: WG			Batch: 23I0768			
Diesel	ND	97.1	194	ug/L	1	09/26/23 01:38	NWTPH-Dx	
Oil	ND	194	388	ug/L	1	09/26/23 01:38	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 108 %			Limits: 50-150 %	1	09/26/23 01:38	NWTPH-Dx

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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-091223-08 (A3I1040-01RE1)		Matrix: WG		Batch: 23I0410				
Gasoline Range Organics	65.8	50.0	100	ug/L	1	09/14/23 16:49	NWTPH-Gx (MS)	J
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 92 %	Limits: 50-150 %	1	09/14/23 16:49	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		115 %	50-150 %	1	09/14/23 16:49	NWTPH-Gx (MS)		
GS-091223-09 (A3I1040-02RE1)		Matrix: WG		Batch: 23I0410				
Gasoline Range Organics	ND	50.0	100	ug/L	1	09/14/23 17:11	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 91 %	Limits: 50-150 %	1	09/14/23 17:11	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		117 %	50-150 %	1	09/14/23 17:11	NWTPH-Gx (MS)		
GS-091223-10 (A3I1040-03RE1)		Matrix: WG		Batch: 23I0410				
Gasoline Range Organics	5520	250	500	ug/L	5	09/14/23 19:49	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 91 %	Limits: 50-150 %	1	09/14/23 19:49	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		109 %	50-150 %	1	09/14/23 19:49	NWTPH-Gx (MS)		
GS-091223-11 (A3I1040-04RE1)		Matrix: WG		Batch: 23I0410				
Gasoline Range Organics	ND	50.0	100	ug/L	1	09/14/23 17:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 90 %	Limits: 50-150 %	1	09/14/23 17:34	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		116 %	50-150 %	1	09/14/23 17:34	NWTPH-Gx (MS)		
GS-091223-12 (A3I1040-05)		Matrix: WG		Batch: 23I0365				
Gasoline Range Organics	24100	2500	5000	ug/L	50	09/13/23 20:25	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 89 %	Limits: 50-150 %	1	09/13/23 20:25	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		109 %	50-150 %	1	09/13/23 20:25	NWTPH-Gx (MS)		
GS-091223-13 (A3I1040-06RE1)		Matrix: WG		Batch: 23I0410				
Gasoline Range Organics	60.0	50.0	100	ug/L	1	09/14/23 18:19	NWTPH-Gx (MS)	J
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 91 %	Limits: 50-150 %	1	09/14/23 18:19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		117 %	50-150 %	1	09/14/23 18:19	NWTPH-Gx (MS)		
GS-091223-14 (A3I1040-08RE1)		Matrix: WG		Batch: 23I0410				
Gasoline Range Organics	ND	50.0	100	ug/L	1	09/14/23 17:56	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 90 %	Limits: 50-150 %	1	09/14/23 17:56	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		117 %	50-150 %	1	09/14/23 17:56	NWTPH-Gx (MS)		

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-08 (A3I1040-01RE1)		Matrix: WG			Batch: 23I0410			
Acetone	ND	10.0	20.0	ug/L	1	09/14/23 16:49	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Benzene	0.140	0.100	0.200	ug/L	1	09/14/23 16:49	EPA 8260D	J
Bromobenzene	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/14/23 16:49	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/14/23 16:49	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/14/23 16:49	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/14/23 16:49	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-08 (A311040-01RE1)		Matrix: WG			Batch: 2310410			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/14/23 16:49	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/14/23 16:49	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/14/23 16:49	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	09/14/23 16:49	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/14/23 16:49	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/14/23 16:49	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/14/23 16:49	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/14/23 16:49	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/14/23 16:49	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-08 (A3I1040-01RE1)		Matrix: WG			Batch: 23I0410			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 92 %	Limits: 80-120 %	1	09/14/23 16:49	EPA 8260D		
Toluene-d8 (Surr)		106 %	80-120 %	1	09/14/23 16:49	EPA 8260D		
4-Bromofluorobenzene (Surr)		97 %	80-120 %	1	09/14/23 16:49	EPA 8260D		
GS-091223-09 (A3I1040-02RE1)		Matrix: WG			Batch: 23I0410			
Acetone	ND	10.0	20.0	ug/L	1	09/14/23 17:11	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/14/23 17:11	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/14/23 17:11	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/14/23 17:11	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/14/23 17:11	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/14/23 17:11	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-09 (A311040-02RE1)		Matrix: WG			Batch: 2310410			
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/14/23 17:11	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/14/23 17:11	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/14/23 17:11	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	09/14/23 17:11	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/14/23 17:11	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/14/23 17:11	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-09 (A311040-02RE1)		Matrix: WG			Batch: 2310410			
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/14/23 17:11	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/14/23 17:11	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/14/23 17:11	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>09/14/23 17:11</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>109 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/14/23 17:11</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/14/23 17:11</i>	<i>EPA 8260D</i>	
GS-091223-10 (A311040-03RE1)		Matrix: WG			Batch: 2310410			
Acetone	ND	50.0	100	ug/L	5	09/14/23 19:49	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	09/14/23 19:49	EPA 8260D	
Benzene	689	0.500	1.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	09/14/23 19:49	EPA 8260D	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	09/14/23 19:49	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Carbon disulfide	ND	25.0	50.0	ug/L	5	09/14/23 19:49	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Chlorobenzene	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	5	09/14/23 19:49	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	09/14/23 19:49	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	09/14/23 19:49	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-10 (A311040-03RE1)		Matrix: WG			Batch: 2310410			
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Ethylbenzene	3.05	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	09/14/23 19:49	EPA 8260D	
2-Hexanone	ND	25.0	50.0	ug/L	5	09/14/23 19:49	EPA 8260D	
Isopropylbenzene	10.2	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	09/14/23 19:49	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	09/14/23 19:49	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Naphthalene	60.4	12.5	25.0	ug/L	5	09/14/23 19:49	EPA 8260D	
n-Propylbenzene	7.90	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
Styrene	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	09/14/23 19:49	EPA 8260D	
Toluene	3.00	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	09/14/23 19:49	EPA 8260D	
1,2,4-Trichlorobenzene	ND	10.0	10.0	ug/L	5	09/14/23 19:49	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	09/14/23 19:49	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 10 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-10 (A3I1040-03RE1)		Matrix: WG			Batch: 23I0410			
1,2,4-Trimethylbenzene	20.9	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
1,3,5-Trimethylbenzene	12.2	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	
m,p-Xylene	3.65	2.50	5.00	ug/L	5	09/14/23 19:49	EPA 8260D	J
o-Xylene	5.05	1.25	2.50	ug/L	5	09/14/23 19:49	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>09/14/23 19:49</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/14/23 19:49</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/14/23 19:49</i>	<i>EPA 8260D</i>	
GS-091223-11 (A3I1040-04RE1)		Matrix: WG			Batch: 23I0410			
Acetone	ND	10.0	20.0	ug/L	1	09/14/23 17:34	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/14/23 17:34	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/14/23 17:34	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/14/23 17:34	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/14/23 17:34	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/14/23 17:34	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-11 (A311040-04RE1)		Matrix: WG			Batch: 2310410			
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/14/23 17:34	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/14/23 17:34	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/14/23 17:34	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	09/14/23 17:34	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/14/23 17:34	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-11 (A311040-04RE1)		Matrix: WG			Batch: 2310410			
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/14/23 17:34	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/14/23 17:34	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/14/23 17:34	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/14/23 17:34	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %	1	09/14/23 17:34	EPA 8260D	
Toluene-d8 (Surr)		109 %		80-120 %	1	09/14/23 17:34	EPA 8260D	
4-Bromofluorobenzene (Surr)		100 %		80-120 %	1	09/14/23 17:34	EPA 8260D	
GS-091223-12 (A311040-05)		Matrix: WG			Batch: 2310365			
Acetone	ND	500	1000	ug/L	50	09/13/23 20:25	EPA 8260D	
Acrylonitrile	ND	50.0	100	ug/L	50	09/13/23 20:25	EPA 8260D	
Benzene	2620	5.00	10.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Bromobenzene	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Bromochloromethane	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Bromoform	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Bromomethane	ND	250	250	ug/L	50	09/13/23 20:25	EPA 8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	09/13/23 20:25	EPA 8260D	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Carbon disulfide	ND	250	500	ug/L	50	09/13/23 20:25	EPA 8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Chloroethane	ND	250	250	ug/L	50	09/13/23 20:25	EPA 8260D	
Chloroform	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Chloromethane	ND	250	250	ug/L	50	09/13/23 20:25	EPA 8260D	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 13 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-12 (A311040-05)		Matrix: WG			Batch: 2310365			
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/L	50	09/13/23 20:25	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Dibromomethane	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Dichlorodifluoromethane	ND	50.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,1-Dichloroethane	ND	10.0	20.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Ethylbenzene	175	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Hexachlorobutadiene	ND	125	250	ug/L	50	09/13/23 20:25	EPA 8260D	
2-Hexanone	ND	250	500	ug/L	50	09/13/23 20:25	EPA 8260D	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Methylene chloride	ND	250	500	ug/L	50	09/13/23 20:25	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	250	500	ug/L	50	09/13/23 20:25	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Naphthalene	4450	125	250	ug/L	50	09/13/23 20:25	EPA 8260D	
n-Propylbenzene	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Styrene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	10.0	20.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Toluene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	09/13/23 20:25	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 14 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-12 (A3I1040-05)		Matrix: WG			Batch: 23I0365			
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	09/13/23 20:25	EPA 8260D	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	09/13/23 20:25	EPA 8260D	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,2,4-Trimethylbenzene	92.0	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
m,p-Xylene	170	25.0	50.0	ug/L	50	09/13/23 20:25	EPA 8260D	
o-Xylene	87.5	12.5	25.0	ug/L	50	09/13/23 20:25	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %	1	09/13/23 20:25	EPA 8260D	
Toluene-d8 (Surr)		106 %		80-120 %	1	09/13/23 20:25	EPA 8260D	
4-Bromofluorobenzene (Surr)		97 %		80-120 %	1	09/13/23 20:25	EPA 8260D	
GS-091223-13 (A3I1040-06RE1)		Matrix: WG			Batch: 23I0410			
Acetone	ND	10.0	20.0	ug/L	1	09/14/23 18:19	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/14/23 18:19	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/14/23 18:19	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/14/23 18:19	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/14/23 18:19	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Chlorobenzene	0.810	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/14/23 18:19	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 15 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-13 (A311040-06RE1)		Matrix: WG			Batch: 2310410			
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2-Dichlorobenzene	2.97	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
1,4-Dichlorobenzene	2.47	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
cis-1,2-Dichloroethene	0.660	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/14/23 18:19	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/14/23 18:19	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/14/23 18:19	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	09/14/23 18:19	EPA 8260D	
Methyl tert-butyl ether (MTBE)	1.99	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/14/23 18:19	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-13 (A311040-06RE1)		Matrix: WG			Batch: 2310410			
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/14/23 18:19	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/14/23 18:19	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/14/23 18:19	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/14/23 18:19	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %	1	09/14/23 18:19	EPA 8260D	
Toluene-d8 (Surr)		106 %		80-120 %	1	09/14/23 18:19	EPA 8260D	
4-Bromofluorobenzene (Surr)		98 %		80-120 %	1	09/14/23 18:19	EPA 8260D	
TB-091223 (A311040-07)		Matrix: W			Batch: 2310410			
Acetone	ND	10.0	20.0	ug/L	1	09/14/23 11:10	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/14/23 11:10	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/14/23 11:10	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/14/23 11:10	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/14/23 11:10	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-091223 (A3I1040-07)		Matrix: W			Batch: 23I0410			
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/14/23 11:10	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/14/23 11:10	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/14/23 11:10	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/14/23 11:10	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	09/14/23 11:10	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-091223 (A311040-07)		Matrix: W			Batch: 2310410			
Naphthalene	ND	2.50	5.00	ug/L	1	09/14/23 11:10	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/14/23 11:10	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/14/23 11:10	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/14/23 11:10	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/14/23 11:10	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>09/14/23 11:10</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>107 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/14/23 11:10</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/14/23 11:10</i>	<i>EPA 8260D</i>	

GS-091223-14 (A311040-08RE1)**Matrix: WG****Batch: 2310410**

Acetone	ND	10.0	20.0	ug/L	1	09/14/23 17:56	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/14/23 17:56	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/14/23 17:56	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/14/23 17:56	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-14 (A311040-08RE1)		Matrix: WG			Batch: 2310410			
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/14/23 17:56	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/14/23 17:56	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/14/23 17:56	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/14/23 17:56	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-14 (A3I1040-08RE1)		Matrix: WG			Batch: 23I0410			
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/14/23 17:56	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	09/14/23 17:56	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/14/23 17:56	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/14/23 17:56	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/14/23 17:56	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/14/23 17:56	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/14/23 17:56	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	92 %	Limits:	80-120 %	1	09/14/23 17:56	EPA 8260D
Toluene-d8 (Surr)			108 %		80-120 %	1	09/14/23 17:56	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	09/14/23 17:56	EPA 8260D

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 21 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-10 (A3I1040-03)		Matrix: WG			Batch: 23I0546			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	09/18/23 23:34	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	09/18/23 23:34	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	09/18/23 23:34	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	09/18/23 23:34	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	09/18/23 23:34	EPA 8260D SIM	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>106 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>09/18/23 23:34</i>	<i>EPA 8260D SIM</i>
<i>Toluene-d8 (Surr)</i>			<i>119 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/18/23 23:34</i>	<i>EPA 8260D SIM</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/18/23 23:34</i>	<i>EPA 8260D SIM</i>
GS-091223-12 (A3I1040-05)		Matrix: WG			Batch: 23I0546			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	09/19/23 00:28	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.500	0.500	ug/L	25	09/19/23 00:28	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	09/19/23 00:28	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	09/19/23 00:28	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	09/19/23 00:28	EPA 8260D SIM	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>108 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>09/19/23 00:28</i>	<i>EPA 8260D SIM</i>
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/19/23 00:28</i>	<i>EPA 8260D SIM</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>95 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/19/23 00:28</i>	<i>EPA 8260D SIM</i>

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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-091223-08 (A3I1040-01RE1)		Matrix: WG			Batch: 23I0360			
Acenaphthene	29.6	0.240	0.479	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Acenaphthylene	1.49	0.240	0.479	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Anthracene	0.479	0.240	0.479	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Benz(a)anthracene	ND	0.120	0.240	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.120	0.240	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.120	0.240	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.120	0.240	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.240	0.479	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Chrysene	ND	0.120	0.240	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.120	0.240	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Fluoranthene	1.86	0.240	0.479	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Fluorene	0.935	0.240	0.479	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.120	0.240	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.479	0.959	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.479	0.959	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Naphthalene	ND	0.479	0.959	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Phenanthrene	ND	0.479	0.959	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Pyrene	1.07	0.240	0.479	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Dibenzofuran	ND	0.240	0.479	ug/L	10	09/14/23 15:31	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 42 %		Limits: 78-134 %	10	09/14/23 15:31	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		98 %		80-132 %	10	09/14/23 15:31	EPA 8270E LVI	S-05
GS-091223-09 (A3I1040-02)		Matrix: WG			Batch: 23I0360			
Acenaphthene	ND	0.0171	0.0343	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Acenaphthylene	0.0339	0.0171	0.0343	ug/L	1	09/14/23 12:48	EPA 8270E LVI	J
Anthracene	0.0227	0.0171	0.0343	ug/L	1	09/14/23 12:48	EPA 8270E LVI	J
Benz(a)anthracene	ND	0.00857	0.0171	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Benzo(a)pyrene	0.00857	0.00857	0.0171	ug/L	1	09/14/23 12:48	EPA 8270E LVI	J
Benzo(b+j)fluoranthene(s)	0.00943	0.00857	0.0171	ug/L	1	09/14/23 12:48	EPA 8270E LVI	J
Benzo(k)fluoranthene	ND	0.00857	0.0171	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0171	0.0343	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Chrysene	ND	0.00857	0.0171	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00857	0.0171	ug/L	1	09/14/23 12:48	EPA 8270E LVI	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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-091223-09 (A3I1040-02)		Matrix: WG			Batch: 23I0360			
Fluoranthene	ND	0.0171	0.0343	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Fluorene	ND	0.0171	0.0343	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	0.00857	0.00857	0.0171	ug/L	1	09/14/23 12:48	EPA 8270E LVI	J
1-Methylnaphthalene	ND	0.0343	0.0686	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0343	0.0686	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Naphthalene	0.0549	0.0343	0.0686	ug/L	1	09/14/23 12:48	EPA 8270E LVI	J
Phenanthrene	ND	0.0343	0.0686	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Pyrene	0.0180	0.0171	0.0343	ug/L	1	09/14/23 12:48	EPA 8270E LVI	J
Dibenzofuran	ND	0.0171	0.0343	ug/L	1	09/14/23 12:48	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 98 %		Limits: 78-134 %	1	09/14/23 12:48	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		116 %		80-132 %	1	09/14/23 12:48	EPA 8270E LVI	
GS-091223-10 (A3I1040-03)		Matrix: WG			Batch: 23I0360			
Acenaphthene	272	2.15	4.30	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Acenaphthylene	ND	9.94	9.94	ug/L	100	09/14/23 11:43	EPA 8270E LVI	R-02
Anthracene	4.94	2.15	4.30	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Benz(a)anthracene	ND	1.07	2.15	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Benzo(a)pyrene	ND	1.07	2.15	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	1.07	2.15	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	1.07	2.15	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	2.15	4.30	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Chrysene	ND	1.07	2.15	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	1.07	2.15	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Fluoranthene	3.92	2.15	4.30	ug/L	100	09/14/23 11:43	EPA 8270E LVI	J
Fluorene	37.3	2.15	4.30	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	1.07	2.15	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
1-Methylnaphthalene	138	4.30	8.59	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
2-Methylnaphthalene	6.77	4.30	8.59	ug/L	100	09/14/23 11:43	EPA 8270E LVI	J
Naphthalene	37.3	4.30	8.59	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Phenanthrene	19.1	4.30	8.59	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Pyrene	3.17	2.15	4.30	ug/L	100	09/14/23 11:43	EPA 8270E LVI	J
Dibenzofuran	8.16	2.15	4.30	ug/L	100	09/14/23 11:43	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	09/14/23 11:43	EPA 8270E LVI	S-01

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 24 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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-091223-10 (A3I1040-03)				Matrix: WG		Batch: 23I0360		
Surrogate: Benzo(a)pyrene-d12 (Surr)		Recovery: 80 %		Limits: 80-132 %	100	09/14/23 11:43	EPA 8270E LVI	S-05
GS-091223-11 (A3I1040-04)				Matrix: WG		Batch: 23I0360		
Acenaphthene	ND	0.0163	0.0326	ug/L	1	09/14/23 13:20	EPA 8270E LVI	J
Acenaphthylene	ND	0.0163	0.0326	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Anthracene	0.0240	0.0163	0.0326	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00814	0.0163	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00814	0.0163	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.00814	0.0163	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00814	0.0163	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0163	0.0326	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Chrysene	ND	0.00814	0.0163	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00814	0.0163	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Fluoranthene	ND	0.0163	0.0326	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Fluorene	ND	0.0163	0.0326	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00814	0.0163	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0326	0.0651	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0326	0.0651	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Naphthalene	ND	0.0326	0.0651	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Phenanthrene	ND	0.0326	0.0651	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Pyrene	ND	0.0163	0.0326	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Dibenzofuran	ND	0.0163	0.0326	ug/L	1	09/14/23 13:20	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 96 %		Limits: 78-134 %	1	09/14/23 13:20	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %	1	09/14/23 13:20	EPA 8270E LVI	
GS-091223-12 (A3I1040-05)				Matrix: WG		Batch: 23I0360		
Acenaphthene	99.4	2.12	4.25	ug/L	100	09/14/23 12:15	EPA 8270E LVI	R-02
Acenaphthylene	ND	5.18	5.18	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Anthracene	3.50	2.12	4.25	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Benz(a)anthracene	ND	1.06	2.12	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Benzo(a)pyrene	ND	1.06	2.12	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	1.06	2.12	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	1.06	2.12	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	2.12	4.25	ug/L	100	09/14/23 12:15	EPA 8270E LVI	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 25 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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-091223-12 (A3I1040-05)		Matrix: WG			Batch: 23I0360			
Chrysene	ND	1.06	2.12	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	1.06	2.12	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Fluoranthene	12.3	2.12	4.25	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Fluorene	17.8	2.12	4.25	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	1.06	2.12	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
1-Methylnaphthalene	200	4.25	8.50	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
2-Methylnaphthalene	160	4.25	8.50	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Phenanthrene	17.3	4.25	8.50	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Pyrene	13.8	2.12	4.25	ug/L	100	09/14/23 12:15	EPA 8270E LVI	
Dibenzofuran	2.97	2.12	4.25	ug/L	100	09/14/23 12:15	EPA 8270E LVI	J
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	09/14/23 12:15	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		88 %		80-132 %	100	09/14/23 12:15	EPA 8270E LVI	S-05
GS-091223-12 (A3I1040-05RE1)		Matrix: WG			Batch: 23I0360			
Naphthalene	4160	42.5	85.0	ug/L	1000	09/14/23 16:04	EPA 8270E LVI	
GS-091223-13 (A3I1040-06)		Matrix: WG			Batch: 23I0360			
Acenaphthene	ND	0.0197	0.0395	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Acenaphthylene	ND	0.0197	0.0395	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Anthracene	0.0222	0.0197	0.0395	ug/L	1	09/14/23 13:53	EPA 8270E LVI	J
Benz(a)anthracene	ND	0.00987	0.0197	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00987	0.0197	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.00987	0.0197	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00987	0.0197	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0197	0.0395	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Chrysene	ND	0.00987	0.0197	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00987	0.0197	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Fluoranthene	0.0237	0.0197	0.0395	ug/L	1	09/14/23 13:53	EPA 8270E LVI	J
Fluorene	ND	0.0197	0.0395	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00987	0.0197	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0395	0.0789	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0395	0.0789	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Naphthalene	0.0814	0.0395	0.0789	ug/L	1	09/14/23 13:53	EPA 8270E LVI	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 26 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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-091223-13 (A311040-06)		Matrix: WG			Batch: 2310360			
Phenanthrene	ND	0.0395	0.0789	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Pyrene	0.0350	0.0197	0.0395	ug/L	1	09/14/23 13:53	EPA 8270E LVI	J
Dibenzofuran	ND	0.0197	0.0395	ug/L	1	09/14/23 13:53	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 97 %		Limits: 78-134 %	1	09/14/23 13:53	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %	1	09/14/23 13:53	EPA 8270E LVI	
GS-091223-14 (A311040-08)		Matrix: WG			Batch: 2310360			
Acenaphthene	ND	0.0160	0.0321	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Acenaphthylene	ND	0.0160	0.0321	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Anthracene	ND	0.0160	0.0321	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00802	0.0160	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00802	0.0160	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.00802	0.0160	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00802	0.0160	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0160	0.0321	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Chrysene	ND	0.00802	0.0160	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00802	0.0160	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Fluoranthene	ND	0.0160	0.0321	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Fluorene	ND	0.0160	0.0321	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00802	0.0160	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0321	0.0641	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0321	0.0641	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Naphthalene	ND	0.0321	0.0641	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Phenanthrene	ND	0.0321	0.0641	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Pyrene	ND	0.0160	0.0321	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Dibenzofuran	ND	0.0160	0.0321	ug/L	1	09/14/23 14:26	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 97 %		Limits: 78-134 %	1	09/14/23 14:26	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		112 %		80-132 %	1	09/14/23 14:26	EPA 8270E LVI	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 27 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-08 (A3I1040-01)		Matrix: WG						
Batch: 23I0671								
Aluminum	62.7	25.0	50.0	ug/L	1	09/21/23 20:13	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/21/23 20:13	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	09/21/23 20:13	EPA 6020B	
Barium	67.2	1.00	2.00	ug/L	1	09/21/23 20:13	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/21/23 20:13	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/21/23 20:13	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/21/23 20:13	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/21/23 20:13	EPA 6020B	
Iron	17700	25.0	50.0	ug/L	1	09/21/23 20:13	EPA 6020B	
Lead	0.224	0.110	0.200	ug/L	1	09/21/23 20:13	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/21/23 20:13	EPA 6020B	
Nickel	23.7	1.00	2.00	ug/L	1	09/21/23 20:13	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/21/23 20:13	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/21/23 20:13	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/21/23 20:13	EPA 6020B	
Vanadium	13.8	1.00	2.00	ug/L	1	09/21/23 20:13	EPA 6020B	
Zinc	7.50	2.00	4.00	ug/L	1	09/21/23 20:13	EPA 6020B	
GS-091223-08 (A3I1040-01RE1)		Matrix: WG						
Batch: 23I0671								
Manganese	2660	5.00	10.0	ug/L	10	09/22/23 16:22	EPA 6020B	
GS-091223-09 (A3I1040-02)		Matrix: WG						
Batch: 23I0671								
Aluminum	85.8	25.0	50.0	ug/L	1	09/21/23 20:19	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Barium	25.5	1.00	2.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/21/23 20:19	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/21/23 20:19	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Iron	1050	25.0	50.0	ug/L	1	09/21/23 20:19	EPA 6020B	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-09 (A3I1040-02)		Matrix: WG						
Lead	ND	0.110	0.200	ug/L	1	09/21/23 20:19	EPA 6020B	
Manganese	521	0.500	1.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/21/23 20:19	EPA 6020B	
Nickel	3.82	1.00	2.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/21/23 20:19	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/21/23 20:19	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	09/21/23 20:19	EPA 6020B	
Zinc	4.69	2.00	4.00	ug/L	1	09/21/23 20:19	EPA 6020B	
GS-091223-10 (A3I1040-03)		Matrix: WG						
Batch: 23I0671								
Aluminum	ND	25.0	50.0	ug/L	1	09/21/23 20:24	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/21/23 20:24	EPA 6020B	
Arsenic	1.48	0.500	1.00	ug/L	1	09/21/23 20:24	EPA 6020B	
Barium	63.0	1.00	2.00	ug/L	1	09/21/23 20:24	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/21/23 20:24	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/21/23 20:24	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/21/23 20:24	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/21/23 20:24	EPA 6020B	
Iron	36700	25.0	50.0	ug/L	1	09/21/23 20:24	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	09/21/23 20:24	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/21/23 20:24	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	09/21/23 20:24	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/21/23 20:24	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/21/23 20:24	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/21/23 20:24	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	09/21/23 20:24	EPA 6020B	
Zinc	2.48	2.00	4.00	ug/L	1	09/21/23 20:24	EPA 6020B	J
GS-091223-10 (A3I1040-03RE1)		Matrix: WG						
Batch: 23I0671								
Manganese	3740	5.00	10.0	ug/L	10	09/22/23 16:28	EPA 6020B	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-11 (A3I1040-04)		Matrix: WG						
Batch: 23I0671								
Aluminum	108	25.0	50.0	ug/L	1	09/21/23 20:29	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Barium	24.7	1.00	2.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/21/23 20:29	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/21/23 20:29	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Iron	456	25.0	50.0	ug/L	1	09/21/23 20:29	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	09/21/23 20:29	EPA 6020B	
Manganese	293	0.500	1.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/21/23 20:29	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/21/23 20:29	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/21/23 20:29	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	09/21/23 20:29	EPA 6020B	
Zinc	2.00	2.00	4.00	ug/L	1	09/21/23 20:29	EPA 6020B	J
GS-091223-12 (A3I1040-05)		Matrix: WG						
Batch: 23I0671								
Aluminum	91.4	25.0	50.0	ug/L	1	09/21/23 20:44	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/21/23 20:44	EPA 6020B	
Arsenic	0.812	0.500	1.00	ug/L	1	09/21/23 20:44	EPA 6020B	J
Barium	57.1	1.00	2.00	ug/L	1	09/21/23 20:44	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/21/23 20:44	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/21/23 20:44	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/21/23 20:44	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/21/23 20:44	EPA 6020B	
Iron	11000	25.0	50.0	ug/L	1	09/21/23 20:44	EPA 6020B	
Lead	0.145	0.110	0.200	ug/L	1	09/21/23 20:44	EPA 6020B	J
Manganese	1720	0.500	1.00	ug/L	1	09/21/23 20:44	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/21/23 20:44	EPA 6020B	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-12 (A3I1040-05)		Matrix: WG						
Nickel	1.08	1.00	2.00	ug/L	1	09/21/23 20:44	EPA 6020B	J
Selenium	ND	0.500	1.00	ug/L	1	09/21/23 20:44	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/21/23 20:44	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/21/23 20:44	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	09/21/23 20:44	EPA 6020B	
Zinc	4.11	2.00	4.00	ug/L	1	09/21/23 20:44	EPA 6020B	
GS-091223-13 (A3I1040-06)		Matrix: WG						
Batch: 23I0671								
Aluminum	620	25.0	50.0	ug/L	1	09/21/23 20:49	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/21/23 20:49	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	09/21/23 20:49	EPA 6020B	
Barium	75.9	1.00	2.00	ug/L	1	09/21/23 20:49	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	09/21/23 20:49	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/21/23 20:49	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/21/23 20:49	EPA 6020B	
Copper	1.66	1.00	2.00	ug/L	1	09/21/23 20:49	EPA 6020B	J
Iron	1920	25.0	50.0	ug/L	1	09/21/23 20:49	EPA 6020B	
Lead	0.370	0.110	0.200	ug/L	1	09/21/23 20:49	EPA 6020B	
Manganese	1870	0.500	1.00	ug/L	1	09/21/23 20:49	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/21/23 20:49	EPA 6020B	
Nickel	2.44	1.00	2.00	ug/L	1	09/21/23 20:49	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/21/23 20:49	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/21/23 20:49	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/21/23 20:49	EPA 6020B	
Vanadium	1.59	1.00	2.00	ug/L	1	09/21/23 20:49	EPA 6020B	J
Zinc	6.47	2.00	4.00	ug/L	1	09/21/23 20:49	EPA 6020B	
GS-091223-14 (A3I1040-08)		Matrix: WG						
Batch: 23I0671								
Aluminum	ND	25.0	50.0	ug/L	1	09/21/23 20:54	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	09/21/23 20:54	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	09/21/23 20:54	EPA 6020B	
Barium	ND	1.00	2.00	ug/L	1	09/21/23 20:54	EPA 6020B	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-14 (A311040-08)		Matrix: WG						
Beryllium	ND	0.100	0.200	ug/L	1	09/21/23 20:54	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/21/23 20:54	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	09/21/23 20:54	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/21/23 20:54	EPA 6020B	
Iron	ND	25.0	50.0	ug/L	1	09/21/23 20:54	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	09/21/23 20:54	EPA 6020B	
Manganese	ND	0.500	1.00	ug/L	1	09/21/23 20:54	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/21/23 20:54	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	09/21/23 20:54	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/21/23 20:54	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/21/23 20:54	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/21/23 20:54	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	09/21/23 20:54	EPA 6020B	
Zinc	ND	2.00	4.00	ug/L	1	09/21/23 20:54	EPA 6020B	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 32 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

ANALYTICAL SAMPLE RESULTS

Total Cyanide by Flow Analysis (Aqueous)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-08 (A3I1040-01)				Matrix: WG		Batch: 23I0562		
Total Cyanide	0.0191	0.00500	0.00500	mg/L	1	09/19/23 19:05	EPA 335.4	
GS-091223-09 (A3I1040-02)				Matrix: WG		Batch: 23I0562		
Total Cyanide	0.0238	0.00500	0.00500	mg/L	1	09/19/23 19:07	EPA 335.4	
GS-091223-10 (A3I1040-03RE1)				Matrix: WG		Batch: 23I0562		
Total Cyanide	0.280	0.00500	0.00500	mg/L	1	09/19/23 19:39	EPA 335.4	
GS-091223-11 (A3I1040-04)				Matrix: WG		Batch: 23I0562		
Total Cyanide	0.0990	0.00500	0.00500	mg/L	1	09/19/23 19:11	EPA 335.4	
GS-091223-12 (A3I1040-05)				Matrix: WG		Batch: 23I0562		
Total Cyanide	0.106	0.00500	0.00500	mg/L	1	09/19/23 19:13	EPA 335.4	
GS-091223-13 (A3I1040-06)				Matrix: WG		Batch: 23I0562		
Total Cyanide	0.0461	0.00500	0.00500	mg/L	1	09/19/23 19:15	EPA 335.4	
GS-091223-14 (A3I1040-08)				Matrix: WG		Batch: 23I0562		
Total Cyanide	ND	0.00500	0.00500	mg/L	1	09/19/23 19:17	EPA 335.4	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 33 of 85

**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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558****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-091223-08 (A3I1040-01)				Matrix: WG		Batch: 23I0547		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/18/23 17:26	D6888-09	
GS-091223-09 (A3I1040-02)				Matrix: WG		Batch: 23I0547		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/18/23 17:29	D6888-09	
GS-091223-10 (A3I1040-03)				Matrix: WG		Batch: 23I0547		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/18/23 17:31	D6888-09	
GS-091223-11 (A3I1040-04)				Matrix: WG		Batch: 23I0547		
Available Cyanide	0.00628	0.00100	0.00200	mg/L	1	09/18/23 17:32	D6888-09	
GS-091223-12 (A3I1040-05)				Matrix: WG		Batch: 23I0547		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/18/23 17:34	D6888-09	
GS-091223-13 (A3I1040-06)				Matrix: WG		Batch: 23I0547		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/18/23 17:37	D6888-09	
GS-091223-14 (A3I1040-08)				Matrix: WG		Batch: 23I0547		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	09/18/23 17:47	D6888-09	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558****ANALYTICAL SAMPLE RESULTS****Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091223-08 (A3I1040-01)				Matrix: WG		Batch: 23I0573		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/19/23 19:29	D4282-02	
GS-091223-09 (A3I1040-02)				Matrix: WG		Batch: 23I0573		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/19/23 19:29	D4282-02	
GS-091223-10 (A3I1040-03)				Matrix: WG		Batch: 23I0573		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/19/23 19:31	D4282-02	
GS-091223-11 (A3I1040-04)				Matrix: WG		Batch: 23I0573		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/19/23 19:42	D4282-02	
GS-091223-12 (A3I1040-05)				Matrix: WG		Batch: 23I0573		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/19/23 19:43	D4282-02	
GS-091223-13 (A3I1040-06)				Matrix: WG		Batch: 23I0573		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/19/23 19:43	D4282-02	
GS-091223-14 (A3I1040-08)				Matrix: WG		Batch: 23I0573		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/19/23 19:43	D4282-02	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0768 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (23I0768-BLK1)			Prepared: 09/25/23 06:40		Analyzed: 09/25/23 17:22							
NWTPH-Dx												
Diesel	ND	100	200	ug/L	1	---	---	---	---	---	---	
Oil	ND	200	400	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x						
LCS (23I0768-BS1)			Prepared: 09/25/23 06:40		Analyzed: 09/25/23 17:43							
NWTPH-Dx												
Diesel	892	100	200	ug/L	1	1250	---	71	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 107 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (23I0768-BSD1)			Prepared: 09/25/23 06:40		Analyzed: 09/25/23 18:04							
NWTPH-Dx												
Diesel	861	100	200	ug/L	1	1250	---	69	36-132%	4	30%	
Surr: o-Terphenyl (Surr)		Recovery: 107 %		Limits: 50-150 %		Dilution: 1x						
Matrix Spike (23I0768-MS1)			Prepared: 09/25/23 06:40		Analyzed: 09/25/23 19:47							
QC Source Sample: Non-SDG (A3I0964-03)												
NWTPH-Dx												
Diesel	6390	95.2	190	ug/L	1	1190	5420	81	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x						
Matrix Spike Dup (23I0768-MSD1)			Prepared: 09/25/23 06:40		Analyzed: 09/25/23 20:08							
QC Source Sample: Non-SDG (A3I0964-03)												
Diesel	6800	95.2	190	ug/L	1	1190	5420	116	36-132%	6	30%	
Surr: o-Terphenyl (Surr)		Recovery: 106 %		Limits: 50-150 %		Dilution: 1x						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

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 23I0365 - EPA 5030C						Water						
Blank (23I0365-BLK1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 11:45							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 86 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			112 %	50-150 %			"					
LCS (23I0365-BS2)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 10:25							
NWTPH-Gx (MS)												
Gasoline Range Organics	568	50.0	100	ug/L	1	500	---	114	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 94 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			112 %	50-150 %			"					
Duplicate (23I0365-DUP1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 14:01							
QC Source Sample: Non-SDG (A3I1021-01)												
Gasoline Range Organics	59.5	50.0	100	ug/L	1	---	61.2	---	---	3	30%	J
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 88 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			113 %	50-150 %			"					
Duplicate (23I0365-DUP2)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 21:33							
QC Source Sample: GS-091223-14 (A3I1040-08)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	2500	5000	ug/L	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 89 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			114 %	50-150 %			"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0410 - EPA 5030C						Water						
Blank (23I0410-BLK1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 10:47							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		113 %		50-150 %		"						
LCS (23I0410-BS2)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 10:15							
NWTPH-Gx (MS)												
Gasoline Range Organics	596	50.0	100	ug/L	1	500	---	119	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		113 %		50-150 %		"						
Duplicate (23I0410-DUP1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 13:48							
QC Source Sample: Non-SDG (A3I1039-10)												
Gasoline Range Organics	57.7	50.0	100	ug/L	1	---	50.1	---	---	14	30%	J
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		117 %		50-150 %		"						
Duplicate (23I0410-DUP2)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 14:33							
QC Source Sample: Non-SDG (A3I1059-01)												
Gasoline Range Organics	ND	100	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		115 %		50-150 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 38 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
Blank (23I0365-BLK1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 11:45							
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	5.00	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	1.00	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	---	---	---	---	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 39 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
Blank (23I0365-BLK1)						Prepared: 09/13/23 09:00 Analyzed: 09/13/23 11:45						
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: 92 % Limits: 80-120 % Dilution: 1x												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 40 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 2310365 - EPA 5030C						Water						
Blank (2310365-BLK1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 11:45							
Surr: Toluene-d8 (Surr)		Recovery: 108 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
LCS (2310365-BS1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 10:03							
EPA 8260D												
Acetone	42.2	10.0	20.0	ug/L	1	40.0	---	105	80-120%	---	---	
Acrylonitrile	21.0	1.00	2.00	ug/L	1	20.0	---	105	80-120%	---	---	
Benzene	19.9	0.100	0.200	ug/L	1	20.0	---	99	80-120%	---	---	
Bromobenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Bromochloromethane	23.2	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
Bromodichloromethane	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Bromoform	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromomethane	22.9	5.00	5.00	ug/L	1	20.0	---	114	80-120%	---	---	
2-Butanone (MEK)	44.7	5.00	10.0	ug/L	1	40.0	---	112	80-120%	---	---	
n-Butylbenzene	22.7	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
sec-Butylbenzene	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
tert-Butylbenzene	21.9	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon disulfide	21.9	5.00	10.0	ug/L	1	20.0	---	109	80-120%	---	---	
Carbon tetrachloride	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Chlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Chloroethane	25.8	5.00	5.00	ug/L	1	20.0	---	129	80-120%	---	---	Q-56
Chloroform	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Chloromethane	12.9	5.00	5.00	ug/L	1	20.0	---	64	80-120%	---	---	Q-55
2-Chlorotoluene	20.5	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
4-Chlorotoluene	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Dibromochloromethane	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2-Dibromo-3-chloropropane	17.3	2.50	5.00	ug/L	1	20.0	---	86	80-120%	---	---	
1,2-Dibromoethane (EDB)	22.1	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
Dibromomethane	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
1,3-Dichlorobenzene	20.7	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,4-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Dichlorodifluoromethane	14.8	1.00	1.00	ug/L	1	20.0	---	74	80-120%	---	---	Q-55
1,1-Dichloroethane	22.9	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 41 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 2310365 - EPA 5030C						Water						
LCS (2310365-BS1)						Prepared: 09/13/23 09:00 Analyzed: 09/13/23 10:03						
1,2-Dichloroethane (EDC)	24.4	0.200	0.400	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
1,1-Dichloroethene	22.9	0.200	0.400	ug/L	1	20.0	---	114	80-120%	---	---	
cis-1,2-Dichloroethene	21.1	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
trans-1,2-Dichloroethene	22.3	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
1,2-Dichloropropane	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichloropropane	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
2,2-Dichloropropane	23.3	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
1,1-Dichloropropene	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
cis-1,3-Dichloropropene	21.9	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
trans-1,3-Dichloropropene	24.0	0.500	1.00	ug/L	1	20.0	---	120	80-120%	---	---	
Ethylbenzene	21.7	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
Hexachlorobutadiene	17.4	2.50	5.00	ug/L	1	20.0	---	87	80-120%	---	---	
2-Hexanone	40.8	5.00	10.0	ug/L	1	40.0	---	102	80-120%	---	---	
Isopropylbenzene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Isopropyltoluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Methylene chloride	21.1	5.00	10.0	ug/L	1	20.0	---	106	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	45.6	5.00	10.0	ug/L	1	40.0	---	114	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Naphthalene	16.6	2.50	5.00	ug/L	1	20.0	---	83	80-120%	---	---	
n-Propylbenzene	23.1	0.250	0.500	ug/L	1	20.0	---	116	80-120%	---	---	
Styrene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.5	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
1,1,2,2-Tetrachloroethane	22.5	0.250	0.500	ug/L	1	20.0	---	112	80-120%	---	---	
Tetrachloroethene (PCE)	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
Toluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,3-Trichlorobenzene	16.7	1.00	2.00	ug/L	1	20.0	---	84	80-120%	---	---	
1,2,4-Trichlorobenzene	16.5	1.00	2.00	ug/L	1	20.0	---	83	80-120%	---	---	
1,1,1-Trichloroethane	22.1	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
1,1,2-Trichloroethane	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Trichloroethene (TCE)	17.6	0.200	0.400	ug/L	1	20.0	---	88	80-120%	---	---	
Trichlorofluoromethane	22.5	1.00	2.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2,3-Trichloropropane	23.1	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
1,2,4-Trimethylbenzene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,3,5-Trimethylbenzene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 42 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
LCS (23I0365-BS1)						Prepared: 09/13/23 09:00 Analyzed: 09/13/23 10:03						
Vinyl chloride	18.5	0.100	0.200	ug/L	1	20.0	---	93	80-120%	---	---	
m,p-Xylene	45.5	0.500	1.00	ug/L	1	40.0	---	114	80-120%	---	---	
o-Xylene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)				Recovery: 92 %	Limits: 80-120 %	Dilution: 1x						
Toluene-d8 (Surr)				103 %	80-120 %	"						
4-Bromofluorobenzene (Surr)				92 %	80-120 %	"						

Duplicate (23I0365-DUP1)

Prepared: 09/13/23 09:00 Analyzed: 09/13/23 14:01

QC Source Sample: Non-SDG (A3I1021-01)

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	5.78	0.100	0.200	ug/L	1	---	5.81	---	---	0.5	30%
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
Duplicate (23I0365-DUP1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 14:01							
QC Source Sample: Non-SDG (A3I1021-01)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	17.4	0.200	0.400	ug/L	1	---	17.5	---	---	0.2	30%	
trans-1,2-Dichloroethene	0.210	0.200	0.400	ug/L	1	---	0.220	---	---	5	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	0.540	0.500	1.00	ug/L	1	---	0.520	---	---	4	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 44 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 2310365 - EPA 5030C						Water						
Duplicate (2310365-DUP1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 14:01							
QC Source Sample: Non-SDG (A311021-01)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		107 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

Duplicate (2310365-DUP2) Prepared: 09/13/23 09:00 Analyzed: 09/13/23 21:33

QC Source Sample: GS-091223-14 (A311040-08)

EPA 8260D

Acetone	ND	500	1000	ug/L	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
Benzene	ND	5.00	10.0	ug/L	50	---	ND	---	---	---	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	250	250	ug/L	50	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
Duplicate (23I0365-DUP2)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 21:33							
QC Source Sample: GS-091223-14 (A3I1040-08)												
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%	
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	50.0	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	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	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	125	250	ug/L	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	12.5	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%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
Duplicate (23I0365-DUP2)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 21:33							
QC Source Sample: GS-091223-14 (A3I1040-08)												
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	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	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%	
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	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	5.00	10.0	ug/L	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
o-Xylene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		108 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

Matrix Spike (23I0365-MS1)

Prepared: 09/13/23 09:00 Analyzed: 09/13/23 14:46

QC Source Sample: Non-SDG (A3I0964-03)

EPA 8260D												
Acetone	2110	500	1000	ug/L	50	2000	ND	106	39-160%	---	---	
Acrylonitrile	1120	50.0	100	ug/L	50	1000	ND	112	63-135%	---	---	
Benzene	1290	5.00	10.0	ug/L	50	1000	182	110	79-120%	---	---	
Bromobenzene	996	12.5	25.0	ug/L	50	1000	ND	100	80-120%	---	---	
Bromochloromethane	1280	25.0	50.0	ug/L	50	1000	ND	128	78-123%	---	---	Q-01
Bromodichloromethane	1170	25.0	50.0	ug/L	50	1000	ND	117	79-125%	---	---	
Bromoform	1080	25.0	50.0	ug/L	50	1000	ND	108	66-130%	---	---	
Bromomethane	1280	250	250	ug/L	50	1000	ND	128	53-141%	---	---	
2-Butanone (MEK)	2220	250	500	ug/L	50	2000	ND	111	56-143%	---	---	
n-Butylbenzene	1360	25.0	50.0	ug/L	50	1000	ND	136	75-128%	---	---	Q-01
sec-Butylbenzene	1260	25.0	50.0	ug/L	50	1000	ND	126	77-126%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
Matrix Spike (23I0365-MS1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 14:46							
QC Source Sample: Non-SDG (A3I0964-03)												
tert-Butylbenzene	1220	25.0	50.0	ug/L	50	1000	ND	122	78-124%	---	---	
Carbon disulfide	1200	250	500	ug/L	50	1000	ND	120	64-133%	---	---	
Carbon tetrachloride	1190	25.0	50.0	ug/L	50	1000	ND	119	72-136%	---	---	
Chlorobenzene	1100	12.5	25.0	ug/L	50	1000	ND	110	80-120%	---	---	
Chloroethane	1450	250	250	ug/L	50	1000	ND	145	60-138%	---	---	Q-54h
Chloroform	1160	25.0	50.0	ug/L	50	1000	ND	116	79-124%	---	---	
Chloromethane	749	250	250	ug/L	50	1000	ND	75	50-139%	---	---	Q-54i
2-Chlorotoluene	1100	25.0	50.0	ug/L	50	1000	ND	110	79-122%	---	---	
4-Chlorotoluene	1190	25.0	50.0	ug/L	50	1000	ND	119	78-122%	---	---	
Dibromochloromethane	1140	25.0	50.0	ug/L	50	1000	ND	114	74-126%	---	---	
1,2-Dibromo-3-chloropropane	956	125	250	ug/L	50	1000	ND	96	62-128%	---	---	
1,2-Dibromoethane (EDB)	1130	12.5	25.0	ug/L	50	1000	ND	113	77-121%	---	---	
Dibromomethane	1100	25.0	50.0	ug/L	50	1000	ND	110	79-123%	---	---	
1,2-Dichlorobenzene	1120	12.5	25.0	ug/L	50	1000	ND	112	80-120%	---	---	
1,3-Dichlorobenzene	1100	12.5	25.0	ug/L	50	1000	ND	110	80-120%	---	---	
1,4-Dichlorobenzene	1080	12.5	25.0	ug/L	50	1000	ND	108	79-120%	---	---	
Dichlorodifluoromethane	839	50.0	50.0	ug/L	50	1000	ND	84	32-152%	---	---	Q-54k
1,1-Dichloroethane	1250	10.0	20.0	ug/L	50	1000	ND	125	77-125%	---	---	
1,2-Dichloroethane (EDC)	1230	10.0	20.0	ug/L	50	1000	ND	123	73-128%	---	---	Q-54c
1,1-Dichloroethene	1270	10.0	20.0	ug/L	50	1000	ND	127	71-131%	---	---	
cis-1,2-Dichloroethene	1150	10.0	20.0	ug/L	50	1000	ND	115	78-123%	---	---	
trans-1,2-Dichloroethene	1220	10.0	20.0	ug/L	50	1000	ND	122	75-124%	---	---	
1,2-Dichloropropane	1140	12.5	25.0	ug/L	50	1000	ND	114	78-122%	---	---	
1,3-Dichloropropane	1140	25.0	50.0	ug/L	50	1000	ND	114	80-120%	---	---	
2,2-Dichloropropane	1230	25.0	50.0	ug/L	50	1000	ND	123	60-139%	---	---	
1,1-Dichloropropene	1120	25.0	50.0	ug/L	50	1000	ND	112	79-125%	---	---	
cis-1,3-Dichloropropene	1120	25.0	50.0	ug/L	50	1000	ND	112	75-124%	---	---	
trans-1,3-Dichloropropene	1220	25.0	50.0	ug/L	50	1000	ND	122	73-127%	---	---	
Ethylbenzene	1390	12.5	25.0	ug/L	50	1000	180	121	79-121%	---	---	
Hexachlorobutadiene	1000	125	250	ug/L	50	1000	ND	100	66-134%	---	---	
2-Hexanone	2050	250	500	ug/L	50	2000	ND	103	57-139%	---	---	
Isopropylbenzene	1270	25.0	50.0	ug/L	50	1000	66.5	121	72-131%	---	---	
4-Isopropyltoluene	1220	25.0	50.0	ug/L	50	1000	ND	122	77-127%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
Matrix Spike (23I0365-MS1)				Prepared: 09/13/23 09:00 Analyzed: 09/13/23 14:46								
QC Source Sample: Non-SDG (A3I0964-03)												
Methylene chloride	1080	250	500	ug/L	50	1000	ND	108	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	2280	250	500	ug/L	50	2000	ND	114	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	1050	25.0	50.0	ug/L	50	1000	ND	105	71-124%	---	---	
Naphthalene	1480	125	250	ug/L	50	1000	370	111	61-128%	---	---	
n-Propylbenzene	1300	12.5	25.0	ug/L	50	1000	54.0	124	76-126%	---	---	
Styrene	1100	25.0	50.0	ug/L	50	1000	ND	110	78-123%	---	---	
1,1,1,2-Tetrachloroethane	1050	10.0	20.0	ug/L	50	1000	ND	105	78-124%	---	---	
1,1,2,2-Tetrachloroethane	1170	12.5	25.0	ug/L	50	1000	ND	117	71-121%	---	---	
Tetrachloroethene (PCE)	1080	10.0	20.0	ug/L	50	1000	ND	108	74-129%	---	---	
Toluene	1160	25.0	50.0	ug/L	50	1000	ND	116	80-121%	---	---	
1,2,3-Trichlorobenzene	972	50.0	100	ug/L	50	1000	ND	97	69-129%	---	---	
1,2,4-Trichlorobenzene	969	50.0	100	ug/L	50	1000	ND	97	69-130%	---	---	
1,1,1-Trichloroethane	1180	10.0	20.0	ug/L	50	1000	ND	118	74-131%	---	---	
1,1,2-Trichloroethane	1120	12.5	25.0	ug/L	50	1000	ND	112	80-120%	---	---	
Trichloroethene (TCE)	968	10.0	20.0	ug/L	50	1000	ND	97	79-123%	---	---	
Trichlorofluoromethane	1240	50.0	100	ug/L	50	1000	ND	124	65-141%	---	---	
1,2,3-Trichloropropane	1140	25.0	50.0	ug/L	50	1000	ND	114	73-122%	---	---	
1,2,4-Trimethylbenzene	1240	25.0	50.0	ug/L	50	1000	37.0	120	76-124%	---	---	
1,3,5-Trimethylbenzene	1190	25.0	50.0	ug/L	50	1000	ND	119	75-124%	---	---	
Vinyl chloride	1120	5.00	10.0	ug/L	50	1000	ND	112	58-137%	---	---	
m,p-Xylene	2460	25.0	50.0	ug/L	50	2000	32.0	121	80-121%	---	---	
o-Xylene	1190	12.5	25.0	ug/L	50	1000	53.5	113	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"						

Matrix Spike Dup (23I0365-MSD1)

Prepared: 09/13/23 09:00 Analyzed: 09/13/23 15:09

QC Source Sample: Non-SDG (A3I0964-03)

Acetone	2170	500	1000	ug/L	50	2000	ND	108	39-160%	3	30%	
Acrylonitrile	1140	50.0	100	ug/L	50	1000	ND	114	63-135%	2	30%	
Benzene	1320	5.00	10.0	ug/L	50	1000	182	114	79-120%	3	30%	
Bromobenzene	1050	12.5	25.0	ug/L	50	1000	ND	105	80-120%	5	30%	
Bromochloromethane	1270	25.0	50.0	ug/L	50	1000	ND	127	78-123%	0.7	30%	Q-01

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C							Water					
Matrix Spike Dup (23I0365-MSD1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 15:09							
QC Source Sample: Non-SDG (A3I0964-03)												
Bromodichloromethane	1200	25.0	50.0	ug/L	50	1000	ND	120	79-125%	3	30%	
Bromoform	1140	25.0	50.0	ug/L	50	1000	ND	114	66-130%	6	30%	
Bromomethane	1380	250	250	ug/L	50	1000	ND	138	53-141%	8	30%	
2-Butanone (MEK)	2360	250	500	ug/L	50	2000	ND	118	56-143%	6	30%	
n-Butylbenzene	1410	25.0	50.0	ug/L	50	1000	ND	141	75-128%	4	30%	Q-01
sec-Butylbenzene	1280	25.0	50.0	ug/L	50	1000	ND	128	77-126%	2	30%	Q-01
tert-Butylbenzene	1260	25.0	50.0	ug/L	50	1000	ND	126	78-124%	3	30%	Q-01
Carbon disulfide	1240	250	500	ug/L	50	1000	ND	124	64-133%	3	30%	
Carbon tetrachloride	1200	25.0	50.0	ug/L	50	1000	ND	120	72-136%	0.9	30%	
Chlorobenzene	1120	12.5	25.0	ug/L	50	1000	ND	112	80-120%	2	30%	
Chloroethane	1460	250	250	ug/L	50	1000	ND	146	60-138%	0.5	30%	Q-54h
Chloroform	1200	25.0	50.0	ug/L	50	1000	ND	120	79-124%	4	30%	
Chloromethane	807	250	250	ug/L	50	1000	ND	81	50-139%	7	30%	Q-54i
2-Chlorotoluene	1140	25.0	50.0	ug/L	50	1000	ND	114	79-122%	4	30%	
4-Chlorotoluene	1240	25.0	50.0	ug/L	50	1000	ND	124	78-122%	4	30%	Q-01
Dibromochloromethane	1150	25.0	50.0	ug/L	50	1000	ND	115	74-126%	2	30%	
1,2-Dibromo-3-chloropropane	927	125	250	ug/L	50	1000	ND	93	62-128%	3	30%	
1,2-Dibromoethane (EDB)	1140	12.5	25.0	ug/L	50	1000	ND	114	77-121%	1	30%	
Dibromomethane	1100	25.0	50.0	ug/L	50	1000	ND	110	79-123%	0	30%	
1,2-Dichlorobenzene	1140	12.5	25.0	ug/L	50	1000	ND	114	80-120%	2	30%	
1,3-Dichlorobenzene	1130	12.5	25.0	ug/L	50	1000	ND	113	80-120%	2	30%	
1,4-Dichlorobenzene	1110	12.5	25.0	ug/L	50	1000	ND	111	79-120%	2	30%	
Dichlorodifluoromethane	862	50.0	50.0	ug/L	50	1000	ND	86	32-152%	3	30%	Q-54k
1,1-Dichloroethane	1260	10.0	20.0	ug/L	50	1000	ND	126	77-125%	0.8	30%	Q-01
1,2-Dichloroethane (EDC)	1260	10.0	20.0	ug/L	50	1000	ND	126	73-128%	2	30%	Q-54c
1,1-Dichloroethene	1320	10.0	20.0	ug/L	50	1000	ND	132	71-131%	4	30%	Q-01
cis-1,2-Dichloroethene	1200	10.0	20.0	ug/L	50	1000	ND	120	78-123%	4	30%	
trans-1,2-Dichloroethene	1280	10.0	20.0	ug/L	50	1000	ND	128	75-124%	6	30%	Q-01
1,2-Dichloropropane	1170	12.5	25.0	ug/L	50	1000	ND	117	78-122%	3	30%	
1,3-Dichloropropane	1180	25.0	50.0	ug/L	50	1000	ND	118	80-120%	3	30%	
2,2-Dichloropropane	1240	25.0	50.0	ug/L	50	1000	ND	124	60-139%	0.2	30%	
1,1-Dichloropropene	1170	25.0	50.0	ug/L	50	1000	ND	117	79-125%	4	30%	
cis-1,3-Dichloropropene	1160	25.0	50.0	ug/L	50	1000	ND	116	75-124%	4	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 50 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0365 - EPA 5030C						Water						
Matrix Spike Dup (23I0365-MSD1)			Prepared: 09/13/23 09:00		Analyzed: 09/13/23 15:09							
QC Source Sample: Non-SDG (A3I0964-03)												
trans-1,3-Dichloropropene	1260	25.0	50.0	ug/L	50	1000	ND	126	73-127%	3	30%	Q-01
Ethylbenzene	1400	12.5	25.0	ug/L	50	1000	180	122	79-121%	0.8	30%	
Hexachlorobutadiene	1040	125	250	ug/L	50	1000	ND	104	66-134%	4	30%	
2-Hexanone	2080	250	500	ug/L	50	2000	ND	104	57-139%	1	30%	
Isopropylbenzene	1280	25.0	50.0	ug/L	50	1000	66.5	121	72-131%	0.4	30%	Q-01
4-Isopropyltoluene	1260	25.0	50.0	ug/L	50	1000	ND	126	77-127%	3	30%	
Methylene chloride	1120	250	500	ug/L	50	1000	ND	112	74-124%	4	30%	
4-Methyl-2-pentanone (MiBK)	2320	250	500	ug/L	50	2000	ND	116	67-130%	2	30%	
Methyl tert-butyl ether (MTBE)	1090	25.0	50.0	ug/L	50	1000	ND	109	71-124%	4	30%	Q-01
Naphthalene	1530	125	250	ug/L	50	1000	370	116	61-128%	4	30%	
n-Propylbenzene	1340	12.5	25.0	ug/L	50	1000	54.0	129	76-126%	3	30%	
Styrene	1130	25.0	50.0	ug/L	50	1000	ND	113	78-123%	3	30%	
1,1,1,2-Tetrachloroethane	1060	10.0	20.0	ug/L	50	1000	ND	106	78-124%	0.6	30%	Q-01
1,1,2,2-Tetrachloroethane	1180	12.5	25.0	ug/L	50	1000	ND	118	71-121%	0.6	30%	
Tetrachloroethene (PCE)	1070	10.0	20.0	ug/L	50	1000	ND	107	74-129%	0.6	30%	
Toluene	1180	25.0	50.0	ug/L	50	1000	ND	118	80-121%	2	30%	
1,2,3-Trichlorobenzene	995	50.0	100	ug/L	50	1000	ND	100	69-129%	2	30%	Q-01
1,2,4-Trichlorobenzene	990	50.0	100	ug/L	50	1000	ND	99	69-130%	2	30%	
1,1,1-Trichloroethane	1210	10.0	20.0	ug/L	50	1000	ND	121	74-131%	2	30%	
1,1,2-Trichloroethane	1140	12.5	25.0	ug/L	50	1000	ND	114	80-120%	2	30%	
Trichloroethene (TCE)	994	10.0	20.0	ug/L	50	1000	ND	99	79-123%	3	30%	Q-01
Trichlorofluoromethane	1240	50.0	100	ug/L	50	1000	ND	124	65-141%	0.3	30%	
1,2,3-Trichloropropane	1140	25.0	50.0	ug/L	50	1000	ND	114	73-122%	0.2	30%	
1,2,4-Trimethylbenzene	1280	25.0	50.0	ug/L	50	1000	37.0	124	76-124%	3	30%	
1,3,5-Trimethylbenzene	1240	25.0	50.0	ug/L	50	1000	ND	124	75-124%	4	30%	Q-01
Vinyl chloride	1200	5.00	10.0	ug/L	50	1000	ND	120	58-137%	7	30%	
m,p-Xylene	2500	25.0	50.0	ug/L	50	2000	32.0	124	80-121%	2	30%	
o-Xylene	1210	12.5	25.0	ug/L	50	1000	53.5	116	78-122%	2	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 51 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0410 - EPA 5030C						Water						
Blank (23I0410-BLK1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 10:47							
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	---	---	---	---	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0410 - EPA 5030C						Water						
Blank (23I0410-BLK1)						Prepared: 09/14/23 09:00 Analyzed: 09/14/23 10:47						
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	2.00	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: 89 % Limits: 80-120 % Dilution: 1x												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 53 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0410 - EPA 5030C						Water						
Blank (23I0410-BLK1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 10:47							
Surr: Toluene-d8 (Surr)		Recovery: 107 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
LCS (23I0410-BS1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 09:52							
EPA 8260D												
Acetone	56.8	10.0	20.0	ug/L	1	40.0	---	142	80-120%	---	---	Q-56
Acrylonitrile	21.2	1.00	2.00	ug/L	1	20.0	---	106	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	24.3	0.500	1.00	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
Bromodichloromethane	22.7	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Bromoform	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Bromomethane	26.8	5.00	5.00	ug/L	1	20.0	---	134	80-120%	---	---	Q-56
2-Butanone (MEK)	47.9	5.00	10.0	ug/L	1	40.0	---	120	80-120%	---	---	
n-Butylbenzene	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
sec-Butylbenzene	23.0	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
tert-Butylbenzene	22.9	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Carbon disulfide	23.1	5.00	10.0	ug/L	1	20.0	---	116	80-120%	---	---	
Carbon tetrachloride	22.7	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Chlorobenzene	20.9	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Chloroethane	29.9	5.00	5.00	ug/L	1	20.0	---	149	80-120%	---	---	Q-56
Chloroform	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Chloromethane	17.6	2.50	5.00	ug/L	1	20.0	---	88	80-120%	---	---	
2-Chlorotoluene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
4-Chlorotoluene	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
Dibromochloromethane	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2-Dibromo-3-chloropropane	15.9	2.50	5.00	ug/L	1	20.0	---	80	80-120%	---	---	
1,2-Dibromoethane (EDB)	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Dibromomethane	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
1,3-Dichlorobenzene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
1,4-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Dichlorodifluoromethane	30.2	0.500	1.00	ug/L	1	20.0	---	151	80-120%	---	---	Q-56
1,1-Dichloroethane	23.3	0.200	0.400	ug/L	1	20.0	---	116	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 54 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 2310410 - EPA 5030C						Water						
LCS (2310410-BS1)						Prepared: 09/14/23 09:00 Analyzed: 09/14/23 09:52						
1,2-Dichloroethane (EDC)	24.8	0.200	0.400	ug/L	1	20.0	---	124	80-120%	---	---	Q-56
1,1-Dichloroethene	23.9	0.200	0.400	ug/L	1	20.0	---	120	80-120%	---	---	
cis-1,2-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
trans-1,2-Dichloroethene	23.0	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
1,2-Dichloropropane	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
1,3-Dichloropropane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
2,2-Dichloropropane	24.0	0.500	1.00	ug/L	1	20.0	---	120	80-120%	---	---	
1,1-Dichloropropene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
cis-1,3-Dichloropropene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
trans-1,3-Dichloropropene	24.5	0.500	1.00	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
Ethylbenzene	22.3	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
Hexachlorobutadiene	18.1	2.50	5.00	ug/L	1	20.0	---	90	80-120%	---	---	
2-Hexanone	41.5	5.00	10.0	ug/L	1	40.0	---	104	80-120%	---	---	
Isopropylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
4-Isopropyltoluene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Methylene chloride	20.4	5.00	10.0	ug/L	1	20.0	---	102	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	45.3	5.00	10.0	ug/L	1	40.0	---	113	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.5	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Naphthalene	16.1	2.50	5.00	ug/L	1	20.0	---	81	80-120%	---	---	
n-Propylbenzene	23.6	0.250	0.500	ug/L	1	20.0	---	118	80-120%	---	---	
Styrene	21.3	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,1,2-Tetrachloroethane	21.1	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,2,2-Tetrachloroethane	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Tetrachloroethene (PCE)	19.9	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
Toluene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2,3-Trichlorobenzene	16.4	1.00	2.00	ug/L	1	20.0	---	82	80-120%	---	---	
1,2,4-Trichlorobenzene	15.7	2.00	2.00	ug/L	1	20.0	---	78	80-120%	---	---	Q-55
1,1,1-Trichloroethane	22.6	0.200	0.400	ug/L	1	20.0	---	113	80-120%	---	---	
1,1,2-Trichloroethane	21.6	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Trichloroethene (TCE)	17.7	0.200	0.400	ug/L	1	20.0	---	88	80-120%	---	---	
Trichlorofluoromethane	26.0	1.00	2.00	ug/L	1	20.0	---	130	80-120%	---	---	Q-56
1,2,3-Trichloropropane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2,4-Trimethylbenzene	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,3,5-Trimethylbenzene	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 55 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0410 - EPA 5030C						Water						
LCS (23I0410-BS1)						Prepared: 09/14/23 09:00 Analyzed: 09/14/23 09:52						
Vinyl chloride	23.8	0.100	0.200	ug/L	1	20.0	---	119	80-120%	---	---	
m,p-Xylene	46.8	0.500	1.00	ug/L	1	40.0	---	117	80-120%	---	---	
o-Xylene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)				Recovery: 90 %	Limits: 80-120 %	Dilution: 1x						
Toluene-d8 (Surr)				103 %	80-120 %	"						
4-Bromofluorobenzene (Surr)				91 %	80-120 %	"						

Duplicate (23I0410-DUP1)

Prepared: 09/14/23 09:00 Analyzed: 09/14/23 13:48

QC Source Sample: Non-SDG (A3I1039-10)

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	0.160	0.100	0.200	ug/L	1	---	0.150	---	---	6	30%	J
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 2310410 - EPA 5030C						Water						
Duplicate (2310410-DUP1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 13:48							
QC Source Sample: Non-SDG (A311039-10)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	0.300	0.250	0.500	ug/L	1	---	0.280	---	---	7	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	10.0	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	2.61	0.500	1.00	ug/L	1	---	2.50	---	---	4	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 57 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 23I0410 - EPA 5030C						Water						
Duplicate (23I0410-DUP1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 13:48							
QC Source Sample: Non-SDG (A3I1039-10)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		108 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						

Duplicate (2310410-DUP2) Prepared: 09/14/23 09:00 Analyzed: 09/14/23 14:33

QC Source Sample: Non-SDG (A311059-01)

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558****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 23I0410 - EPA 5030C						Water						
Duplicate (23I0410-DUP2)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 14:33							
QC Source Sample: Non-SDG (A3I1059-01)												
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

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 23I0410 - EPA 5030C						Water						
Duplicate (23I0410-DUP2)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 14:33							
QC Source Sample: Non-SDG (A3I1059-01)												
Tetrachloroethene (PCE)	1.36	0.200	0.400	ug/L	1	---	1.11	---	---	20	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	1.72	0.200	0.400	ug/L	1	---	1.63	---	---	5	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		109 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

Matrix Spike (2310410-MS1)

Prepared: 09/14/23 09:00 Analyzed: 09/14/23 15:41

QC Source Sample: Non-SDG (A311059-03)

EPA 8260D

Acetone	46.2	10.0	20.0	ug/L	1	40.0	ND	116	39-160%	---	---	Q-54d
Acrylonitrile	22.3	1.00	2.00	ug/L	1	20.0	ND	112	63-135%	---	---	
Benzene	21.7	0.100	0.200	ug/L	1	20.0	ND	109	79-120%	---	---	
Bromobenzene	19.7	0.250	0.500	ug/L	1	20.0	ND	99	80-120%	---	---	
Bromochloromethane	26.7	0.500	1.00	ug/L	1	20.0	ND	134	78-123%	---	---	Q-54
Bromodichloromethane	23.6	0.500	1.00	ug/L	1	20.0	ND	118	79-125%	---	---	
Bromoform	21.8	0.500	1.00	ug/L	1	20.0	ND	109	66-130%	---	---	
Bromomethane	31.5	5.00	5.00	ug/L	1	20.0	ND	157	53-141%	---	---	Q-54b
2-Butanone (MEK)	45.3	5.00	10.0	ug/L	1	40.0	ND	113	56-143%	---	---	
n-Butylbenzene	24.6	0.500	1.00	ug/L	1	20.0	ND	123	75-128%	---	---	
sec-Butylbenzene	24.6	0.500	1.00	ug/L	1	20.0	ND	123	77-126%	---	---	
tert-Butylbenzene	23.7	0.500	1.00	ug/L	1	20.0	ND	118	78-124%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 60 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0410 - EPA 5030C						Water						
Matrix Spike (23I0410-MS1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 15:41							
QC Source Sample: Non-SDG (A3I1059-03)												
Carbon disulfide	25.6	5.00	10.0	ug/L	1	20.0	ND	128	64-133%	---	---	
Carbon tetrachloride	24.0	0.500	1.00	ug/L	1	20.0	ND	120	72-136%	---	---	
Chlorobenzene	21.8	0.250	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
Chloroethane	35.0	5.00	5.00	ug/L	1	20.0	ND	175	60-138%	---	---	Q-54e
Chloroform	23.4	0.500	1.00	ug/L	1	20.0	ND	117	79-124%	---	---	
Chloromethane	20.2	2.50	5.00	ug/L	1	20.0	ND	101	50-139%	---	---	
2-Chlorotoluene	21.5	0.500	1.00	ug/L	1	20.0	ND	108	79-122%	---	---	
4-Chlorotoluene	24.0	0.500	1.00	ug/L	1	20.0	ND	120	78-122%	---	---	
Dibromochloromethane	22.9	0.500	1.00	ug/L	1	20.0	ND	115	74-126%	---	---	
1,2-Dibromo-3-chloropropane	16.8	2.50	5.00	ug/L	1	20.0	ND	84	62-128%	---	---	
1,2-Dibromoethane (EDB)	22.6	0.250	0.500	ug/L	1	20.0	ND	113	77-121%	---	---	
Dibromomethane	22.5	0.500	1.00	ug/L	1	20.0	ND	112	79-123%	---	---	
1,2-Dichlorobenzene	21.1	0.250	0.500	ug/L	1	20.0	ND	106	80-120%	---	---	
1,3-Dichlorobenzene	21.6	0.250	0.500	ug/L	1	20.0	ND	108	80-120%	---	---	
1,4-Dichlorobenzene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	79-120%	---	---	
Dichlorodifluoromethane	32.1	0.500	1.00	ug/L	1	20.0	ND	160	32-152%	---	---	Q-54f
1,1-Dichloroethane	25.2	0.200	0.400	ug/L	1	20.0	ND	126	77-125%	---	---	Q-01
1,2-Dichloroethane (EDC)	25.6	0.200	0.400	ug/L	1	20.0	ND	128	73-128%	---	---	Q-54g
1,1-Dichloroethene	26.0	0.200	0.400	ug/L	1	20.0	ND	130	71-131%	---	---	
cis-1,2-Dichloroethene	23.1	0.200	0.400	ug/L	1	20.0	ND	116	78-123%	---	---	
trans-1,2-Dichloroethene	24.8	0.200	0.400	ug/L	1	20.0	ND	124	75-124%	---	---	
1,2-Dichloropropane	23.3	0.250	0.500	ug/L	1	20.0	ND	116	78-122%	---	---	
1,3-Dichloropropane	22.9	0.500	1.00	ug/L	1	20.0	ND	115	80-120%	---	---	
2,2-Dichloropropane	24.6	0.500	1.00	ug/L	1	20.0	ND	123	60-139%	---	---	
1,1-Dichloropropene	22.3	0.500	1.00	ug/L	1	20.0	ND	111	79-125%	---	---	
cis-1,3-Dichloropropene	21.5	0.500	1.00	ug/L	1	20.0	ND	107	75-124%	---	---	
trans-1,3-Dichloropropene	25.0	0.500	1.00	ug/L	1	20.0	ND	125	73-127%	---	---	Q-54c
Ethylbenzene	23.6	0.250	0.500	ug/L	1	20.0	ND	118	79-121%	---	---	
Hexachlorobutadiene	18.0	2.50	5.00	ug/L	1	20.0	ND	90	66-134%	---	---	
2-Hexanone	41.9	5.00	10.0	ug/L	1	40.0	ND	105	57-139%	---	---	
Isopropylbenzene	23.3	0.500	1.00	ug/L	1	20.0	ND	116	72-131%	---	---	
4-Isopropyltoluene	23.1	0.500	1.00	ug/L	1	20.0	ND	116	77-127%	---	---	
Methylene chloride	20.9	5.00	10.0	ug/L	1	20.0	ND	104	74-124%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 61 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 23I0410 - EPA 5030C												
Water												
Matrix Spike (23I0410-MS1)			Prepared: 09/14/23 09:00		Analyzed: 09/14/23 15:41							
QC Source Sample: Non-SDG (A3I1059-03)												
4-Methyl-2-pentanone (MiBK)	47.6	5.00	10.0	ug/L	1	40.0	ND	119	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	21.4	0.500	1.00	ug/L	1	20.0	ND	107	71-124%	---	---	
Naphthalene	16.3	2.50	5.00	ug/L	1	20.0	ND	81	61-128%	---	---	
n-Propylbenzene	25.0	0.250	0.500	ug/L	1	20.0	ND	125	76-126%	---	---	
Styrene	20.8	0.500	1.00	ug/L	1	20.0	ND	104	78-123%	---	---	
1,1,1,2-Tetrachloroethane	21.6	0.200	0.400	ug/L	1	20.0	ND	108	78-124%	---	---	
1,1,2,2-Tetrachloroethane	23.4	0.250	0.500	ug/L	1	20.0	ND	117	71-121%	---	---	
Tetrachloroethene (PCE)	20.8	0.200	0.400	ug/L	1	20.0	ND	104	74-129%	---	---	
Toluene	23.4	0.500	1.00	ug/L	1	20.0	ND	117	80-121%	---	---	
1,2,3-Trichlorobenzene	16.7	1.00	2.00	ug/L	1	20.0	ND	84	69-129%	---	---	
1,2,4-Trichlorobenzene	16.0	2.00	2.00	ug/L	1	20.0	ND	80	69-130%	---	---	Q-54j
1,1,1-Trichloroethane	24.1	0.200	0.400	ug/L	1	20.0	ND	121	74-131%	---	---	
1,1,2-Trichloroethane	22.7	0.250	0.500	ug/L	1	20.0	ND	113	80-120%	---	---	
Trichloroethene (TCE)	19.0	0.200	0.400	ug/L	1	20.0	ND	95	79-123%	---	---	
Trichlorofluoromethane	27.8	1.00	2.00	ug/L	1	20.0	ND	139	65-141%	---	---	Q-54a
1,2,3-Trichloropropane	23.3	0.500	1.00	ug/L	1	20.0	ND	117	73-122%	---	---	
1,2,4-Trimethylbenzene	22.6	0.500	1.00	ug/L	1	20.0	ND	113	76-124%	---	---	
1,3,5-Trimethylbenzene	23.9	0.500	1.00	ug/L	1	20.0	ND	119	75-124%	---	---	
Vinyl chloride	27.3	0.100	0.200	ug/L	1	20.0	ND	137	58-137%	---	---	
m,p-Xylene	49.5	0.500	1.00	ug/L	1	40.0	ND	124	80-121%	---	---	Q-01
o-Xylene	21.8	0.250	0.500	ug/L	1	20.0	ND	109	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 91 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		90 %		80-120 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 62 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310546 - EPA 5030C						Water						
Blank (2310546-BLK1)			Prepared: 09/18/23 14:39 Analyzed: 09/18/23 17:18									
EPA 8260D SIM												
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
LCS (2310546-BS1)						Prepared: 09/18/23 14:39 Analyzed: 09/18/23 16:22						
EPA 8260D SIM												
1,1-Dichloroethene	0.203	0.0100	0.0200	ug/L	1	0.200	---	102	80-120%	---	---	
cis-1,2-Dichloroethene	0.196	0.0100	0.0200	ug/L	1	0.200	---	98	80-120%	---	---	
trans-1,2-Dichloroethene	0.199	0.0100	0.0200	ug/L	1	0.200	---	100	80-120%	---	---	
Trichloroethene (TCE)	0.202	0.0100	0.0200	ug/L	1	0.200	---	101	80-120%	---	---	
Vinyl chloride	0.199	0.0100	0.0200	ug/L	1	0.200	---	100	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
Duplicate (2310546-DUP1)						Prepared: 09/18/23 14:39 Analyzed: 09/19/23 00:01						
QC Source Sample: GS-091223-10 (A311040-03)												
EPA 8260D SIM												
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		118 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 63 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0546 - EPA 5030C						Water						
Matrix Spike (23I0546-MS1)				Prepared: 09/18/23 14:39 Analyzed: 09/18/23 18:38								
QC Source Sample: Non-SDG (A3I0964-03)												
EPA 8260D SIM												
1,1-Dichloroethene	5.97	0.250	0.500	ug/L	25	5.00	ND	119	71-131%	---	---	
cis-1,2-Dichloroethene	5.68	0.250	0.500	ug/L	25	5.00	ND	107	78-123%	---	---	
trans-1,2-Dichloroethene	5.73	0.250	0.500	ug/L	25	5.00	ND	115	75-124%	---	---	
Trichloroethene (TCE)	5.41	0.250	0.500	ug/L	25	5.00	ND	108	79-123%	---	---	
Vinyl chloride	6.25	0.250	0.500	ug/L	25	5.00	ND	125	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						
Matrix Spike Dup (23I0546-MSD1)				Prepared: 09/18/23 14:39 Analyzed: 09/18/23 19:05								
QC Source Sample: Non-SDG (A3I0964-03)												
1,1-Dichloroethene	4.36	0.250	0.500	ug/L	25	5.00	ND	87	71-131%	31	30%	Q-01
cis-1,2-Dichloroethene	4.12	0.250	0.500	ug/L	25	5.00	ND	76	78-123%	32	30%	Q-01
trans-1,2-Dichloroethene	4.12	0.250	0.500	ug/L	25	5.00	ND	82	75-124%	33	30%	Q-01
Trichloroethene (TCE)	3.91	0.250	0.500	ug/L	25	5.00	ND	78	79-123%	32	30%	Q-01
Vinyl chloride	4.46	0.250	0.500	ug/L	25	5.00	ND	89	58-137%	33	30%	Q-01
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0360 - EPA 3511 (Bottle Extraction)						Water						
Blank (23I0360-BLK1)			Prepared: 09/13/23 08:01		Analyzed: 09/13/23 09:47							
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: 101 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		111 %		80-132 %		"						

LCS (23I0360-BS1)

Prepared: 09/13/23 08:01 Analyzed: 09/13/23 10:19

EPA 8270E LVI

Acenaphthene	1.68	0.0160	0.0320	ug/L	1	1.60	---	105	80-120%	---	---
Acenaphthylene	1.74	0.0160	0.0320	ug/L	1	1.60	---	109	80-124%	---	---
Anthracene	1.76	0.0160	0.0320	ug/L	1	1.60	---	110	80-123%	---	---
Benz(a)anthracene	1.81	0.00800	0.0160	ug/L	1	1.60	---	113	80-122%	---	---
Benzo(a)pyrene	1.84	0.00800	0.0160	ug/L	1	1.60	---	115	80-129%	---	---
Benzo(b+j)fluoranthene(s)	1.76	0.00800	0.0160	ug/L	1	1.60	---	110	80-124%	---	---
Benzo(k)fluoranthene	1.85	0.00800	0.0160	ug/L	1	1.60	---	115	80-125%	---	---
Benzo(g,h,i)perylene	1.73	0.0160	0.0320	ug/L	1	1.60	---	108	80-120%	---	---

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 2310360 - EPA 3511 (Bottle Extraction)						Water						
LCS (2310360-BS1)			Prepared: 09/13/23 08:01		Analyzed: 09/13/23 10:19							
Chrysene	1.74	0.00800	0.0160	ug/L	1	1.60	---	108	80-120%	---	---	
Dibenz(a,h)anthracene	1.73	0.00800	0.0160	ug/L	1	1.60	---	108	80-120%	---	---	
Fluoranthene	1.90	0.0160	0.0320	ug/L	1	1.60	---	119	80-126%	---	---	
Fluorene	1.81	0.0160	0.0320	ug/L	1	1.60	---	113	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.73	0.00800	0.0160	ug/L	1	1.60	---	108	80-121%	---	---	
1-Methylnaphthalene	1.68	0.0320	0.0640	ug/L	1	1.60	---	105	53-148%	---	---	
2-Methylnaphthalene	1.65	0.0320	0.0640	ug/L	1	1.60	---	103	48-150%	---	---	
Naphthalene	1.69	0.0320	0.0640	ug/L	1	1.60	---	106	78-120%	---	---	
Phenanthrene	1.70	0.0320	0.0640	ug/L	1	1.60	---	107	80-120%	---	---	
Pyrene	1.90	0.0160	0.0320	ug/L	1	1.60	---	119	80-125%	---	---	
Carbazole	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	65-141%	---	---	
Dibenzofuran	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 97 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		112 %		80-132 %		"						

LCS Dup (2310360-BSD1)				Prepared: 09/13/23 08:01 Analyzed: 09/13/23 10:52								Q-19
EPA 8270E LVI												
Acenaphthene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	80-120%	1	30%	
Acenaphthylene	1.75	0.0160	0.0320	ug/L	1	1.60	---	109	80-124%	0.3	30%	
Anthracene	1.76	0.0160	0.0320	ug/L	1	1.60	---	110	80-123%	0.3	30%	
Benz(a)anthracene	1.84	0.00800	0.0160	ug/L	1	1.60	---	115	80-122%	1	30%	
Benzo(a)pyrene	1.85	0.00800	0.0160	ug/L	1	1.60	---	116	80-129%	1	30%	
Benzo(b+j)fluoranthene(s)	1.78	0.00800	0.0160	ug/L	1	1.60	---	111	80-124%	1	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	1.74	0.0160	0.0320	ug/L	1	1.60	---	109	80-120%	0.3	30%	
Chrysene	1.74	0.00800	0.0160	ug/L	1	1.60	---	109	80-120%	0.1	30%	
Dibenz(a,h)anthracene	1.74	0.00800	0.0160	ug/L	1	1.60	---	109	80-120%	0.7	30%	
Fluoranthene	1.90	0.0160	0.0320	ug/L	1	1.60	---	119	80-126%	0.06	30%	
Fluorene	1.81	0.0160	0.0320	ug/L	1	1.60	---	113	77-127%	0.4	30%	
Indeno(1,2,3-cd)pyrene	1.74	0.00800	0.0160	ug/L	1	1.60	---	109	80-121%	0.4	30%	
1-Methylnaphthalene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	53-148%	2	30%	
2-Methylnaphthalene	1.66	0.0320	0.0640	ug/L	1	1.60	---	104	48-150%	0.3	30%	
Naphthalene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	78-120%	1	30%	
Phenanthrene	1.72	0.0320	0.0640	ug/L	1	1.60	---	107	80-120%	0.7	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0360 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (23I0360-BSD1)			Prepared: 09/13/23 08:01		Analyzed: 09/13/23 10:52		Q-19					
Pyrene	1.91	0.0160	0.0320	ug/L	1	1.60	---	120	80-125%	0.9	30%	
Carbazole	1.75	0.0160	0.0320	ug/L	1	1.60	---	110	65-141%	2	30%	
Dibenzofuran	1.72	0.0160	0.0320	ug/L	1	1.60	---	107	76-121%	0.5	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 98 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %		"						
Matrix Spike (23I0360-MS1)			Prepared: 09/13/23 08:01		Analyzed: 09/13/23 11:57							
QC Source Sample: Non-SDG (A3I0964-03)												
EPA 8270E LVI												
Acenaphthene	194	0.0215	0.0430	ug/L	1	2.15	188	282	80-120%	---	---	Q-03, E
Acenaphthylene	5.64	0.0215	0.0430	ug/L	1	2.15	ND	75	80-124%	---	---	Q-02
Anthracene	11.0	4.30	4.30	ug/L	1	2.15	8.70	108	80-123%	---	---	
Benz(a)anthracene	2.62	0.0108	0.0215	ug/L	1	2.15	0.0291	120	80-122%	---	---	
Benzo(a)pyrene	2.64	0.0108	0.0215	ug/L	1	2.15	0.0114	122	80-129%	---	---	
Benzo(b+j)fluoranthene(s)	2.49	0.0108	0.0215	ug/L	1	2.15	ND	116	80-124%	---	---	
Benzo(k)fluoranthene	2.60	0.0108	0.0215	ug/L	1	2.15	0.0135	120	80-125%	---	---	
Benzo(g,h,i)perylene	2.25	0.0215	0.0430	ug/L	1	2.15	ND	105	80-120%	---	---	
Chrysene	2.36	0.0108	0.0215	ug/L	1	2.15	0.0265	109	80-120%	---	---	
Dibenz(a,h)anthracene	2.33	0.0108	0.0215	ug/L	1	2.15	0.0140	108	80-120%	---	---	
Fluoranthene	5.58	0.0215	0.0430	ug/L	1	2.15	2.99	120	80-126%	---	---	
Fluorene	78.1	0.0215	0.0430	ug/L	1	2.15	71.1	326	77-127%	---	---	Q-03, E
Indeno(1,2,3-cd)pyrene	2.37	0.0108	0.0215	ug/L	1	2.15	ND	110	80-121%	---	---	
1-Methylnaphthalene	338	0.0430	0.0860	ug/L	1	2.15	306	1490	53-148%	---	---	E, Q-03
2-Methylnaphthalene	381	0.0430	0.0860	ug/L	1	2.15	350	1440	48-150%	---	---	Q-03, E
Naphthalene	352	0.0430	0.0860	ug/L	1	2.15	362	436	78-120%	---	---	Q-03, E
Phenanthrene	71.6	0.0430	0.0860	ug/L	1	2.15	68.9	124	80-120%	---	---	E, Q-03
Pyrene	5.21	0.0215	0.0430	ug/L	1	2.15	2.64	120	80-125%	---	---	
Carbazole	199	0.0215	0.0430	ug/L	1	2.15	189	453	65-141%	---	---	Q-03, E
Dibenzofuran	21.1	0.0215	0.0430	ug/L	1	2.15	18.9	100	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 89 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		120 %		80-132 %		"						

Matrix Spike Dup (23I0360-MSD1)

Prepared: 09/13/23 08:01 Analyzed: 09/13/23 12:29

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0360 - EPA 3511 (Bottle Extraction)						Water						
Matrix Spike Dup (23I0360-MSD1)			Prepared: 09/13/23 08:01		Analyzed: 09/13/23 12:29							
QC Source Sample: Non-SDG (A3I0964-03)												
Acenaphthene	182	0.0206	0.0413	ug/L	1	2.06	188	-302	80-120%	7	30%	Q-03, E
Acenaphthylene	5.23	4.13	4.13	ug/L	1	2.06	ND	254	80-124%	8	30%	Q-02
Anthracene	11.8	0.0206	0.0413	ug/L	1	2.06	8.70	151	80-123%	7	30%	Q-03
Benz(a)anthracene	2.50	0.0103	0.0206	ug/L	1	2.06	0.0291	120	80-122%	4	30%	
Benzo(a)pyrene	2.52	0.0103	0.0206	ug/L	1	2.06	0.0114	121	80-129%	5	30%	
Benzo(b+j)fluoranthene(s)	2.33	0.0103	0.0206	ug/L	1	2.06	0.0104	113	80-124%	6	30%	
Benzo(k)fluoranthene	2.47	0.0103	0.0206	ug/L	1	2.06	0.0135	119	80-125%	5	30%	
Benzo(g,h,i)perylene	2.10	0.0206	0.0413	ug/L	1	2.06	ND	102	80-120%	7	30%	
Chrysene	2.27	0.0103	0.0206	ug/L	1	2.06	0.0265	109	80-120%	4	30%	
Dibenz(a,h)anthracene	2.24	0.0103	0.0206	ug/L	1	2.06	0.0140	108	80-120%	4	30%	
Fluoranthene	5.66	0.0206	0.0413	ug/L	1	2.06	2.99	130	80-126%	1	30%	Q-03
Fluorene	75.8	0.0206	0.0413	ug/L	1	2.06	71.1	228	77-127%	3	30%	Q-03, E
Indeno(1,2,3-cd)pyrene	2.25	0.0103	0.0206	ug/L	1	2.06	ND	109	80-121%	5	30%	
1-Methylnaphthalene	256	0.0413	0.0825	ug/L	1	2.06	306	-2420	53-148%	28	30%	E, Q-03
2-Methylnaphthalene	293	0.0413	0.0825	ug/L	1	2.06	350	-2770	48-150%	26	30%	Q-03, E
Naphthalene	320	0.0413	0.0825	ug/L	1	2.06	362	-2030	78-120%	10	30%	Q-03, E
Phenanthrene	70.1	0.0413	0.0825	ug/L	1	2.06	68.9	57	80-120%	2	30%	Q-03, E
Pyrene	5.26	0.0206	0.0413	ug/L	1	2.06	2.64	127	80-125%	0.9	30%	Q-03
Carbazole	196	0.0206	0.0413	ug/L	1	2.06	189	345	65-141%	1	30%	Q-03, E
Dibenzofuran	20.7	0.0206	0.0413	ug/L	1	2.06	18.9	84	76-121%	2	30%	E
Surr: Acenaphthylene-d8 (Surr)		Recovery: 91 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		119 %		80-132 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 68 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0671 - EPA 3015A						Water						
Blank (23I0671-BLK1)			Prepared: 09/21/23 10:09		Analyzed: 09/21/23 19:43							
EPA 6020B												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	
Manganese	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Vanadium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	

LCS (23I0671-BS1)

Prepared: 09/21/23 10:09 Analyzed: 09/21/23 19:48

EPA 6020B												
Aluminum	2900	25.0	50.0	ug/L	1	2780	---	104	80-120%	---	---	
Antimony	29.1	0.500	1.00	ug/L	1	27.8	---	105	80-120%	---	---	
Arsenic	55.8	0.500	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Barium	59.0	1.00	2.00	ug/L	1	55.6	---	106	80-120%	---	---	
Beryllium	27.9	0.100	0.200	ug/L	1	27.8	---	101	80-120%	---	---	
Cadmium	58.2	0.100	0.200	ug/L	1	55.6	---	105	80-120%	---	---	
Chromium	58.0	1.00	2.00	ug/L	1	55.6	---	104	80-120%	---	---	
Copper	59.4	1.00	2.00	ug/L	1	55.6	---	107	80-120%	---	---	
Iron	3100	25.0	50.0	ug/L	1	2780	---	112	80-120%	---	---	
Lead	56.2	0.110	0.200	ug/L	1	55.6	---	101	80-120%	---	---	
Manganese	58.1	0.500	1.00	ug/L	1	55.6	---	105	80-120%	---	---	
Mercury	1.14	0.0400	0.0800	ug/L	1	1.11	---	102	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 69 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

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 2310671 - EPA 3015A						Water						
LCS (2310671-BS1)						Prepared: 09/21/23 10:09 Analyzed: 09/21/23 19:48						
Nickel	59.1	1.00	2.00	ug/L	1	55.6	---	106	80-120%	---	---	
Selenium	28.6	0.500	1.00	ug/L	1	27.8	---	103	80-120%	---	---	
Silver	31.4	0.100	0.200	ug/L	1	27.8	---	113	80-120%	---	---	
Thallium	28.5	0.100	0.200	ug/L	1	27.8	---	103	80-120%	---	---	
Vanadium	56.9	1.00	2.00	ug/L	1	55.6	---	102	80-120%	---	---	
Zinc	58.0	2.00	4.00	ug/L	1	55.6	---	104	80-120%	---	---	

Duplicate (2310671-DUP1)

Prepared: 09/21/23 10:09 Analyzed: 09/21/23 19:58

QC Source Sample: Non-SDG (A311038-19)

Aluminum	499	25.0	50.0	ug/L	1	---	488	---	---	2	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	9.42	0.500	1.00	ug/L	1	---	9.32	---	---	1	20%	
Barium	65.9	1.00	2.00	ug/L	1	---	66.0	---	---	0.08	20%	
Beryllium	0.103	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	J
Cadmium	0.321	0.100	0.200	ug/L	1	---	0.293	---	---	9	20%	
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	3.95	1.00	2.00	ug/L	1	---	4.02	---	---	2	20%	
Iron	11000	25.0	50.0	ug/L	1	---	11200	---	---	1	20%	
Lead	3.34	0.110	0.200	ug/L	1	---	3.38	---	---	1	20%	
Manganese	1360	0.500	1.00	ug/L	1	---	1370	---	---	0.8	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	5.48	1.00	2.00	ug/L	1	---	5.42	---	---	0.9	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	1.44	1.00	2.00	ug/L	1	---	1.50	---	---	4	20%	J
Zinc	22.2	2.00	4.00	ug/L	1	---	20.8	---	---	6	20%	

Matrix Spike (2310671-MS1)

Prepared: 09/21/23 10:09 Analyzed: 09/21/23 20:03

QC Source Sample: Non-SDG (A311038-19)

EPA 6020B												
Aluminum	3420	25.0	50.0	ug/L	1	2780	488	106	75-125%	---	---	
Antimony	29.0	0.500	1.00	ug/L	1	27.8	ND	104	75-125%	---	---	
Arsenic	64.3	0.500	1.00	ug/L	1	55.6	9.32	99	75-125%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0671 - EPA 3015A						Water						
Matrix Spike (23I0671-MS1)			Prepared: 09/21/23 10:09		Analyzed: 09/21/23 20:03							
QC Source Sample: Non-SDG (A3I1038-19)												
Barium	123	1.00	2.00	ug/L	1	55.6	66.0	104	75-125%	---	---	Q-65
Beryllium	27.6	0.100	0.200	ug/L	1	27.8	ND	99	75-125%	---	---	
Cadmium	56.9	0.100	0.200	ug/L	1	55.6	0.293	102	75-125%	---	---	
Chromium	58.1	1.00	2.00	ug/L	1	55.6	ND	104	75-125%	---	---	
Copper	62.6	1.00	2.00	ug/L	1	55.6	4.02	105	75-125%	---	---	
Iron	14100	25.0	50.0	ug/L	1	2780	11200	104	75-125%	---	---	
Lead	57.0	0.110	0.200	ug/L	1	55.6	3.38	97	75-125%	---	---	
Manganese	1410	0.500	1.00	ug/L	1	55.6	1370	74	75-125%	---	---	
Mercury	1.09	0.0400	0.0800	ug/L	1	1.11	ND	98	75-125%	---	---	
Nickel	63.0	1.00	2.00	ug/L	1	55.6	5.42	104	75-125%	---	---	
Selenium	28.1	0.500	1.00	ug/L	1	27.8	ND	101	75-125%	---	---	
Silver	30.2	0.100	0.200	ug/L	1	27.8	ND	109	75-125%	---	---	
Thallium	27.3	0.100	0.200	ug/L	1	27.8	ND	98	75-125%	---	---	
Vanadium	58.8	1.00	2.00	ug/L	1	55.6	1.50	103	75-125%	---	---	
Zinc	77.6	2.00	4.00	ug/L	1	55.6	20.8	102	75-125%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 71 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0562 - Lachat Micro Dist - aqueous						Water						
Blank (23I0562-BLK1)			Prepared: 09/19/23 08:52 Analyzed: 09/19/23 18:31									
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0562-BS1)			Prepared: 09/19/23 08:52 Analyzed: 09/19/23 18:39									
EPA 335.4												
Total Cyanide	0.254	0.00500	0.00500	mg/L	1	0.250	---	102	90-110%	---	---	
Duplicate (23I0562-DUP1)			Prepared: 09/19/23 08:52 Analyzed: 09/19/23 18:47									
QC Source Sample: Non-SDG (A3I0964-03)												
Total Cyanide	0.0327	0.00500	0.00500	mg/L	1	---	0.0358	---	---	9	10%	
Duplicate (23I0562-DUP2)			Prepared: 09/19/23 08:52 Analyzed: 09/19/23 19:31									
QC Source Sample: Non-SDG (A3I1050-20)												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (23I0562-MS1)			Prepared: 09/19/23 08:52 Analyzed: 09/19/23 18:49									
QC Source Sample: Non-SDG (A3I0964-03)												
EPA 335.4												
Total Cyanide	0.267	0.00500	0.00500	mg/L	1	0.250	0.0358	93	90-110%	---	---	
Matrix Spike (23I0562-MS2)			Prepared: 09/19/23 08:52 Analyzed: 09/19/23 19:33									
QC Source Sample: Non-SDG (A3I1050-20)												
EPA 335.4												
Total Cyanide	0.167	0.00500	0.00500	mg/L	1	0.250	ND	67	90-110%	---	---	Q-01

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 72 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0547 - Method Prep: Aq						Water						
Blank (23I0547-BLK1)			Prepared: 09/18/23 14:44 Analyzed: 09/18/23 16:58									
D6888-09												
Available Cyanide	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23I0547-BS1)			Prepared: 09/18/23 14:44 Analyzed: 09/18/23 16:59									
D6888-09												
Available Cyanide	0.0273	0.00100	0.00200	mg/L	1	0.0250	---	109	90-117%	---	---	
Matrix Spike (23I0547-MS1)			Prepared: 09/18/23 14:44 Analyzed: 09/18/23 17:10									
QC Source Sample: Non-SDG (A3I0964-03)												
D6888-09												
Available Cyanide	0.0338	0.00101	0.00201	mg/L	1	0.0251	0.00618	110	82-130%	---	---	
Matrix Spike (23I0547-MS2)			Prepared: 09/18/23 14:44 Analyzed: 09/18/23 17:38									
QC Source Sample: GS-091223-13 (A3I1040-06)												
D6888-09												
Available Cyanide	0.0270	0.00101	0.00201	mg/L	1	0.0251	ND	108	82-130%	---	---	
Matrix Spike Dup (23I0547-MSD1)			Prepared: 09/18/23 14:44 Analyzed: 09/18/23 17:11									
QC Source Sample: Non-SDG (A3I0964-03)												
Available Cyanide	0.0333	0.00101	0.00201	mg/L	1	0.0251	0.00618	108	82-130%	2	11%	
Matrix Spike Dup (23I0547-MSD2)			Prepared: 09/18/23 14:44 Analyzed: 09/18/23 17:40									
QC Source Sample: GS-091223-13 (A3I1040-06)												
D6888-09												
Available Cyanide	0.0266	0.00101	0.00201	mg/L	1	0.0251	ND	106	82-130%	2	11%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 73 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

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 23I0573 - Microdiffusion						Water						
Blank (23I0573-BLK1)			Prepared: 09/19/23 13:13 Analyzed: 09/19/23 19:06									
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0573-BS1)			Prepared: 09/19/23 13:13 Analyzed: 09/19/23 19:07									
<u>D4282-02</u>												
Free Cyanide	0.0654	0.00250	0.00500	mg/L	1	0.0667	---	98	74-120%	---	---	
LCS Dup (23I0573-BSD1)			Prepared: 09/19/23 13:13 Analyzed: 09/19/23 19:07									
<u>D4282-02</u>												
Free Cyanide	0.0663	0.00250	0.00500	mg/L	1	0.0667	---	99	74-120%	1	20%	
Matrix Spike (23I0573-MS1)			Prepared: 09/19/23 13:13 Analyzed: 09/19/23 19:18									
<u>QC Source Sample: Non-SDG (A3I0964-03)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0634	0.00250	0.00500	mg/L	1	0.0667	ND	95	74-120%	---	---	
Matrix Spike Dup (23I0573-MSD1)			Prepared: 09/19/23 13:13 Analyzed: 09/19/23 19:19									
<u>QC Source Sample: Non-SDG (A3I0964-03)</u>												
Free Cyanide	0.0565	0.00250	0.00500	mg/L	1	0.0667	ND	85	74-120%	12	20%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 74 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0768							
A3I1040-01	WG	NWTPH-Dx	09/12/23 09:20	09/25/23 11:04	1050mL/5mL	1000mL/5mL	0.95
A3I1040-02	WG	NWTPH-Dx	09/12/23 10:20	09/25/23 11:04	1040mL/5mL	1000mL/5mL	0.96
A3I1040-03	WG	NWTPH-Dx	09/12/23 10:45	09/25/23 11:04	1040mL/5mL	1000mL/5mL	0.96
A3I1040-04	WG	NWTPH-Dx	09/12/23 11:45	09/25/23 11:04	1040mL/5mL	1000mL/5mL	0.96
A3I1040-05	WG	NWTPH-Dx	09/12/23 13:40	09/25/23 11:04	1040mL/5mL	1000mL/5mL	0.96
A3I1040-06	WG	NWTPH-Dx	09/12/23 14:45	09/25/23 11:04	1040mL/5mL	1000mL/5mL	0.96
A3I1040-08	WG	NWTPH-Dx	09/12/23 15:30	09/25/23 11:04	1030mL/5mL	1000mL/5mL	0.97

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: 23I0365							
A3I1040-05	WG	NWTPH-Gx (MS)	09/12/23 13:40	09/13/23 09:00	5mL/5mL	5mL/5mL	1.00
Batch: 23I0410							
A3I1040-01RE1	WG	NWTPH-Gx (MS)	09/12/23 09:20	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-02RE1	WG	NWTPH-Gx (MS)	09/12/23 10:20	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-03RE1	WG	NWTPH-Gx (MS)	09/12/23 10:45	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-04RE1	WG	NWTPH-Gx (MS)	09/12/23 11:45	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-06RE1	WG	NWTPH-Gx (MS)	09/12/23 14:45	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-08RE1	WG	NWTPH-Gx (MS)	09/12/23 15:30	09/14/23 09:00	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: 23I0365							
A3I1040-05	WG	EPA 8260D	09/12/23 13:40	09/13/23 09:00	5mL/5mL	5mL/5mL	1.00
Batch: 23I0410							
A3I1040-01RE1	WG	EPA 8260D	09/12/23 09:20	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-02RE1	WG	EPA 8260D	09/12/23 10:20	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-03RE1	WG	EPA 8260D	09/12/23 10:45	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-04RE1	WG	EPA 8260D	09/12/23 11:45	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-06RE1	WG	EPA 8260D	09/12/23 14:45	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00
A3I1040-07	W	EPA 8260D	09/12/23 15:10	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 75 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1040 - 12 05 23 0558**

SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3I1040-08RE1	WG	EPA 8260D	09/12/23 15:30	09/14/23 09:00	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D SIM

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23I0546</u>							
A3I1040-03	WG	EPA 8260D SIM	09/12/23 10:45	09/18/23 15:44	5mL/5mL	5mL/5mL	1.00
A3I1040-05	WG	EPA 8260D SIM	09/12/23 13:40	09/18/23 15:44	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
<u>Batch: 23I0360</u>							
A3I1040-01RE1	WG	EPA 8270E LVI	09/12/23 09:20	09/13/23 14:19	83.43mL/5mL	125mL/5mL	1.50
A3I1040-02	WG	EPA 8270E LVI	09/12/23 10:20	09/13/23 14:19	116.62mL/5mL	125mL/5mL	1.07
A3I1040-03	WG	EPA 8270E LVI	09/12/23 10:45	09/13/23 14:19	93.09mL/5mL	125mL/5mL	1.34
A3I1040-04	WG	EPA 8270E LVI	09/12/23 11:45	09/13/23 14:19	122.88mL/5mL	125mL/5mL	1.02
A3I1040-05	WG	EPA 8270E LVI	09/12/23 13:40	09/13/23 14:19	94.17mL/5mL	125mL/5mL	1.33
A3I1040-05RE1	WG	EPA 8270E LVI	09/12/23 13:40	09/13/23 14:19	94.17mL/5mL	125mL/5mL	1.33
A3I1040-06	WG	EPA 8270E LVI	09/12/23 14:45	09/13/23 14:19	101.36mL/5mL	125mL/5mL	1.23
A3I1040-08	WG	EPA 8270E LVI	09/12/23 15:30	09/13/23 14:19	124.74mL/5mL	125mL/5mL	1.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23I0671</u>							
A3I1040-01	WG	EPA 6020B	09/12/23 09:20	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00
A3I1040-01RE1	WG	EPA 6020B	09/12/23 09:20	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00
A3I1040-02	WG	EPA 6020B	09/12/23 10:20	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00
A3I1040-03	WG	EPA 6020B	09/12/23 10:45	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00
A3I1040-03RE1	WG	EPA 6020B	09/12/23 10:45	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00
A3I1040-04	WG	EPA 6020B	09/12/23 11:45	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00
A3I1040-05	WG	EPA 6020B	09/12/23 13:40	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00
A3I1040-06	WG	EPA 6020B	09/12/23 14:45	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 76 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311040 - 12 05 23 0558**

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A311040-08	WG	EPA 6020B	09/12/23 15:30	09/21/23 10:09	45mL/50mL	45mL/50mL	1.00

Total Cyanide by Flow Analysis (Aqueous)

Prep: Lachat Micro Dist - aqueous

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 2310562</u>							
A311040-01	WG	EPA 335.4	09/12/23 09:20	09/19/23 08:52	6mL/6mL	6mL/6mL	1.00
A311040-02	WG	EPA 335.4	09/12/23 10:20	09/19/23 08:52	6mL/6mL	6mL/6mL	1.00
A311040-03RE1	WG	EPA 335.4	09/12/23 10:45	09/19/23 08:52	6mL/6mL	6mL/6mL	1.00
A311040-04	WG	EPA 335.4	09/12/23 11:45	09/19/23 08:52	6mL/6mL	6mL/6mL	1.00
A311040-05	WG	EPA 335.4	09/12/23 13:40	09/19/23 08:52	6mL/6mL	6mL/6mL	1.00
A311040-06	WG	EPA 335.4	09/12/23 14:45	09/19/23 08:52	6mL/6mL	6mL/6mL	1.00
A311040-08	WG	EPA 335.4	09/12/23 15:30	09/19/23 08:52	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
<u>Batch: 2310547</u>							
A311040-01	WG	D6888-09	09/12/23 09:20	09/18/23 14:44	5mL/5mL	5mL/5mL	1.00
A311040-02	WG	D6888-09	09/12/23 10:20	09/18/23 14:44	5mL/5mL	5mL/5mL	1.00
A311040-03	WG	D6888-09	09/12/23 10:45	09/18/23 14:44	5mL/5mL	5mL/5mL	1.00
A311040-04	WG	D6888-09	09/12/23 11:45	09/18/23 14:44	5mL/5mL	5mL/5mL	1.00
A311040-05	WG	D6888-09	09/12/23 13:40	09/18/23 14:44	5mL/5mL	5mL/5mL	1.00
A311040-06	WG	D6888-09	09/12/23 14:45	09/18/23 14:44	5mL/5mL	5mL/5mL	1.00
A311040-08	WG	D6888-09	09/12/23 15:30	09/18/23 14:44	5mL/5mL	5mL/5mL	1.00

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Prep: Microdiffusion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 2310573</u>							
A311040-01	WG	D4282-02	09/12/23 09:20	09/19/23 13:13	3mL/3mL	3mL/3mL	1.00
A311040-02	WG	D4282-02	09/12/23 10:20	09/19/23 13:13	3mL/3mL	3mL/3mL	1.00
A311040-03	WG	D4282-02	09/12/23 10:45	09/19/23 13:13	3mL/3mL	3mL/3mL	1.00
A311040-04	WG	D4282-02	09/12/23 11:45	09/19/23 13:13	3mL/3mL	3mL/3mL	1.00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 77 of 85



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-MGP Only Mon.Wells 3Q 2023 Perf. Mon**

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

Project Manager: **John Renda**

Report ID:

A3I1040 - 12 05 23 0558

SAMPLE PREPARATION INFORMATION

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Prep: Microdiffusion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3I1040-05	WG	D4282-02	09/12/23 13:40	09/19/23 13:13	3mL/3mL	3mL/3mL	1.00
A3I1040-06	WG	D4282-02	09/12/23 14:45	09/19/23 13:13	3mL/3mL	3mL/3mL	1.00
A3I1040-08	WG	D4282-02	09/12/23 15:30	09/19/23 13:13	3mL/3mL	3mL/3mL	1.00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: **000029-02.84 T-01.001E**
Project Manager: **John Renda**

Report ID:

A3I1040 - 12 05 23 0558

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-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- F-20** Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-02** Spike recovery is outside of established control limits due to matrix interference.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +10%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +14%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +22%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +29%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +31%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -16%. The results are reported as Estimated Values.
- Q-54j** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

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

Project Manager: **John Renda**

Report ID:

A3I1040 - 12 05 23 0558

- Q-54k** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -6%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- Q-65** Spike recovery is estimated due to the high analyte concentration of the source sample.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the 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.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

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

Project Manager: **John Renda**

Report ID:

A311040 - 12 05 23 0558

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

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

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

Project Manager: **John Renda**

Report ID:

A311040 - 12 05 23 0558

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.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

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

Project Manager: **John Renda**

Report ID:

A3I1040 - 12 05 23 0558

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
--------	----------	--------	---------	--------	---------------

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

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

Field Testing Parameters

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

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311040 - 12 05 23 0558

APEX LABS		CHAIN OF CUSTODY		Lab # 13100 coc 1 of 1	
Company: Anchor QEA		Project Mgr: John Renda		Project Name: GASCO - MGP Only Mon. Wells 3Q 2023 Perf. Mon	
Address: 6720 S. Macadam Ave. #300 Portland, OR 97223		Phone: 503-670-1101		Email: jrenda@anchorqea.com	
Sampled by: L. Caffoon, Montgomery		Project Mgr: John Renda		Project #: 000029-02.84	
Site Location: State OR, County Mult.		Project Mgr: John Renda		Project #: 000029-02.84	
DATE		TIME		Matrix	
SAMPLE ID		DATE		TIME	
GS-091223-08	9/12/23	0920	W6	12	
GS-091223-09	1020	12			
GS-091223-10	1045	12			
GS-091223-11	1145	12			
GS-091223-12	1340	12			
GS-091223-13	1445	12			
TR-091223	1510	W	1		
GS-091223-14	9/12/23	1530	W6	12	
SPECIAL INSTRUCTIONS:					
Standard Turn Around Time (TAT) = 10 Business Days					
TAT Requested (circle) 1 Day 2 Day 3 Day 5 Day Standard Other:					
SAMPLES ARE HELD FOR 30 DAYS					
RELINQUISHED BY:		RECEIVED BY:		RECEIVED BY:	
Signature: [Signature]		Signature: [Signature]		Signature: [Signature]	
Date: 9/13/2023		Date: 9/13/23		Date:	
Printed Name: Day Laffoon		Printed Name: Rickman		Printed Name:	
Time: 0744		Time: 0744		Time:	
Company: Anchor QEA		Company: APEX		Company:	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.



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-MGP Only Mon. Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1040 - 12 05 23 0558

APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A3 I1040Project/Project #: Gasco-MGP only Mon. Wells 3Q 2023 Perf. Mon.
000029-02.84 T-01.001E

Delivery Info:

Date/time received: 9/13/23 @ 744 By: BKDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 9/13/23 @ 825 By: JSChain 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>1.7</u>	<u>2.3</u>					
Custody seals? (Y/N)	<u>N</u>	<u>N</u>					
Received on ice? (Y/N)	<u>y</u>	<u>y</u>					
Temp. blanks? (Y/N)	<u>y</u>	<u>y</u>					
Ice type: (Gel/Real/Other)	<u>real</u>	<u>real</u>					
Condition (In/Out):	<u>In</u>	<u>In</u>					

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

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 9/13/23 @ 940 By: JSAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments: No information onsample labels on 2/2 Ambers, bagged together with
other 65-09123-4 samplesCOC/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 ☐Comments: 65-09123-10 pH 9 - NaOH PolyAdditional information: TB# 3379

Labeled by:

JS

Witness:

DJS

Cooler Inspected by:

JS

Form Y-003 R-00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 85 of 85