



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sunday, September 3, 2023

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

RE: A3F1132 - Gasco-MGP Only Mon. Wells 2Q 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 A3F1132, which was received by the laboratory on 6/14/2023 at 8:15:00AM.

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

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

Cooler Receipt Information	
<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)	
Default Cooler	0.7 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



Apex Laboratories

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Darwin Thomas, Business Development Director



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6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**

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

Project Manager: **John Renda**

Report ID:

A3F1132 - 09 03 23 0829

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-061323-01	A3F1132-01	WG	06/13/23 11:05	06/14/23 08:15
GS-061323-02	A3F1132-02	WG	06/13/23 13:40	06/14/23 08:15
GS-061323-03	A3F1132-03	WG	06/13/23 13:45	06/14/23 08:15
GS-061323-04	A3F1132-04	WG	06/13/23 15:10	06/14/23 08:15
TB-061323	A3F1132-05	W	06/13/23 15:30	06/14/23 08:15

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ANALYTICAL CASE NARRATIVE

A3F1132

Apex Laboratories

Benzofluoranthene Isomer Reporting:

Due to coelution on the analytical column, the Benzo(b)fluoranthene results represent the concentration of both Benzo(b)fluoranthene and Benzo(j)fluoranthene. Calibration is based on the response of Benzo(b)fluoranthene, and the results represent the combined Benzo(b,j)fluoranthene(s).

David Jack
Technical Manager
September 1, 2023

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-01 (A3F1132-01RE1)				Matrix: WG		Batch: 23F0538		
Acetone	ND	500	1000	ug/L	50	06/15/23 19:14	EPA 8260D	
Acrylonitrile	ND	50.0	100	ug/L	50	06/15/23 19:14	EPA 8260D	
Benzene	6850	5.00	10.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Bromobenzene	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Bromochloromethane	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Bromoform	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Bromomethane	ND	250	250	ug/L	50	06/15/23 19:14	EPA 8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	06/15/23 19:14	EPA 8260D	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Carbon disulfide	ND	250	500	ug/L	50	06/15/23 19:14	EPA 8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Chloroethane	ND	250	250	ug/L	50	06/15/23 19:14	EPA 8260D	
Chloroform	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Chloromethane	ND	125	250	ug/L	50	06/15/23 19:14	EPA 8260D	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Dibromomethane	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,1-Dichloroethane	ND	10.0	20.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	

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Darwin Thomas, Business Development Director



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Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-01 (A3F1132-01RE1)		Matrix: WG			Batch: 23F0538			
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Ethylbenzene	31.5	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Hexachlorobutadiene	ND	125	250	ug/L	50	06/15/23 19:14	EPA 8260D	
2-Hexanone	ND	250	500	ug/L	50	06/15/23 19:14	EPA 8260D	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Methylene chloride	ND	250	500	ug/L	50	06/15/23 19:14	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	06/15/23 19:14	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Naphthalene	184	50.0	100	ug/L	50	06/15/23 19:14	EPA 8260D	
n-Propylbenzene	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Styrene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	10.0	20.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Toluene	546	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	06/15/23 19:14	EPA 8260D	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
m,p-Xylene	78.0	25.0	50.0	ug/L	50	06/15/23 19:14	EPA 8260D	
o-Xylene	30.5	12.5	25.0	ug/L	50	06/15/23 19:14	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %	1	06/15/23 19:14	EPA 8260D	
Toluene-d8 (Surr)		101 %		80-120 %	1	06/15/23 19:14	EPA 8260D	
4-Bromofluorobenzene (Surr)		108 %		80-120 %	1	06/15/23 19:14	EPA 8260D	

GS-061323-02 (A3F1132-02RE1)**Matrix: WG****Batch: 23F0538**

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-02 (A3F1132-02RE1)				Matrix: WG		Batch: 23F0538		
Acetone	ND	100	200	ug/L	10	06/15/23 18:06	EPA 8260D	
Acrylonitrile	ND	10.0	20.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Benzene	1310	1.00	2.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Bromobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Bromochloromethane	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Bromoform	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Bromomethane	ND	50.0	50.0	ug/L	10	06/15/23 18:06	EPA 8260D	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	06/15/23 18:06	EPA 8260D	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Carbon disulfide	ND	50.0	100	ug/L	10	06/15/23 18:06	EPA 8260D	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Chlorobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Chloroethane	ND	50.0	50.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Chloroform	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Chloromethane	ND	25.0	50.0	ug/L	10	06/15/23 18:06	EPA 8260D	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Dibromomethane	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-02 (A3F1132-02RE1)		Matrix: WG			Batch: 23F0538			
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Ethylbenzene	29.5	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	06/15/23 18:06	EPA 8260D	
2-Hexanone	ND	50.0	100	ug/L	10	06/15/23 18:06	EPA 8260D	
Isopropylbenzene	ND	10.0	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Methylene chloride	ND	50.0	100	ug/L	10	06/15/23 18:06	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	50.0	100	ug/L	10	06/15/23 18:06	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
Naphthalene	868	10.0	20.0	ug/L	10	06/15/23 18:06	EPA 8260D	
n-Propylbenzene	ND	5.00	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Styrene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	06/15/23 18:06	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Toluene	16.9	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	06/15/23 18:06	EPA 8260D	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,2,4-Trimethylbenzene	15.0	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
m,p-Xylene	30.2	5.00	10.0	ug/L	10	06/15/23 18:06	EPA 8260D	
o-Xylene	19.8	2.50	5.00	ug/L	10	06/15/23 18:06	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 113 %		Limits: 80-120 %	1	06/15/23 18:06	EPA 8260D	
Toluene-d8 (Surr)		99 %		80-120 %	1	06/15/23 18:06	EPA 8260D	
4-Bromofluorobenzene (Surr)		105 %		80-120 %	1	06/15/23 18:06	EPA 8260D	

GS-061323-03 (A3F1132-03RE1)

Matrix: WG

Batch: 23F0538

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Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-03 (A3F1132-03RE1)				Matrix: WG		Batch: 23F0538		
Acetone	ND	100	200	ug/L	10	06/15/23 18:29	EPA 8260D	
Acrylonitrile	ND	10.0	20.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Benzene	1230	1.00	2.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Bromobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Bromochloromethane	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Bromoform	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Bromomethane	ND	50.0	50.0	ug/L	10	06/15/23 18:29	EPA 8260D	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	06/15/23 18:29	EPA 8260D	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Carbon disulfide	ND	50.0	100	ug/L	10	06/15/23 18:29	EPA 8260D	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Chlorobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Chloroethane	ND	50.0	50.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Chloroform	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Chloromethane	ND	25.0	50.0	ug/L	10	06/15/23 18:29	EPA 8260D	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Dibromomethane	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-03 (A3F1132-03RE1)		Matrix: WG			Batch: 23F0538			
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Ethylbenzene	26.0	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	06/15/23 18:29	EPA 8260D	
2-Hexanone	ND	50.0	100	ug/L	10	06/15/23 18:29	EPA 8260D	
Isopropylbenzene	ND	10.0	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Methylene chloride	ND	50.0	100	ug/L	10	06/15/23 18:29	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	50.0	100	ug/L	10	06/15/23 18:29	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
Naphthalene	853	10.0	20.0	ug/L	10	06/15/23 18:29	EPA 8260D	
n-Propylbenzene	ND	5.00	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Styrene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	06/15/23 18:29	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Toluene	14.6	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	06/15/23 18:29	EPA 8260D	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,2,4-Trimethylbenzene	12.8	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
m,p-Xylene	24.0	5.00	10.0	ug/L	10	06/15/23 18:29	EPA 8260D	
o-Xylene	16.4	2.50	5.00	ug/L	10	06/15/23 18:29	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %	1	06/15/23 18:29	EPA 8260D	
Toluene-d8 (Surr)		99 %		80-120 %	1	06/15/23 18:29	EPA 8260D	
4-Bromofluorobenzene (Surr)		106 %		80-120 %	1	06/15/23 18:29	EPA 8260D	

GS-061323-04 (A3F1132-04RE1)**Matrix: WG****Batch: 23F0538**

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-04 (A3F1132-04RE1)				Matrix: WG		Batch: 23F0538		
Acetone	ND	500	1000	ug/L	50	06/15/23 18:51	EPA 8260D	
Acrylonitrile	ND	50.0	100	ug/L	50	06/15/23 18:51	EPA 8260D	
Benzene	9900	5.00	10.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Bromobenzene	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Bromochloromethane	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Bromoform	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Bromomethane	ND	250	250	ug/L	50	06/15/23 18:51	EPA 8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	06/15/23 18:51	EPA 8260D	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Carbon disulfide	ND	250	500	ug/L	50	06/15/23 18:51	EPA 8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Chloroethane	ND	250	250	ug/L	50	06/15/23 18:51	EPA 8260D	
Chloroform	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Chloromethane	ND	125	250	ug/L	50	06/15/23 18:51	EPA 8260D	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Dibromomethane	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,1-Dichloroethane	ND	10.0	20.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-04 (A3F1132-04RE1)		Matrix: WG			Batch: 23F0538			
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Ethylbenzene	563	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Hexachlorobutadiene	ND	125	250	ug/L	50	06/15/23 18:51	EPA 8260D	
2-Hexanone	ND	250	500	ug/L	50	06/15/23 18:51	EPA 8260D	
Isopropylbenzene	ND	50.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Methylene chloride	ND	250	500	ug/L	50	06/15/23 18:51	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	06/15/23 18:51	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Naphthalene	1350	50.0	100	ug/L	50	06/15/23 18:51	EPA 8260D	
n-Propylbenzene	25.5	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Styrene	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	10.0	20.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Toluene	59.5	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	06/15/23 18:51	EPA 8260D	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,2,4-Trimethylbenzene	106	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
1,3,5-Trimethylbenzene	47.5	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	J
m,p-Xylene	332	25.0	50.0	ug/L	50	06/15/23 18:51	EPA 8260D	
o-Xylene	209	12.5	25.0	ug/L	50	06/15/23 18:51	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %	1	06/15/23 18:51	EPA 8260D	
Toluene-d8 (Surr)		100 %		80-120 %	1	06/15/23 18:51	EPA 8260D	
4-Bromofluorobenzene (Surr)		105 %		80-120 %	1	06/15/23 18:51	EPA 8260D	

TB-061323 (A3F1132-05)

Matrix: W

Batch: 23F0538

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Darwin Thomas, Business Development Director

Page 11 of 65



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 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-061323 (A3F1132-05)		Matrix: W			Batch: 23F0538			
Acetone	ND	10.0	20.0	ug/L	1	06/15/23 11:41	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	06/15/23 11:41	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	06/15/23 11:41	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	06/15/23 11:41	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	06/15/23 11:41	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	06/15/23 11:41	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	

Apex Laboratories

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Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-061323 (A3F1132-05)		Matrix: W			Batch: 23F0538			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	06/15/23 11:41	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	06/15/23 11:41	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	06/15/23 11:41	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	06/15/23 11:41	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	06/15/23 11:41	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	06/15/23 11:41	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	06/15/23 11:41	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	06/15/23 11:41	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**

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

Project Manager: **John Renda**

Report ID:

A3F1132 - 09 03 23 0829

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-061323 (A3F1132-05)				Matrix: W		Batch: 23F0538		
Surrogate: 1,4-Difluorobenzene (Surr)			Recovery: 98 %	Limits: 80-120 %	1	06/15/23 11:41	EPA 8260D	
Toluene-d8 (Surr)			102 %	80-120 %	1	06/15/23 11:41	EPA 8260D	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	06/15/23 11:41	EPA 8260D	

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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-061323-01 (A3F1132-01)		Matrix: WG			Batch: 23F0902			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 15:43	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 15:43	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 15:43	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	06/25/23 15:43	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	06/25/23 15:43	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %	1	06/25/23 15:43	EPA 8260D SIM	
Toluene-d8 (Surr)		105 %		80-120 %	1	06/25/23 15:43	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)		97 %		80-120 %	1	06/25/23 15:43	EPA 8260D SIM	
GS-061323-02 (A3F1132-02)		Matrix: WG			Batch: 23F0902			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 17:58	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 17:58	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 17:58	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	06/25/23 17:58	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	06/25/23 17:58	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %	1	06/25/23 17:58	EPA 8260D SIM	
Toluene-d8 (Surr)		106 %		80-120 %	1	06/25/23 17:58	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)		93 %		80-120 %	1	06/25/23 17:58	EPA 8260D SIM	
GS-061323-03 (A3F1132-03)		Matrix: WG			Batch: 23F0902			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 18:25	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 18:25	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 18:25	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	06/25/23 18:25	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	06/25/23 18:25	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %	1	06/25/23 18:25	EPA 8260D SIM	
Toluene-d8 (Surr)		104 %		80-120 %	1	06/25/23 18:25	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)		92 %		80-120 %	1	06/25/23 18:25	EPA 8260D SIM	
GS-061323-04 (A3F1132-04)		Matrix: WG			Batch: 23F0902			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 18:52	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.500	0.500	ug/L	25	06/25/23 18:52	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	06/25/23 18:52	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	06/25/23 18:52	EPA 8260D SIM	

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

Project Manager: **John Renda**

Report ID:

A3F1132 - 09 03 23 0829

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-061323-04 (A3F1132-04)		Matrix: WG			Batch: 23F0902			
Vinyl chloride	ND	0.250	0.500	ug/L	25	06/25/23 18:52	EPA 8260D SIM	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	93 %	<i>Limits:</i>	80-120 %	1	06/25/23 18:52	EPA 8260D SIM
<i>Toluene-d8 (Surr)</i>			103 %		80-120 %	1	06/25/23 18:52	EPA 8260D SIM
<i>4-Bromofluorobenzene (Surr)</i>			88 %		80-120 %	1	06/25/23 18:52	EPA 8260D SIM

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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-061323-01 (A3F1132-01)				Matrix: WG		Batch: 23F0532		
Acenaphthene	ND	5.18	5.18	ug/L	100	06/15/23 15:00	EPA 8270E LVI	R-02
Acenaphthylene	ND	1.66	3.31	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Anthracene	1.90	1.66	3.31	ug/L	100	06/15/23 15:00	EPA 8270E LVI	J
Benz(a)anthracene	ND	0.828	1.66	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.828	1.66	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.828	1.66	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.828	1.66	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.66	3.31	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Chrysene	ND	0.828	1.66	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.828	1.66	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Fluoranthene	ND	1.66	3.31	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Fluorene	2.03	1.66	3.31	ug/L	100	06/15/23 15:00	EPA 8270E LVI	J
Indeno(1,2,3-cd)pyrene	ND	0.828	1.66	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
1-Methylnaphthalene	4.68	3.31	6.62	ug/L	100	06/15/23 15:00	EPA 8270E LVI	J
2-Methylnaphthalene	ND	3.31	6.62	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Naphthalene	173	3.31	6.62	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Phenanthrene	3.31	3.31	6.62	ug/L	100	06/15/23 15:00	EPA 8270E LVI	J
Pyrene	ND	1.66	3.31	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Carbazole	6.62	1.66	3.31	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Dibenzofuran	ND	1.66	3.31	ug/L	100	06/15/23 15:00	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	06/15/23 15:00	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		96 %		80-132 %	100	06/15/23 15:00	EPA 8270E LVI	S-05
GS-061323-02 (A3F1132-02)				Matrix: WG		Batch: 23F0532		
Acenaphthene	70.7	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Acenaphthylene	6.62	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Anthracene	3.77	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Benz(a)anthracene	ND	0.920	1.84	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.920	1.84	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.920	1.84	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.920	1.84	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Chrysene	ND	0.920	1.84	ug/L	100	06/15/23 20:59	EPA 8270E LVI	

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ANALYTICAL REPORT

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503-718-2323
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Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
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Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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-061323-02 (A3F1132-02)		Matrix: WG			Batch: 23F0532			
Dibenz(a,h)anthracene	ND	0.920	1.84	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Fluoranthene	ND	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Fluorene	16.7	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.920	1.84	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
1-Methylnaphthalene	73.1	3.68	7.36	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
2-Methylnaphthalene	71.4	3.68	7.36	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Naphthalene	628	3.68	7.36	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Phenanthrene	13.6	3.68	7.36	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Pyrene	ND	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Carbazole	23.6	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Dibenzofuran	7.31	1.84	3.68	ug/L	100	06/15/23 20:59	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	06/15/23 20:59	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		126 %		80-132 %	100	06/15/23 20:59	EPA 8270E LVI	S-05
GS-061323-03 (A3F1132-03)		Matrix: WG			Batch: 23F0532			
Acenaphthene	71.6	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Acenaphthylene	8.59	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Anthracene	3.79	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Benz(a)anthracene	ND	0.881	1.76	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.881	1.76	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.881	1.76	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.881	1.76	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Chrysene	ND	0.881	1.76	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.881	1.76	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Fluoranthene	ND	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Fluorene	16.2	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.881	1.76	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
1-Methylnaphthalene	70.2	3.52	7.05	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
2-Methylnaphthalene	67.1	3.52	7.05	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Naphthalene	637	3.52	7.05	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Phenanthrene	14.9	3.52	7.05	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Pyrene	ND	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	

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Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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-061323-03 (A3F1132-03)		Matrix: WG			Batch: 23F0532			
Carbazole	23.4	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Dibenzofuran	7.35	1.76	3.52	ug/L	100	06/15/23 21:31	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	06/15/23 21:31	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		122 %		80-132 %	100	06/15/23 21:31	EPA 8270E LVI	S-05
GS-061323-04 (A3F1132-04)		Matrix: WG			Batch: 23F0532			
Acenaphthene	267	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Acenaphthylene	20.0	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Anthracene	9.05	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Benz(a)anthracene	ND	0.923	1.85	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.923	1.85	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.923	1.85	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.923	1.85	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Chrysene	ND	0.923	1.85	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.923	1.85	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Fluoranthene	12.6	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Fluorene	72.8	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.923	1.85	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
1-Methylnaphthalene	819	3.69	7.38	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
2-Methylnaphthalene	1140	3.69	7.38	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Naphthalene	1280	3.69	7.38	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Phenanthrene	92.5	3.69	7.38	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Pyrene	13.2	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Carbazole	115	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Dibenzofuran	20.1	1.85	3.69	ug/L	100	06/15/23 22:04	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	06/15/23 22:04	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		108 %		80-132 %	100	06/15/23 22:04	EPA 8270E LVI	S-05

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-01 (A3F1132-01)		Matrix: WG						
Batch: 23F0834								
Aluminum	ND	25.0	50.0	ug/L	1	06/26/23 19:24	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	06/26/23 19:24	EPA 6020B	
Arsenic	0.842	0.500	1.00	ug/L	1	06/26/23 19:24	EPA 6020B	J
Barium	12.0	1.00	2.00	ug/L	1	06/26/23 19:24	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	06/26/23 19:24	EPA 6020B	
Chromium	2.90	1.00	2.00	ug/L	1	06/26/23 19:24	EPA 6020B	
Copper	1.05	1.00	2.00	ug/L	1	06/26/23 19:24	EPA 6020B	J
Iron	4380	25.0	50.0	ug/L	1	06/26/23 19:24	EPA 6020B	
Manganese	325	0.500	1.00	ug/L	1	06/26/23 19:24	EPA 6020B	
Nickel	6.00	1.00	2.00	ug/L	1	06/26/23 19:24	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	06/26/23 19:24	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	06/26/23 19:24	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	06/26/23 19:24	EPA 6020B	
Vanadium	1.30	1.00	2.00	ug/L	1	06/26/23 19:24	EPA 6020B	J
Zinc	ND	2.00	4.00	ug/L	1	06/26/23 19:24	EPA 6020B	
GS-061323-01 (A3F1132-01RE1)		Matrix: WG						
Batch: 23F0834								
Beryllium	ND	0.100	0.200	ug/L	1	06/28/23 11:23	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	06/28/23 11:23	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	06/28/23 11:23	EPA 6020B	
GS-061323-02 (A3F1132-02)		Matrix: WG						
Batch: 23F0834								
Aluminum	ND	25.0	50.0	ug/L	1	06/26/23 19:50	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	06/26/23 19:50	EPA 6020B	
Arsenic	7.29	0.500	1.00	ug/L	1	06/26/23 19:50	EPA 6020B	
Barium	145	1.00	2.00	ug/L	1	06/26/23 19:50	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	06/26/23 19:50	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	06/26/23 19:50	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	06/26/23 19:50	EPA 6020B	
Iron	41400	25.0	50.0	ug/L	1	06/26/23 19:50	EPA 6020B	
Nickel	1.06	1.00	2.00	ug/L	1	06/26/23 19:50	EPA 6020B	J

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-02 (A3F1132-02)		Matrix: WG						
Selenium	ND	0.500	1.00	ug/L	1	06/26/23 19:50	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	06/26/23 19:50	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	06/26/23 19:50	EPA 6020B	
Vanadium	1.14	1.00	2.00	ug/L	1	06/26/23 19:50	EPA 6020B	J
Zinc	2.63	2.00	4.00	ug/L	1	06/26/23 19:50	EPA 6020B	J
GS-061323-02 (A3F1132-02RE1)		Matrix: WG						
Batch: 23F0834								
Beryllium	ND	0.100	0.200	ug/L	1	06/27/23 22:33	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	06/27/23 22:33	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	06/27/23 22:33	EPA 6020B	
GS-061323-02 (A3F1132-02RE2)		Matrix: WG						
Batch: 23F0834								
Manganese	5300	5.00	10.0	ug/L	10	06/27/23 22:49	EPA 6020B	
GS-061323-03 (A3F1132-03)		Matrix: WG						
Batch: 23F0834								
Aluminum	ND	25.0	50.0	ug/L	1	06/26/23 19:56	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	06/26/23 19:56	EPA 6020B	
Arsenic	7.25	0.500	1.00	ug/L	1	06/26/23 19:56	EPA 6020B	
Barium	145	1.00	2.00	ug/L	1	06/26/23 19:56	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	06/26/23 19:56	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	06/26/23 19:56	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	06/26/23 19:56	EPA 6020B	
Iron	41700	25.0	50.0	ug/L	1	06/26/23 19:56	EPA 6020B	
Nickel	1.23	1.00	2.00	ug/L	1	06/26/23 19:56	EPA 6020B	J
Selenium	ND	0.500	1.00	ug/L	1	06/26/23 19:56	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	06/26/23 19:56	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	06/26/23 19:56	EPA 6020B	
Vanadium	1.13	1.00	2.00	ug/L	1	06/26/23 19:56	EPA 6020B	J
Zinc	3.71	2.00	4.00	ug/L	1	06/26/23 19:56	EPA 6020B	J
GS-061323-03 (A3F1132-03RE1)		Matrix: WG						
Batch: 23F0834								

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ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-03 (A3F1132-03RE1)				Matrix: WG				
Beryllium	ND	0.100	0.200	ug/L	1	06/27/23 22:54	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	06/27/23 22:54	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	06/27/23 22:54	EPA 6020B	
GS-061323-03 (A3F1132-03RE2)				Matrix: WG				
Batch: 23F0834								
Manganese	5190	5.00	10.0	ug/L	10	06/27/23 22:59	EPA 6020B	
GS-061323-04 (A3F1132-04)				Matrix: WG				
Batch: 23F0834								
Aluminum	ND	25.0	50.0	ug/L	1	06/26/23 20:02	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	06/26/23 20:02	EPA 6020B	
Arsenic	0.698	0.500	1.00	ug/L	1	06/26/23 20:02	EPA 6020B	J
Barium	28.3	1.00	2.00	ug/L	1	06/26/23 20:02	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	06/26/23 20:02	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	06/26/23 20:02	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	06/26/23 20:02	EPA 6020B	
Iron	28900	25.0	50.0	ug/L	1	06/26/23 20:02	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	06/26/23 20:02	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	06/26/23 20:02	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	06/26/23 20:02	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	06/26/23 20:02	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	06/26/23 20:02	EPA 6020B	
Zinc	2.81	2.00	4.00	ug/L	1	06/26/23 20:02	EPA 6020B	J
GS-061323-04 (A3F1132-04RE1)				Matrix: WG				
Batch: 23F0834								
Beryllium	ND	0.100	0.200	ug/L	1	06/27/23 23:04	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	06/27/23 23:04	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	06/27/23 23:04	EPA 6020B	
GS-061323-04 (A3F1132-04RE2)				Matrix: WG				
Batch: 23F0834								
Manganese	3350	5.00	10.0	ug/L	10	06/27/23 23:10	EPA 6020B	

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ORELAP ID: OR100062

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6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

ANALYTICAL SAMPLE RESULTS

Total Cyanide by Flow Analysis (Aqueous)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-01 (A3F1132-01)				Matrix: WG		Batch: 23F0720		
Total Cyanide	0.00690	0.00500	0.00500	mg/L	1	06/21/23 12:50	EPA 335.4	
GS-061323-02 (A3F1132-02)				Matrix: WG		Batch: 23F0720		PRES
Total Cyanide	0.489	0.0100	0.0100	mg/L	2	06/21/23 12:58	EPA 335.4	
GS-061323-03 (A3F1132-03)				Matrix: WG		Batch: 23F0720		PRES
Total Cyanide	0.497	0.0100	0.0100	mg/L	2	06/21/23 13:06	EPA 335.4	
GS-061323-04 (A3F1132-04)				Matrix: WG		Batch: 23F0720		
Total Cyanide	0.261	0.00500	0.00500	mg/L	1	06/21/23 13:08	EPA 335.4	

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829****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-061323-01 (A3F1132-01)				Matrix: WG		Batch: 23F0512		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	06/14/23 15:25	D6888-09	
GS-061323-02 (A3F1132-02)				Matrix: WG		Batch: 23F0512		
Available Cyanide	0.00317	0.00100	0.00200	mg/L	1	06/14/23 15:31	D6888-09	
GS-061323-03 (A3F1132-03)				Matrix: WG		Batch: 23F0512		
Available Cyanide	0.00329	0.00100	0.00200	mg/L	1	06/14/23 15:33	D6888-09	
GS-061323-04 (A3F1132-04)				Matrix: WG		Batch: 23F0512		
Available Cyanide	0.00274	0.00100	0.00200	mg/L	1	06/14/23 15:42	D6888-09	

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Project Manager: John Renda

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ANALYTICAL SAMPLE RESULTS

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-061323-01 (A3F1132-01)				Matrix: WG		Batch: 23F0590		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	06/16/23 15:21	D4282-02	
GS-061323-02 (A3F1132-02)				Matrix: WG		Batch: 23F0590		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	06/16/23 15:26	D4282-02	PRES
GS-061323-03 (A3F1132-03)				Matrix: WG		Batch: 23F0590		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	06/16/23 15:26	D4282-02	
GS-061323-04 (A3F1132-04)				Matrix: WG		Batch: 23F0590		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	06/16/23 15:26	D4282-02	

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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829****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 23F0490 - EPA 5030C						Water						
Blank (23F0490-BLK1)			Prepared: 06/14/23 09:10		Analyzed: 06/14/23 11:46							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0490 - EPA 5030C						Water						
Blank (23F0490-BLK1)						Prepared: 06/14/23 09:10 Analyzed: 06/14/23 11:46						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	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	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % Dilution: 1x												

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0490 - EPA 5030C						Water						
Blank (23F0490-BLK1)			Prepared: 06/14/23 09:10		Analyzed: 06/14/23 11:46							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						
LCS (23F0490-BS1)			Prepared: 06/14/23 09:10		Analyzed: 06/14/23 10:37							
EPA 8260D												
Acetone	41.7	10.0	20.0	ug/L	1	40.0	---	104	80-120%	---	---	
Acrylonitrile	20.1	1.00	2.00	ug/L	1	20.0	---	100	80-120%	---	---	
Benzene	19.7	0.100	0.200	ug/L	1	20.0	---	98	80-120%	---	---	
Bromobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Bromochloromethane	22.9	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Bromodichloromethane	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Bromoform	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Bromomethane	22.2	5.00	5.00	ug/L	1	20.0	---	111	80-120%	---	---	
2-Butanone (MEK)	39.7	5.00	10.0	ug/L	1	40.0	---	99	80-120%	---	---	
n-Butylbenzene	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
sec-Butylbenzene	22.1	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
tert-Butylbenzene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Carbon disulfide	19.0	5.00	10.0	ug/L	1	20.0	---	95	80-120%	---	---	
Carbon tetrachloride	23.3	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
Chlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Chloroethane	22.3	5.00	5.00	ug/L	1	20.0	---	111	80-120%	---	---	
Chloroform	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Chloromethane	18.9	2.50	5.00	ug/L	1	20.0	---	95	80-120%	---	---	
2-Chlorotoluene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
4-Chlorotoluene	23.1	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
Dibromochloromethane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.7	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.1	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Dibromomethane	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dichlorobenzene	20.7	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
1,3-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
1,4-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Dichlorodifluoromethane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1-Dichloroethane	21.6	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0490 - EPA 5030C						Water						
LCS (23F0490-BS1)				Prepared: 06/14/23 09:10		Analyzed: 06/14/23 10:37						
1,2-Dichloroethane (EDC)	22.1	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
1,1-Dichloroethene	21.9	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
trans-1,2-Dichloroethene	20.0	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,2-Dichloropropane	20.7	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
1,3-Dichloropropane	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
2,2-Dichloropropane	25.0	0.500	1.00	ug/L	1	20.0	---	125	80-120%	---	---	Q-56
1,1-Dichloropropene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
cis-1,3-Dichloropropene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
trans-1,3-Dichloropropene	23.3	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
Ethylbenzene	20.7	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Hexachlorobutadiene	20.0	2.50	5.00	ug/L	1	20.0	---	100	80-120%	---	---	
2-Hexanone	36.6	5.00	10.0	ug/L	1	40.0	---	92	80-120%	---	---	
Isopropylbenzene	18.9	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
4-Isopropyltoluene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Methylene chloride	18.9	5.00	10.0	ug/L	1	20.0	---	94	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	41.9	5.00	10.0	ug/L	1	40.0	---	105	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Naphthalene	16.4	1.00	2.00	ug/L	1	20.0	---	82	80-120%	---	---	
n-Propylbenzene	21.6	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Styrene	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,1,2,2-Tetrachloroethane	21.8	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
Tetrachloroethene (PCE)	19.2	0.200	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
Toluene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2,3-Trichlorobenzene	19.4	1.00	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2,4-Trichlorobenzene	19.1	1.00	2.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,1-Trichloroethane	22.7	0.200	0.400	ug/L	1	20.0	---	114	80-120%	---	---	
1,1,2-Trichloroethane	19.7	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Trichloroethene (TCE)	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
Trichlorofluoromethane	23.5	1.00	2.00	ug/L	1	20.0	---	118	80-120%	---	---	
1,2,3-Trichloropropane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2,4-Trimethylbenzene	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,3,5-Trimethylbenzene	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0490 - EPA 5030C						Water						
LCS (23F0490-BS1)			Prepared: 06/14/23 09:10		Analyzed: 06/14/23 10:37							
Vinyl chloride	20.5	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
m,p-Xylene	44.9	0.500	1.00	ug/L	1	40.0	---	112	80-120%	---	---	
o-Xylene	21.6	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"						

Duplicate (23F0490-DUP1)

Prepared: 06/14/23 09:10 Analyzed: 06/14/23 18:34

QC Source Sample: Non-SDG (A3F1125-02)

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

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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 23F0490 - EPA 5030C						Water						
Duplicate (23F0490-DUP1)			Prepared: 06/14/23 09:10		Analyzed: 06/14/23 18:34							
QC Source Sample: Non-SDG (A3F1125-02)												
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethane	2.00	2.00	4.00	ug/L	10	---	2.30	---	---	14	30%	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	21.5	2.00	4.00	ug/L	10	---	25.1	---	---	15	30%	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Hexanone	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Isopropylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Methylene chloride	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
n-Propylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Styrene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	39.2	2.00	4.00	ug/L	10	---	39.4	---	---	0.5	30%	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	

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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 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0490 - EPA 5030C						Water						
Duplicate (23F0490-DUP1)			Prepared: 06/14/23 09:10 Analyzed: 06/14/23 18:34									
QC Source Sample: Non-SDG (A3F1125-02)												
Trichloroethene (TCE)	112	2.00	4.00	ug/L	10	---	118	---	---	5	30%	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Vinyl chloride	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
m,p-Xylene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
o-Xylene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						

Matrix Spike (23F0490-MS1)

Prepared: 06/14/23 09:10 Analyzed: 06/14/23 17:25

QC Source Sample: Non-SDG (A3F1126-07)

EPA 8260D

Acetone	58.9	10.0	20.0	ug/L	1	40.0	ND	147	39-160%	---	---	
Acrylonitrile	21.0	1.00	2.00	ug/L	1	20.0	ND	105	63-135%	---	---	
Benzene	22.2	0.100	0.200	ug/L	1	20.0	ND	111	79-120%	---	---	
Bromobenzene	19.6	0.250	0.500	ug/L	1	20.0	ND	98	80-120%	---	---	
Bromochloromethane	24.6	0.500	1.00	ug/L	1	20.0	ND	123	78-123%	---	---	
Bromodichloromethane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	79-125%	---	---	
Bromoform	21.8	0.500	1.00	ug/L	1	20.0	ND	109	66-130%	---	---	
Bromomethane	24.3	5.00	5.00	ug/L	1	20.0	ND	121	53-141%	---	---	
2-Butanone (MEK)	41.5	5.00	10.0	ug/L	1	40.0	ND	104	56-143%	---	---	
n-Butylbenzene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	75-128%	---	---	
sec-Butylbenzene	23.5	0.500	1.00	ug/L	1	20.0	ND	117	77-126%	---	---	
tert-Butylbenzene	22.6	0.500	1.00	ug/L	1	20.0	ND	113	78-124%	---	---	
Carbon disulfide	22.0	5.00	10.0	ug/L	1	20.0	ND	110	64-133%	---	---	
Carbon tetrachloride	23.6	0.500	1.00	ug/L	1	20.0	ND	118	72-136%	---	---	
Chlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
Chloroethane	23.1	5.00	5.00	ug/L	1	20.0	ND	116	60-138%	---	---	
Chloroform	21.4	0.500	1.00	ug/L	1	20.0	ND	107	79-124%	---	---	
Chloromethane	21.9	2.50	5.00	ug/L	1	20.0	ND	110	50-139%	---	---	

Apex Laboratories

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Darwin Thomas, Business Development Director



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Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0490 - EPA 5030C						Water						
Matrix Spike (23F0490-MS1)			Prepared: 06/14/23 09:10		Analyzed: 06/14/23 17:25							
QC Source Sample: Non-SDG (A3F1126-07)												
2-Chlorotoluene	19.9	0.500	1.00	ug/L	1	20.0	ND	100	79-122%	---	---	
4-Chlorotoluene	22.8	0.500	1.00	ug/L	1	20.0	ND	114	78-122%	---	---	
Dibromochloromethane	20.6	0.500	1.00	ug/L	1	20.0	ND	103	74-126%	---	---	
1,2-Dibromo-3-chloropropane	18.1	2.50	5.00	ug/L	1	20.0	ND	90	62-128%	---	---	
1,2-Dibromoethane (EDB)	19.5	0.250	0.500	ug/L	1	20.0	ND	97	77-121%	---	---	
Dibromomethane	21.0	0.500	1.00	ug/L	1	20.0	ND	105	79-123%	---	---	
1,2-Dichlorobenzene	21.5	0.250	0.500	ug/L	1	20.0	ND	108	80-120%	---	---	
1,3-Dichlorobenzene	21.2	0.250	0.500	ug/L	1	20.0	ND	106	80-120%	---	---	
1,4-Dichlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	ND	102	79-120%	---	---	
Dichlorodifluoromethane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	32-152%	---	---	
1,1-Dichloroethane	23.8	0.200	0.400	ug/L	1	20.0	0.850	115	77-125%	---	---	
1,2-Dichloroethane (EDC)	21.7	0.200	0.400	ug/L	1	20.0	ND	108	73-128%	---	---	
1,1-Dichloroethene	23.3	0.200	0.400	ug/L	1	20.0	ND	116	71-131%	---	---	
cis-1,2-Dichloroethene	37.2	0.200	0.400	ug/L	1	20.0	14.3	114	78-123%	---	---	
trans-1,2-Dichloroethene	22.4	0.200	0.400	ug/L	1	20.0	ND	112	75-124%	---	---	
1,2-Dichloropropane	22.4	0.250	0.500	ug/L	1	20.0	ND	112	78-122%	---	---	
1,3-Dichloropropane	21.4	0.500	1.00	ug/L	1	20.0	ND	107	80-120%	---	---	
2,2-Dichloropropane	23.6	0.500	1.00	ug/L	1	20.0	ND	118	60-139%	---	---	Q-54a
1,1-Dichloropropene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	79-125%	---	---	
cis-1,3-Dichloropropene	20.5	0.500	1.00	ug/L	1	20.0	ND	102	75-124%	---	---	
trans-1,3-Dichloropropene	22.4	0.500	1.00	ug/L	1	20.0	ND	112	73-127%	---	---	
Ethylbenzene	21.3	0.250	0.500	ug/L	1	20.0	ND	106	79-121%	---	---	
Hexachlorobutadiene	19.8	2.50	5.00	ug/L	1	20.0	ND	99	66-134%	---	---	
2-Hexanone	37.7	5.00	10.0	ug/L	1	40.0	ND	94	57-139%	---	---	
Isopropylbenzene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	72-131%	---	---	
4-Isopropyltoluene	20.2	0.500	1.00	ug/L	1	20.0	ND	101	77-127%	---	---	
Methylene chloride	19.6	5.00	10.0	ug/L	1	20.0	ND	98	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	41.3	5.00	10.0	ug/L	1	40.0	ND	103	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	21.4	0.500	1.00	ug/L	1	20.0	ND	107	71-124%	---	---	
Naphthalene	17.6	1.00	2.00	ug/L	1	20.0	ND	88	61-128%	---	---	
n-Propylbenzene	22.2	0.250	0.500	ug/L	1	20.0	ND	111	76-126%	---	---	
Styrene	19.5	0.500	1.00	ug/L	1	20.0	ND	98	78-123%	---	---	
1,1,1,2-Tetrachloroethane	20.1	0.200	0.400	ug/L	1	20.0	ND	101	78-124%	---	---	

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Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0490 - EPA 5030C						Water						
Matrix Spike (23F0490-MS1)			Prepared: 06/14/23 09:10 Analyzed: 06/14/23 17:25									
QC Source Sample: Non-SDG (A3F1126-07)												
1,1,2,2-Tetrachloroethane	21.9	0.250	0.500	ug/L	1	20.0	ND	109	71-121%	---	---	
Tetrachloroethene (PCE)	28.9	0.200	0.400	ug/L	1	20.0	9.97	95	74-129%	---	---	
Toluene	20.9	0.500	1.00	ug/L	1	20.0	ND	104	80-121%	---	---	
1,2,3-Trichlorobenzene	19.5	1.00	2.00	ug/L	1	20.0	ND	97	69-129%	---	---	
1,2,4-Trichlorobenzene	19.1	1.00	2.00	ug/L	1	20.0	ND	96	69-130%	---	---	
1,1,1-Trichloroethane	23.3	0.200	0.400	ug/L	1	20.0	ND	116	74-131%	---	---	
1,1,2-Trichloroethane	20.1	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
Trichloroethene (TCE)	25.2	0.200	0.400	ug/L	1	20.0	5.21	100	79-123%	---	---	
Trichlorofluoromethane	24.3	1.00	2.00	ug/L	1	20.0	ND	121	65-141%	---	---	
1,2,3-Trichloropropane	20.6	0.500	1.00	ug/L	1	20.0	ND	103	73-122%	---	---	
1,2,4-Trimethylbenzene	20.4	0.500	1.00	ug/L	1	20.0	ND	102	76-124%	---	---	
1,3,5-Trimethylbenzene	22.5	0.500	1.00	ug/L	1	20.0	ND	113	75-124%	---	---	
Vinyl chloride	22.8	0.200	0.400	ug/L	1	20.0	ND	114	58-137%	---	---	
m,p-Xylene	45.8	0.500	1.00	ug/L	1	40.0	ND	114	80-121%	---	---	
o-Xylene	22.0	0.250	0.500	ug/L	1	20.0	ND	110	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						

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Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0538 - EPA 5030C						Water						
Blank (23F0538-BLK1)			Prepared: 06/15/23 08:22		Analyzed: 06/15/23 10:56							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0538 - EPA 5030C						Water						
Blank (23F0538-BLK1)						Prepared: 06/15/23 08:22 Analyzed: 06/15/23 10:56						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	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	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 96 % Limits: 80-120 % Dilution: 1x												

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F0538 - EPA 5030C						Water						
Blank (23F0538-BLK1)			Prepared: 06/15/23 08:22 Analyzed: 06/15/23 10:56									
Surr: Toluene-d8 (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
LCS (23F0538-BS1)			Prepared: 06/15/23 08:22 Analyzed: 06/15/23 10:00									
EPA 8260D												
Acetone	41.5	10.0	20.0	ug/L	1	40.0	---	104	80-120%	---	---	
Acrylonitrile	20.2	1.00	2.00	ug/L	1	20.0	---	101	80-120%	---	---	
Benzene	19.6	0.100	0.200	ug/L	1	20.0	---	98	80-120%	---	---	
Bromobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Bromochloromethane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromodichloromethane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromoform	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Bromomethane	22.5	5.00	5.00	ug/L	1	20.0	---	112	80-120%	---	---	
2-Butanone (MEK)	39.5	5.00	10.0	ug/L	1	40.0	---	99	80-120%	---	---	
n-Butylbenzene	22.5	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
sec-Butylbenzene	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
tert-Butylbenzene	22.7	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Carbon disulfide	19.4	5.00	10.0	ug/L	1	20.0	---	97	80-120%	---	---	
Carbon tetrachloride	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
Chlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Chloroethane	22.7	5.00	5.00	ug/L	1	20.0	---	114	80-120%	---	---	
Chloroform	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	19.8	2.50	5.00	ug/L	1	20.0	---	99	80-120%	---	---	
2-Chlorotoluene	18.5	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
4-Chlorotoluene	23.1	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Dibromochloromethane	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2-Dibromo-3-chloropropane	19.0	2.50	5.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Dibromomethane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,4-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Dichlorodifluoromethane	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,1-Dichloroethane	21.4	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0538 - EPA 5030C						Water						
LCS (23F0538-BS1)			Prepared: 06/15/23 08:22		Analyzed: 06/15/23 10:00							
1,2-Dichloroethane (EDC)	22.2	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	Q-56
1,1-Dichloroethene	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	21.2	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
trans-1,2-Dichloroethene	19.7	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloropropane	19.9	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,3-Dichloropropane	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
2,2-Dichloropropane	24.2	0.500	1.00	ug/L	1	20.0	---	121	80-120%	---	---	
1,1-Dichloropropene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
cis-1,3-Dichloropropene	22.1	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
trans-1,3-Dichloropropene	23.9	0.500	1.00	ug/L	1	20.0	---	119	80-120%	---	---	
Ethylbenzene	21.6	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Hexachlorobutadiene	20.3	2.50	5.00	ug/L	1	20.0	---	102	80-120%	---	---	
2-Hexanone	35.3	5.00	10.0	ug/L	1	40.0	---	88	80-120%	---	---	
Isopropylbenzene	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
4-Isopropyltoluene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Methylene chloride	18.7	5.00	10.0	ug/L	1	20.0	---	94	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	43.1	5.00	10.0	ug/L	1	40.0	---	108	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Naphthalene	16.2	1.00	2.00	ug/L	1	20.0	---	81	80-120%	---	---	
n-Propylbenzene	21.9	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
Styrene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.9	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
1,1,2,2-Tetrachloroethane	21.1	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Tetrachloroethene (PCE)	19.4	0.200	0.400	ug/L	1	20.0	---	97	80-120%	---	---	
Toluene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2,3-Trichlorobenzene	18.4	1.00	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,2,4-Trichlorobenzene	18.6	1.00	2.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,1,1-Trichloroethane	22.9	0.200	0.400	ug/L	1	20.0	---	114	80-120%	---	---	
1,1,2-Trichloroethane	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Trichloroethene (TCE)	18.5	0.200	0.400	ug/L	1	20.0	---	93	80-120%	---	---	
Trichlorofluoromethane	23.9	1.00	2.00	ug/L	1	20.0	---	119	80-120%	---	---	
1,2,3-Trichloropropane	21.3	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,2,4-Trimethylbenzene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,3,5-Trimethylbenzene	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0538 - EPA 5030C						Water						
LCS (23F0538-BS1)				Prepared: 06/15/23 08:22		Analyzed: 06/15/23 10:00						
Vinyl chloride	19.7	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
m,p-Xylene	46.6	0.500	1.00	ug/L	1	40.0	---	117	80-120%	---	---	
o-Xylene	22.2	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		89 %		80-120 %		"						
Duplicate (23F0538-DUP1)				Prepared: 06/15/23 08:22		Analyzed: 06/15/23 13:57						
QC Source Sample: Non-SDG (A3F1137-02)												
Acetone	ND	30.0	30.0	ug/L	1	---	ND	---	---	---	30%	R-02
Acrylonitrile	ND	69.0	69.0	ug/L	1	---	ND	---	---	---	30%	R-02
Benzene	1090	0.100	0.200	ug/L	1	---	1320	---	---	19	30%	E
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	11.0	11.0	ug/L	1	---	ND	---	---	---	30%	R-02
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	23.2	0.500	1.00	ug/L	1	---	23.8	---	---	3	30%	
sec-Butylbenzene	16.2	0.500	1.00	ug/L	1	---	15.2	---	---	6	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0538 - EPA 5030C						Water						
Duplicate (23F0538-DUP1)			Prepared: 06/15/23 08:22		Analyzed: 06/15/23 13:57							
QC Source Sample: Non-SDG (A3F1137-02)												
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	1.40	1.40	ug/L	1	---	ND	---	---	---	30%	R-02
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	1.10	1.10	ug/L	1	---	ND	---	---	---	30%	R-02
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	1.00	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	533	0.250	0.500	ug/L	1	---	758	---	---	35	30%	E, Q-03
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	89.2	0.500	1.00	ug/L	1	---	97.4	---	---	9	30%	
4-Isopropyltoluene	0.860	0.500	1.00	ug/L	1	---	1.03	---	---	18	30%	J
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	250	1.00	2.00	ug/L	1	---	292	---	---	16	30%	E
n-Propylbenzene	223	0.250	0.500	ug/L	1	---	244	---	---	9	30%	E
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	108	0.500	1.00	ug/L	1	---	120	---	---	11	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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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 23F0538 - EPA 5030C							Water					
Duplicate (23F0538-DUP1)			Prepared: 06/15/23 08:22 Analyzed: 06/15/23 13:57									
QC Source Sample: Non-SDG (A3F1137-02)												
Trichloroethene (TCE)	ND	0.400	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	23.2	0.500	1.00	ug/L	1	---	23.7	---	---	2	30%	
1,3,5-Trimethylbenzene	1.75	0.500	1.00	ug/L	1	---	1.74	---	---	0.6	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	232	0.500	1.00	ug/L	1	---	283	---	---	20	30%	
o-Xylene	29.6	0.250	0.500	ug/L	1	---	35.8	---	---	19	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 123 %		Limits: 80-120 %		Dilution: 1x		S-06				
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		107 %		80-120 %		"						

Matrix Spike (23F0538-MS1)

Prepared: 06/15/23 08:22 Analyzed: 06/15/23 19:37

QC Source Sample: GS-061323-01 (A3F1132-01RE1)

EPA 8260D												
Acetone	2090	500	1000	ug/L	50	2000	ND	105	39-160%	---	---	
Acrylonitrile	1090	50.0	100	ug/L	50	1000	ND	109	63-135%	---	---	
Benzene	8460	5.00	10.0	ug/L	50	1000	6850	161	79-120%	---	---	Q-03
Bromobenzene	1110	12.5	25.0	ug/L	50	1000	ND	111	80-120%	---	---	
Bromochloromethane	1180	25.0	50.0	ug/L	50	1000	ND	118	78-123%	---	---	
Bromodichloromethane	1130	25.0	50.0	ug/L	50	1000	ND	113	79-125%	---	---	
Bromoform	1080	25.0	50.0	ug/L	50	1000	ND	108	66-130%	---	---	
Bromomethane	1220	250	250	ug/L	50	1000	ND	122	53-141%	---	---	
2-Butanone (MEK)	2220	250	500	ug/L	50	2000	ND	111	56-143%	---	---	
n-Butylbenzene	1220	25.0	50.0	ug/L	50	1000	ND	122	75-128%	---	---	
sec-Butylbenzene	1240	25.0	50.0	ug/L	50	1000	ND	124	77-126%	---	---	
tert-Butylbenzene	1180	25.0	50.0	ug/L	50	1000	ND	118	78-124%	---	---	
Carbon disulfide	1150	250	500	ug/L	50	1000	ND	115	64-133%	---	---	
Carbon tetrachloride	1190	25.0	50.0	ug/L	50	1000	ND	119	72-136%	---	---	
Chlorobenzene	1060	12.5	25.0	ug/L	50	1000	ND	106	80-120%	---	---	
Chloroethane	1120	250	250	ug/L	50	1000	ND	112	60-138%	---	---	
Chloroform	1070	25.0	50.0	ug/L	50	1000	ND	107	79-124%	---	---	
Chloromethane	1090	125	250	ug/L	50	1000	ND	109	50-139%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0538 - EPA 5030C						Water						
Matrix Spike (23F0538-MS1)			Prepared: 06/15/23 08:22		Analyzed: 06/15/23 19:37							
QC Source Sample: GS-061323-01 (A3F1132-01RE1)												
2-Chlorotoluene	1080	25.0	50.0	ug/L	50	1000	ND	108	79-122%	---	---	Q-54
4-Chlorotoluene	1200	25.0	50.0	ug/L	50	1000	ND	120	78-122%	---	---	
Dibromochloromethane	1030	25.0	50.0	ug/L	50	1000	ND	103	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1040	125	250	ug/L	50	1000	ND	104	62-128%	---	---	
1,2-Dibromoethane (EDB)	1000	12.5	25.0	ug/L	50	1000	ND	100	77-121%	---	---	
Dibromomethane	1090	25.0	50.0	ug/L	50	1000	ND	109	79-123%	---	---	
1,2-Dichlorobenzene	1140	12.5	25.0	ug/L	50	1000	ND	114	80-120%	---	---	
1,3-Dichlorobenzene	1150	12.5	25.0	ug/L	50	1000	ND	115	80-120%	---	---	
1,4-Dichlorobenzene	1110	12.5	25.0	ug/L	50	1000	ND	111	79-120%	---	---	
Dichlorodifluoromethane	1080	25.0	50.0	ug/L	50	1000	ND	108	32-152%	---	---	
1,1-Dichloroethane	1160	10.0	20.0	ug/L	50	1000	ND	116	77-125%	---	---	
1,2-Dichloroethane (EDC)	1030	10.0	20.0	ug/L	50	1000	ND	103	73-128%	---	---	
1,1-Dichloroethene	1200	10.0	20.0	ug/L	50	1000	ND	120	71-131%	---	---	
cis-1,2-Dichloroethene	1160	10.0	20.0	ug/L	50	1000	ND	116	78-123%	---	---	
trans-1,2-Dichloroethene	1120	10.0	20.0	ug/L	50	1000	ND	112	75-124%	---	---	
1,2-Dichloropropane	1160	12.5	25.0	ug/L	50	1000	ND	116	78-122%	---	---	
1,3-Dichloropropane	1080	25.0	50.0	ug/L	50	1000	ND	108	80-120%	---	---	
2,2-Dichloropropane	1090	25.0	50.0	ug/L	50	1000	ND	109	60-139%	---	---	
1,1-Dichloropropene	1220	25.0	50.0	ug/L	50	1000	ND	122	79-125%	---	---	
cis-1,3-Dichloropropene	1000	25.0	50.0	ug/L	50	1000	ND	100	75-124%	---	---	
trans-1,3-Dichloropropene	1060	25.0	50.0	ug/L	50	1000	ND	106	73-127%	---	---	
Ethylbenzene	1110	12.5	25.0	ug/L	50	1000	31.5	108	79-121%	---	---	
Hexachlorobutadiene	1190	125	250	ug/L	50	1000	ND	119	66-134%	---	---	
2-Hexanone	1810	250	500	ug/L	50	2000	ND	91	57-139%	---	---	
Isopropylbenzene	1020	25.0	50.0	ug/L	50	1000	ND	102	72-131%	---	---	
4-Isopropyltoluene	1100	25.0	50.0	ug/L	50	1000	ND	110	77-127%	---	---	
Methylene chloride	1110	250	500	ug/L	50	1000	ND	111	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	2060	250	500	ug/L	50	2000	ND	103	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	1080	25.0	50.0	ug/L	50	1000	ND	108	71-124%	---	---	
Naphthalene	1200	50.0	100	ug/L	50	1000	184	102	61-128%	---	---	
n-Propylbenzene	1180	12.5	25.0	ug/L	50	1000	ND	118	76-126%	---	---	
Styrene	1030	25.0	50.0	ug/L	50	1000	ND	103	78-123%	---	---	
1,1,1,2-Tetrachloroethane	1010	10.0	20.0	ug/L	50	1000	ND	101	78-124%	---	---	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0538 - EPA 5030C						Water						
Matrix Spike (23F0538-MS1)			Prepared: 06/15/23 08:22 Analyzed: 06/15/23 19:37									
QC Source Sample: GS-061323-01 (A3F1132-01RE1)												
1,1,2,2-Tetrachloroethane	1130	12.5	25.0	ug/L	50	1000	ND	113	71-121%	---	---	
Tetrachloroethene (PCE)	1090	10.0	20.0	ug/L	50	1000	ND	109	74-129%	---	---	
Toluene	1640	25.0	50.0	ug/L	50	1000	546	109	80-121%	---	---	
1,2,3-Trichlorobenzene	1100	50.0	100	ug/L	50	1000	ND	110	69-129%	---	---	
1,2,4-Trichlorobenzene	1090	50.0	100	ug/L	50	1000	ND	109	69-130%	---	---	
1,1,1-Trichloroethane	1150	10.0	20.0	ug/L	50	1000	ND	115	74-131%	---	---	
1,1,2-Trichloroethane	994	12.5	25.0	ug/L	50	1000	ND	99	80-120%	---	---	
Trichloroethene (TCE)	1160	10.0	20.0	ug/L	50	1000	ND	116	79-123%	---	---	
Trichlorofluoromethane	1180	50.0	100	ug/L	50	1000	ND	118	65-141%	---	---	
1,2,3-Trichloropropane	1020	25.0	50.0	ug/L	50	1000	ND	102	73-122%	---	---	
1,2,4-Trimethylbenzene	1090	25.0	50.0	ug/L	50	1000	ND	109	76-124%	---	---	
1,3,5-Trimethylbenzene	1200	25.0	50.0	ug/L	50	1000	ND	120	75-124%	---	---	
Vinyl chloride	1190	10.0	20.0	ug/L	50	1000	ND	119	58-137%	---	---	
m,p-Xylene	2390	25.0	50.0	ug/L	50	2000	78.0	116	80-121%	---	---	
o-Xylene	1200	12.5	25.0	ug/L	50	1000	30.5	117	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						

Matrix Spike Dup (23F0538-MSD1)

Prepared: 06/15/23 08:22 Analyzed: 06/15/23 19:59

QC Source Sample: GS-061323-01 (A3F1132-01RE1)

EPA 8260D

Acetone	1950	500	1000	ug/L	50	2000	ND	98	39-160%	7	30%	Q-03
Acrylonitrile	1070	50.0	100	ug/L	50	1000	ND	107	63-135%	2	30%	
Benzene	8080	5.00	10.0	ug/L	50	1000	6850	122	79-120%	5	30%	
Bromobenzene	1050	12.5	25.0	ug/L	50	1000	ND	105	80-120%	5	30%	
Bromochloromethane	1160	25.0	50.0	ug/L	50	1000	ND	116	78-123%	1	30%	
Bromodichloromethane	1110	25.0	50.0	ug/L	50	1000	ND	111	79-125%	1	30%	
Bromoform	1080	25.0	50.0	ug/L	50	1000	ND	108	66-130%	0.1	30%	
Bromomethane	1230	250	250	ug/L	50	1000	ND	123	53-141%	0.5	30%	
2-Butanone (MEK)	2130	250	500	ug/L	50	2000	ND	106	56-143%	4	30%	
n-Butylbenzene	1190	25.0	50.0	ug/L	50	1000	ND	119	75-128%	2	30%	
sec-Butylbenzene	1210	25.0	50.0	ug/L	50	1000	ND	121	77-126%	3	30%	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0538 - EPA 5030C						Water						
Matrix Spike Dup (23F0538-MSD1)			Prepared: 06/15/23 08:22		Analyzed: 06/15/23 19:59							
QC Source Sample: GS-061323-01 (A3F1132-01RE1)												
tert-Butylbenzene	1130	25.0	50.0	ug/L	50	1000	ND	113	78-124%	4	30%	
Carbon disulfide	1160	250	500	ug/L	50	1000	ND	116	64-133%	0.6	30%	
Carbon tetrachloride	1200	25.0	50.0	ug/L	50	1000	ND	120	72-136%	0.3	30%	
Chlorobenzene	1040	12.5	25.0	ug/L	50	1000	ND	104	80-120%	1	30%	
Chloroethane	1040	250	250	ug/L	50	1000	ND	104	60-138%	8	30%	
Chloroform	1030	25.0	50.0	ug/L	50	1000	ND	103	79-124%	3	30%	
Chloromethane	1120	125	250	ug/L	50	1000	ND	112	50-139%	3	30%	
2-Chlorotoluene	1050	25.0	50.0	ug/L	50	1000	ND	105	79-122%	4	30%	
4-Chlorotoluene	1150	25.0	50.0	ug/L	50	1000	ND	115	78-122%	4	30%	
Dibromochloromethane	992	25.0	50.0	ug/L	50	1000	ND	99	74-126%	4	30%	
1,2-Dibromo-3-chloropropane	1020	125	250	ug/L	50	1000	ND	102	62-128%	2	30%	
1,2-Dibromoethane (EDB)	959	12.5	25.0	ug/L	50	1000	ND	96	77-121%	4	30%	
Dibromomethane	1040	25.0	50.0	ug/L	50	1000	ND	104	79-123%	4	30%	
1,2-Dichlorobenzene	1090	12.5	25.0	ug/L	50	1000	ND	109	80-120%	4	30%	
1,3-Dichlorobenzene	1110	12.5	25.0	ug/L	50	1000	ND	111	80-120%	4	30%	
1,4-Dichlorobenzene	1070	12.5	25.0	ug/L	50	1000	ND	107	79-120%	4	30%	
Dichlorodifluoromethane	1050	25.0	50.0	ug/L	50	1000	ND	105	32-152%	3	30%	
1,1-Dichloroethane	1160	10.0	20.0	ug/L	50	1000	ND	116	77-125%	0.04	30%	
1,2-Dichloroethane (EDC)	1020	10.0	20.0	ug/L	50	1000	ND	102	73-128%	1	30%	
1,1-Dichloroethene	1180	10.0	20.0	ug/L	50	1000	ND	118	71-131%	1	30%	
cis-1,2-Dichloroethene	1190	10.0	20.0	ug/L	50	1000	ND	119	78-123%	3	30%	
trans-1,2-Dichloroethene	1140	10.0	20.0	ug/L	50	1000	ND	114	75-124%	2	30%	
1,2-Dichloropropane	1170	12.5	25.0	ug/L	50	1000	ND	117	78-122%	1	30%	
1,3-Dichloropropane	1070	25.0	50.0	ug/L	50	1000	ND	107	80-120%	1	30%	
2,2-Dichloropropane	1080	25.0	50.0	ug/L	50	1000	ND	108	60-139%	1	30%	Q-54
1,1-Dichloropropene	1210	25.0	50.0	ug/L	50	1000	ND	121	79-125%	0.9	30%	
cis-1,3-Dichloropropene	998	25.0	50.0	ug/L	50	1000	ND	100	75-124%	0.3	30%	
trans-1,3-Dichloropropene	1020	25.0	50.0	ug/L	50	1000	ND	102	73-127%	4	30%	
Ethylbenzene	1080	12.5	25.0	ug/L	50	1000	31.5	105	79-121%	3	30%	
Hexachlorobutadiene	1100	125	250	ug/L	50	1000	ND	110	66-134%	8	30%	
2-Hexanone	1770	250	500	ug/L	50	2000	ND	88	57-139%	3	30%	
Isopropylbenzene	1000	25.0	50.0	ug/L	50	1000	ND	100	72-131%	1	30%	
4-Isopropyltoluene	1050	25.0	50.0	ug/L	50	1000	ND	105	77-127%	4	30%	

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ANALYTICAL REPORT

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0538 - EPA 5030C						Water						
Matrix Spike Dup (23F0538-MSD1)			Prepared: 06/15/23 08:22 Analyzed: 06/15/23 19:59									
QC Source Sample: GS-061323-01 (A3F1132-01RE1)												
Methylene chloride	1120	250	500	ug/L	50	1000	ND	112	74-124%	1	30%	
4-Methyl-2-pentanone (MiBK)	2020	250	500	ug/L	50	2000	ND	101	67-130%	2	30%	
Methyl tert-butyl ether (MTBE)	1080	25.0	50.0	ug/L	50	1000	ND	108	71-124%	0.4	30%	
Naphthalene	1190	50.0	100	ug/L	50	1000	184	100	61-128%	1	30%	
n-Propylbenzene	1150	12.5	25.0	ug/L	50	1000	ND	115	76-126%	3	30%	
Styrene	992	25.0	50.0	ug/L	50	1000	ND	99	78-123%	4	30%	
1,1,1,2-Tetrachloroethane	975	10.0	20.0	ug/L	50	1000	ND	98	78-124%	4	30%	
1,1,2,2-Tetrachloroethane	1080	12.5	25.0	ug/L	50	1000	ND	108	71-121%	4	30%	
Tetrachloroethene (PCE)	1090	10.0	20.0	ug/L	50	1000	ND	109	74-129%	0.5	30%	
Toluene	1580	25.0	50.0	ug/L	50	1000	546	103	80-121%	4	30%	
1,2,3-Trichlorobenzene	1070	50.0	100	ug/L	50	1000	ND	107	69-129%	3	30%	
1,2,4-Trichlorobenzene	1080	50.0	100	ug/L	50	1000	ND	108	69-130%	1	30%	
1,1,1-Trichloroethane	1130	10.0	20.0	ug/L	50	1000	ND	113	74-131%	2	30%	
1,1,2-Trichloroethane	988	12.5	25.0	ug/L	50	1000	ND	99	80-120%	0.6	30%	
Trichloroethene (TCE)	1150	10.0	20.0	ug/L	50	1000	ND	115	79-123%	0.3	30%	
Trichlorofluoromethane	1170	50.0	100	ug/L	50	1000	ND	117	65-141%	2	30%	
1,2,3-Trichloropropane	1030	25.0	50.0	ug/L	50	1000	ND	103	73-122%	1	30%	
1,2,4-Trimethylbenzene	1060	25.0	50.0	ug/L	50	1000	ND	106	76-124%	3	30%	
1,3,5-Trimethylbenzene	1160	25.0	50.0	ug/L	50	1000	ND	116	75-124%	4	30%	
Vinyl chloride	1210	10.0	20.0	ug/L	50	1000	ND	121	58-137%	2	30%	
m,p-Xylene	2340	25.0	50.0	ug/L	50	2000	78.0	113	80-121%	2	30%	
o-Xylene	1170	12.5	25.0	ug/L	50	1000	30.5	114	78-122%	3	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

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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 23F0902 - EPA 5030C						Water						
Blank (23F0902-BLK1)			Prepared: 06/25/23 11:48 Analyzed: 06/25/23 15:16									
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: 109 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						
LCS (23F0902-BS1)						Prepared: 06/25/23 11:48 Analyzed: 06/25/23 13:46						
EPA 8260D SIM												
1,1-Dichloroethene	0.226	0.0100	0.0200	ug/L	1	0.200	---	113	80-120%	---	---	
cis-1,2-Dichloroethene	0.239	0.0100	0.0200	ug/L	1	0.200	---	120	80-120%	---	---	
trans-1,2-Dichloroethene	0.227	0.0100	0.0200	ug/L	1	0.200	---	114	80-120%	---	---	
Trichloroethene (TCE)	0.189	0.0100	0.0200	ug/L	1	0.200	---	94	80-120%	---	---	
Vinyl chloride	0.235	0.0100	0.0200	ug/L	1	0.200	---	117	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
Duplicate (23F0902-DUP1)						Prepared: 06/25/23 11:48 Analyzed: 06/25/23 20:13						
QC Source Sample: Non-SDG (A3F1249-03)												
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: 107 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		86 %		80-120 %		"						
Matrix Spike (23F0902-MS1)						Prepared: 06/25/23 11:48 Analyzed: 06/25/23 16:10						

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0902 - EPA 5030C						Water						
Matrix Spike (23F0902-MS1)				Prepared: 06/25/23 11:48 Analyzed: 06/25/23 16:10								
QC Source Sample: GS-061323-01 (A3F1132-01)												
EPA 8260D SIM												
1,1-Dichloroethene	6.52	0.250	0.500	ug/L	25	5.00	ND	130	71-131%	---	---	
cis-1,2-Dichloroethene	6.70	0.250	0.500	ug/L	25	5.00	ND	134	78-123%	---	---	Q-01
trans-1,2-Dichloroethene	6.41	0.250	0.500	ug/L	25	5.00	ND	128	75-124%	---	---	Q-01
Trichloroethene (TCE)	5.11	0.250	0.500	ug/L	25	5.00	ND	102	79-123%	---	---	
Vinyl chloride	6.88	0.250	0.500	ug/L	25	5.00	ND	138	58-137%	---	---	Q-01
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
Matrix Spike Dup (23F0902-MSD1)				Prepared: 06/25/23 11:48 Analyzed: 06/25/23 16:37								
QC Source Sample: GS-061323-01 (A3F1132-01)												
EPA 8260D SIM												
1,1-Dichloroethene	6.75	0.250	0.500	ug/L	25	5.00	ND	135	71-131%	3	30%	Q-01
cis-1,2-Dichloroethene	7.00	0.250	0.500	ug/L	25	5.00	ND	140	78-123%	4	30%	Q-01
trans-1,2-Dichloroethene	6.71	0.250	0.500	ug/L	25	5.00	ND	134	75-124%	4	30%	Q-01
Trichloroethene (TCE)	5.19	0.250	0.500	ug/L	25	5.00	ND	104	79-123%	2	30%	
Vinyl chloride	7.02	0.250	0.500	ug/L	25	5.00	ND	140	58-137%	2	30%	Q-01
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0532 - EPA 3511 (Bottle Extraction)						Water						
Blank (23F0532-BLK1)			Prepared: 06/15/23 07:21		Analyzed: 06/15/23 13:53							
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)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 90 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		107 %		80-132 %		"						

LCS (23F0532-BS1)

Prepared: 06/15/23 07:21 Analyzed: 06/15/23 14:28

EPA 8270E LVI												
Acenaphthene	1.55	0.0160	0.0320	ug/L	1	1.60	---	97	80-120%	---	---	
Acenaphthylene	1.45	0.0160	0.0320	ug/L	1	1.60	---	91	80-124%	---	---	
Anthracene	1.53	0.0160	0.0320	ug/L	1	1.60	---	95	80-123%	---	---	
Benz(a)anthracene	1.51	0.00800	0.0160	ug/L	1	1.60	---	95	80-122%	---	---	
Benzo(a)pyrene	1.61	0.00800	0.0160	ug/L	1	1.60	---	100	80-129%	---	---	
Benzo(b)fluoranthene	1.62	0.00800	0.0160	ug/L	1	1.60	---	101	80-124%	---	---	
Benzo(k)fluoranthene	1.55	0.00800	0.0160	ug/L	1	1.60	---	97	80-125%	---	---	
Benzo(g,h,i)perylene	1.53	0.0160	0.0320	ug/L	1	1.60	---	96	80-120%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0532 - EPA 3511 (Bottle Extraction)						Water						
LCS (23F0532-BS1)			Prepared: 06/15/23 07:21		Analyzed: 06/15/23 14:28							
Chrysene	1.48	0.00800	0.0160	ug/L	1	1.60	---	93	80-120%	---	---	
Dibenz(a,h)anthracene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80-120%	---	---	
Fluoranthene	1.58	0.0160	0.0320	ug/L	1	1.60	---	99	80-126%	---	---	
Fluorene	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-121%	---	---	
1-Methylnaphthalene	1.48	0.0320	0.0640	ug/L	1	1.60	---	93	53-148%	---	---	
2-Methylnaphthalene	1.50	0.0320	0.0640	ug/L	1	1.60	---	94	48-150%	---	---	
Naphthalene	1.60	0.0320	0.0640	ug/L	1	1.60	---	100	78-120%	---	---	
Phenanthrene	1.50	0.0320	0.0640	ug/L	1	1.60	---	94	80-120%	---	---	
Pyrene	1.58	0.0160	0.0320	ug/L	1	1.60	---	99	80-125%	---	---	
Carbazole	1.58	0.0160	0.0320	ug/L	1	1.60	---	99	65-141%	---	---	
Dibenzofuran	1.59	0.0160	0.0320	ug/L	1	1.60	---	99	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 90 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		105 %		80-132 %		"						

Matrix Spike (23F0532-MS1)

Prepared: 06/15/23 07:21 Analyzed: 06/15/23 15:33

QC Source Sample: GS-061323-01 (A3F1132-01)

EPA 8270E LV1

Acenaphthene	5.79	5.09	5.09	ug/L	100	1.63	ND	355	80-120%	---	---	Q-11
Acenaphthylene	2.81	1.63	3.26	ug/L	100	1.63	ND	173	80-124%	---	---	Q-11, J
Anthracene	3.14	1.63	3.26	ug/L	100	1.63	1.90	76	80-123%	---	---	Q-11, J
Benz(a)anthracene	1.67	0.815	1.63	ug/L	100	1.63	ND	102	80-122%	---	---	
Benzo(a)pyrene	1.67	0.815	1.63	ug/L	100	1.63	ND	102	80-129%	---	---	
Benzo(b)fluoranthene	1.75	0.815	1.63	ug/L	100	1.63	ND	108	80-124%	---	---	
Benzo(k)fluoranthene	1.47	0.815	1.63	ug/L	100	1.63	ND	90	80-125%	---	---	J
Benzo(g,h,i)perylene	1.71	1.63	3.26	ug/L	100	1.63	ND	105	80-120%	---	---	J
Chrysene	1.79	0.815	1.63	ug/L	100	1.63	ND	110	80-120%	---	---	
Dibenz(a,h)anthracene	1.51	0.815	1.63	ug/L	100	1.63	ND	93	80-120%	---	---	J
Fluoranthene	2.49	1.63	3.26	ug/L	100	1.63	ND	152	80-126%	---	---	Q-11, J
Fluorene	3.30	1.63	3.26	ug/L	100	1.63	2.03	78	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.83	0.815	1.63	ug/L	100	1.63	ND	112	80-121%	---	---	
1-Methylnaphthalene	5.83	3.26	6.52	ug/L	100	1.63	4.68	70	53-148%	---	---	J
2-Methylnaphthalene	4.52	3.26	6.52	ug/L	100	1.63	ND	278	48-150%	---	---	Q-11, J
Naphthalene	184	3.26	6.52	ug/L	100	1.63	173	682	78-120%	---	---	Q-11

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829**

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 23F0532 - EPA 3511 (Bottle Extraction)							Water					
Matrix Spike (23F0532-MS1)			Prepared: 06/15/23 07:21		Analyzed: 06/15/23 15:33							
QC Source Sample: GS-061323-01 (A3F1132-01)												
Phenanthrene	4.52	3.26	6.52	ug/L	100	1.63	3.31	74	80-120%	---	---	Q-11, J
Pyrene	2.40	1.63	3.26	ug/L	100	1.63	ND	148	80-125%	---	---	Q-11, J
Carbazole	8.31	1.63	3.26	ug/L	100	1.63	6.62	103	65-141%	---	---	
Dibenzofuran	2.53	1.63	3.26	ug/L	100	1.63	ND	155	76-121%	---	---	Q-11, J
Surr: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %		Dilution: 100x		S-01				
Benzo(a)pyrene-d12 (Surr)		90 %		80-132 %		"		S-05				

Matrix Spike Dup (23F0532-MSD1)

Prepared: 06/15/23 07:21 Analyzed: 06/15/23 16:06

QC Source Sample: GS-061323-01 (A3F1132-01)**EPA 8270E LVI**

Acenaphthene	6.37	5.04	5.04	ug/L	100	1.61	ND	395	80-120%	10	30%	Q-11
Acenaphthylene	2.78	1.61	3.23	ug/L	100	1.61	ND	172	80-124%	1	30%	Q-11, J
Anthracene	2.82	1.61	3.23	ug/L	100	1.61	1.90	57	80-123%	11	30%	Q-11, J
Benz(a)anthracene	1.69	0.806	1.61	ug/L	100	1.61	ND	105	80-122%	1	30%	
Benzo(a)pyrene	1.57	0.806	1.61	ug/L	100	1.61	ND	98	80-129%	6	30%	J
Benzo(b)fluoranthene	1.69	0.806	1.61	ug/L	100	1.61	ND	105	80-124%	3	30%	
Benzo(k)fluoranthene	1.61	0.806	1.61	ug/L	100	1.61	ND	100	80-125%	9	30%	
Benzo(g,h,i)perylene	1.73	1.61	3.23	ug/L	100	1.61	ND	108	80-120%	1	30%	J
Chrysene	1.57	0.806	1.61	ug/L	100	1.61	ND	98	80-120%	13	30%	J
Dibenz(a,h)anthracene	1.61	0.806	1.61	ug/L	100	1.61	ND	100	80-120%	7	30%	
Fluoranthene	2.62	1.61	3.23	ug/L	100	1.61	ND	162	80-126%	5	30%	Q-11, J
Fluorene	3.67	1.61	3.23	ug/L	100	1.61	2.03	102	77-127%	11	30%	
Indeno(1,2,3-cd)pyrene	1.81	0.806	1.61	ug/L	100	1.61	ND	112	80-121%	1	30%	
1-Methylnaphthalene	6.21	3.23	6.45	ug/L	100	1.61	4.68	95	53-148%	6	30%	J
2-Methylnaphthalene	4.48	3.23	6.45	ug/L	100	1.61	ND	278	48-150%	1	30%	Q-11, J
Naphthalene	207	3.23	6.45	ug/L	100	1.61	173	2140	78-120%	12	30%	Q-11
Phenanthrene	5.32	3.23	6.45	ug/L	100	1.61	3.31	125	80-120%	16	30%	Q-11, J
Pyrene	2.42	1.61	3.23	ug/L	100	1.61	ND	150	80-125%	0.7	30%	Q-11, J
Carbazole	9.15	1.61	3.23	ug/L	100	1.61	6.62	157	65-141%	10	30%	Q-11
Dibenzofuran	2.62	1.61	3.23	ug/L	100	1.61	ND	162	76-121%	4	30%	Q-11, J
Surr: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %		Dilution: 100x		S-01				
Benzo(a)pyrene-d12 (Surr)		98 %		80-132 %		"		S-05				

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ANALYTICAL REPORT

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0834 - EPA 3015A						Water						
Blank (23F0834-BLK1)			Prepared: 06/22/23 14:28 Analyzed: 06/26/23 18:46									
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 (23F0834-BS1)

Prepared: 06/22/23 14:28 Analyzed: 06/26/23 18:52

EPA 6020B												
Aluminum	2850	25.0	50.0	ug/L	1	2780	---	103	80-120%	---	---	
Antimony	29.6	0.500	1.00	ug/L	1	27.8	---	107	80-120%	---	---	
Arsenic	54.9	0.500	1.00	ug/L	1	55.6	---	99	80-120%	---	---	
Barium	57.9	1.00	2.00	ug/L	1	55.6	---	104	80-120%	---	---	
Beryllium	25.1	0.100	0.200	ug/L	1	27.8	---	91	80-120%	---	---	
Cadmium	56.4	0.100	0.200	ug/L	1	55.6	---	102	80-120%	---	---	
Chromium	52.9	1.00	2.00	ug/L	1	55.6	---	95	80-120%	---	---	
Copper	57.0	1.00	2.00	ug/L	1	55.6	---	103	80-120%	---	---	
Iron	2940	25.0	50.0	ug/L	1	2780	---	106	80-120%	---	---	
Lead	55.7	0.110	0.200	ug/L	1	55.6	---	100	80-120%	---	---	
Manganese	56.4	0.500	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Mercury	1.04	0.0400	0.0800	ug/L	1	1.11	---	93	80-120%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

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Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829**

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 23F0834 - EPA 3015A						Water						
LCS (23F0834-BS1)			Prepared: 06/22/23 14:28		Analyzed: 06/26/23 18:52							
Nickel	56.2	1.00	2.00	ug/L	1	55.6	---	101	80-120%	---	---	
Selenium	28.3	0.500	1.00	ug/L	1	27.8	---	102	80-120%	---	---	
Silver	27.4	0.100	0.200	ug/L	1	27.8	---	99	80-120%	---	---	
Thallium	29.6	0.100	0.200	ug/L	1	27.8	---	107	80-120%	---	---	
Vanadium	53.5	1.00	2.00	ug/L	1	55.6	---	96	80-120%	---	---	
Zinc	57.8	2.00	4.00	ug/L	1	55.6	---	104	80-120%	---	---	

Duplicate (23F0834-DUP1)

Prepared: 06/22/23 14:28 Analyzed: 06/26/23 19:31

QC Source Sample: GS-061323-01 (A3F1132-01)**EPA 6020B**

Aluminum	ND	25.0	50.0	ug/L	1	---	ND	---	---	---	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	0.830	0.500	1.00	ug/L	1	---	0.842	---	---	1	20%	J
Barium	12.0	1.00	2.00	ug/L	1	---	12.0	---	---	0.2	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	ND	1.00	2.00	ug/L	1	---	2.90	---	---	***	20%	Q-05
Copper	ND	1.00	2.00	ug/L	1	---	1.05	---	---	***	20%	
Iron	4270	25.0	50.0	ug/L	1	---	4380	---	---	3	20%	
Manganese	318	0.500	1.00	ug/L	1	---	325	---	---	2	20%	
Nickel	6.49	1.00	2.00	ug/L	1	---	6.00	---	---	8	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	1.27	1.00	2.00	ug/L	1	---	1.30	---	---	2	20%	J
Zinc	3.66	2.00	4.00	ug/L	1	---	ND	---	---	20%		J

Duplicate (23F0834-DUP2)

Prepared: 06/22/23 14:28 Analyzed: 06/27/23 22:18

QC Source Sample: GS-061323-01 (A3F1132-01RE1)**EPA 6020B**

Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	Q-16
Lead	ND	0.110	0.200	ug/L	1	---	ND	---	---	---	20%	Q-16
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	Q-16

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0834 - EPA 3015A						Water						
Matrix Spike (23F0834-MS1)			Prepared: 06/22/23 14:28		Analyzed: 06/26/23 19:37							
QC Source Sample: GS-061323-01 (A3F1132-01)												
EPA 6020B												
Aluminum	2950	25.0	50.0	ug/L	1	2780	ND	106	75-125%	---	---	
Antimony	30.5	0.500	1.00	ug/L	1	27.8	ND	110	75-125%	---	---	
Arsenic	57.2	0.500	1.00	ug/L	1	55.6	0.842	101	75-125%	---	---	
Barium	71.0	1.00	2.00	ug/L	1	55.6	12.0	106	75-125%	---	---	
Cadmium	57.4	0.100	0.200	ug/L	1	55.6	ND	103	75-125%	---	---	
Chromium	54.7	1.00	2.00	ug/L	1	55.6	2.90	93	75-125%	---	---	
Copper	58.9	1.00	2.00	ug/L	1	55.6	1.05	104	75-125%	---	---	
Iron	7410	25.0	50.0	ug/L	1	2780	4380	109	75-125%	---	---	
Manganese	375	0.500	1.00	ug/L	1	55.6	325	90	75-125%	---	---	
Nickel	63.9	1.00	2.00	ug/L	1	55.6	6.00	104	75-125%	---	---	
Selenium	29.2	0.500	1.00	ug/L	1	27.8	ND	105	75-125%	---	---	
Silver	27.9	0.100	0.200	ug/L	1	27.8	ND	101	75-125%	---	---	
Thallium	29.7	0.100	0.200	ug/L	1	27.8	ND	107	75-125%	---	---	
Vanadium	56.7	1.00	2.00	ug/L	1	55.6	1.30	100	75-125%	---	---	
Zinc	60.4	2.00	4.00	ug/L	1	55.6	ND	109	75-125%	---	---	

Matrix Spike (23F0834-MS2)

Prepared: 06/22/23 14:28 Analyzed: 06/27/23 22:23

QC Source Sample: GS-061323-01 (A3F1132-01RE1)

EPA 6020B

Beryllium	27.8	0.100	0.200	ug/L	1	27.8	ND	100	75-125%	---	---	Q-16
Lead	53.7	0.110	0.200	ug/L	1	55.6	ND	97	75-125%	---	---	Q-16
Mercury	1.00	0.0400	0.0800	ug/L	1	1.11	ND	90	75-125%	---	---	Q-16

Matrix Spike Dup (23F0834-MSD1)

Prepared: 06/22/23 14:28 Analyzed: 06/26/23 19:43

QC Source Sample: GS-061323-01 (A3F1132-01)

EPA 6020B

Aluminum	2970	25.0	50.0	ug/L	1	2780	ND	107	75-125%	0.6	20%	
Antimony	30.8	0.500	1.00	ug/L	1	27.8	ND	111	75-125%	0.9	20%	
Arsenic	56.8	0.500	1.00	ug/L	1	55.6	0.842	101	75-125%	0.7	20%	
Barium	71.6	1.00	2.00	ug/L	1	55.6	12.0	107	75-125%	0.9	20%	
Cadmium	56.5	0.100	0.200	ug/L	1	55.6	ND	102	75-125%	2	20%	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829****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 23F0834 - EPA 3015A						Water						
Matrix Spike Dup (23F0834-MSD1)			Prepared: 06/22/23 14:28 Analyzed: 06/26/23 19:43									
QC Source Sample: GS-061323-01 (A3F1132-01)												
Chromium	54.4	1.00	2.00	ug/L	1	55.6	2.90	93	75-125%	0.6	20%	
Copper	59.9	1.00	2.00	ug/L	1	55.6	1.05	106	75-125%	2	20%	
Iron	7390	25.0	50.0	ug/L	1	2780	4380	108	75-125%	0.3	20%	
Manganese	390	0.500	1.00	ug/L	1	55.6	325	117	75-125%	4	20%	
Nickel	63.7	1.00	2.00	ug/L	1	55.6	6.00	104	75-125%	0.3	20%	
Selenium	28.9	0.500	1.00	ug/L	1	27.8	ND	104	75-125%	1	20%	
Silver	28.4	0.100	0.200	ug/L	1	27.8	ND	102	75-125%	2	20%	
Thallium	30.4	0.100	0.200	ug/L	1	27.8	ND	109	75-125%	3	20%	
Vanadium	56.9	1.00	2.00	ug/L	1	55.6	1.30	100	75-125%	0.4	20%	
Zinc	61.4	2.00	4.00	ug/L	1	55.6	ND	111	75-125%	2	20%	
Matrix Spike Dup (23F0834-MSD2)			Prepared: 06/22/23 14:28 Analyzed: 06/27/23 22:28									
QC Source Sample: GS-061323-01 (A3F1132-01RE1)												
EPA 6020B												
Beryllium	28.7	0.100	0.200	ug/L	1	27.8	ND	103	75-125%	3	20%	Q-16
Lead	53.5	0.110	0.200	ug/L	1	55.6	ND	96	75-125%	0.2	20%	Q-16
Mercury	1.02	0.0400	0.0800	ug/L	1	1.11	ND	92	75-125%	2	20%	Q-16

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6720 SW Macadam Ave. Suite 125
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Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0720 - Lachat Micro Dist - aqueous						Water						
Blank (23F0720-BLK1)			Prepared: 06/20/23 12:04 Analyzed: 06/21/23 12:42									
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23F0720-BS1)			Prepared: 06/20/23 12:04 Analyzed: 06/21/23 12:44									
EPA 335.4												
Total Cyanide	0.239	0.00500	0.00500	mg/L	1	0.250	---	96	90-110%	---	---	
Duplicate (23F0720-DUP3)			Prepared: 06/20/23 12:04 Analyzed: 06/21/23 14:14									
QC Source Sample: Non-SDG (A3F1178-01RE1)												
Total Cyanide	0.579	0.0100	0.0100	mg/L	2	---	0.587	---	---	1	10%	Q-16
Matrix Spike (23F0720-MS1)			Prepared: 06/20/23 12:04 Analyzed: 06/21/23 12:52									
QC Source Sample: GS-061323-01 (A3F1132-01)												
EPA 335.4												
Total Cyanide	0.240	0.00500	0.00500	mg/L	1	0.250	0.00690	93	90-110%	---	---	
Matrix Spike (23F0720-MS3)			Prepared: 06/20/23 12:04 Analyzed: 06/21/23 14:16									
QC Source Sample: Non-SDG (A3F1178-01RE1)												
EPA 335.4												
Total Cyanide	0.813	0.0100	0.0100	mg/L	2	0.250	0.587	90	90-110%	---	---	Q-16
Matrix Spike Dup (23F0720-MSD1)			Prepared: 06/20/23 12:04 Analyzed: 06/21/23 12:54									
QC Source Sample: GS-061323-01 (A3F1132-01)												
EPA 335.4												
Total Cyanide	0.239	0.00500	0.00500	mg/L	1	0.250	0.00690	93	90-110%	0.5	10%	

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Project: Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0512 - Method Prep: Aq						Water						
Blank (23F0512-BLK1)			Prepared: 06/14/23 13:34 Analyzed: 06/14/23 15:12									
<u>D6888-09</u>												
Available Cyanide	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23F0512-BS1)			Prepared: 06/14/23 13:34 Analyzed: 06/14/23 15:13									
<u>D6888-09</u>												
Available Cyanide	0.0238	0.00100	0.00200	mg/L	1	0.0250	---	95	90-117%	---	---	
Matrix Spike (23F0512-MS1)			Prepared: 06/14/23 13:34 Analyzed: 06/14/23 15:27									
<u>QC Source Sample: GS-061323-01 (A3F1132-01)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0256	0.00101	0.00201	mg/L	1	0.0251	ND	102	82-130%	---	---	
Matrix Spike Dup (23F0512-MSD1)			Prepared: 06/14/23 13:34 Analyzed: 06/14/23 15:28									
<u>QC Source Sample: GS-061323-01 (A3F1132-01)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0272	0.00101	0.00201	mg/L	1	0.0251	ND	108	82-130%	6	11%	

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Project Manager: John Renda

Report ID:

A3F1132 - 09 03 23 0829

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 23F0590 - Microdiffusion						Water						
Blank (23F0590-BLK1)			Prepared: 06/16/23 08:50 Analyzed: 06/16/23 15:16									
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23F0590-BS1)			Prepared: 06/16/23 08:50 Analyzed: 06/16/23 15:16									
<u>D4282-02</u>												
Free Cyanide	0.0630	0.00250	0.00500	mg/L	1	0.0667	---	94	74-120%	---	---	
LCS Dup (23F0590-BSD1)			Prepared: 06/16/23 08:50 Analyzed: 06/16/23 15:21									
<u>D4282-02</u>												
Free Cyanide	0.0670	0.00250	0.00500	mg/L	1	0.0667	---	100	74-120%	6	20%	
Matrix Spike (23F0590-MS1)			Prepared: 06/16/23 08:50 Analyzed: 06/16/23 15:21									
<u>QC Source Sample: GS-061323-01 (A3F1132-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0573	0.00250	0.00500	mg/L	1	0.0667	ND	86	74-120%	---	---	
Matrix Spike Dup (23F0590-MSD1)			Prepared: 06/16/23 08:50 Analyzed: 06/16/23 15:21									
<u>QC Source Sample: GS-061323-01 (A3F1132-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0630	0.00250	0.00500	mg/L	1	0.0667	ND	94	74-120%	10	20%	

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829****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
Batch: 23F0538							
A3F1132-01RE1	WG	EPA 8260D	06/13/23 11:05	06/15/23 10:41	5mL/5mL	5mL/5mL	1.00
A3F1132-02RE1	WG	EPA 8260D	06/13/23 13:40	06/15/23 10:41	5mL/5mL	5mL/5mL	1.00
A3F1132-03RE1	WG	EPA 8260D	06/13/23 13:45	06/15/23 10:41	5mL/5mL	5mL/5mL	1.00
A3F1132-04RE1	WG	EPA 8260D	06/13/23 15:10	06/15/23 10:41	5mL/5mL	5mL/5mL	1.00
A3F1132-05	W	EPA 8260D	06/13/23 15:30	06/15/23 10:41	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
Batch: 23F0902							
A3F1132-01	WG	EPA 8260D SIM	06/13/23 11:05	06/25/23 11:49	5mL/5mL	5mL/5mL	1.00
A3F1132-02	WG	EPA 8260D SIM	06/13/23 13:40	06/25/23 11:49	5mL/5mL	5mL/5mL	1.00
A3F1132-03	WG	EPA 8260D SIM	06/13/23 13:45	06/25/23 11:49	5mL/5mL	5mL/5mL	1.00
A3F1132-04	WG	EPA 8260D SIM	06/13/23 15:10	06/25/23 11:49	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)**Prep: EPA 3511 (Bottle Extraction)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F0532							
A3F1132-01	WG	EPA 8270E LVI	06/13/23 11:05	06/15/23 07:21	120.76mL/5mL	125mL/5mL	1.04
A3F1132-02	WG	EPA 8270E LVI	06/13/23 13:40	06/15/23 07:21	108.69mL/5mL	125mL/5mL	1.15
A3F1132-03	WG	EPA 8270E LVI	06/13/23 13:45	06/15/23 07:21	113.53mL/5mL	125mL/5mL	1.10
A3F1132-04	WG	EPA 8270E LVI	06/13/23 15:10	06/15/23 07:21	108.33mL/5mL	125mL/5mL	1.15

Total Metals by EPA 6020B (ICPMS)**Prep: EPA 3015A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F0834							
A3F1132-01	WG	EPA 6020B	06/13/23 11:05	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-01RE1	WG	EPA 6020B	06/13/23 11:05	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-02	WG	EPA 6020B	06/13/23 13:40	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-02RE1	WG	EPA 6020B	06/13/23 13:40	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-02RE2	WG	EPA 6020B	06/13/23 13:40	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3F1132 - 09 03 23 0829****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
A3F1132-03	WG	EPA 6020B	06/13/23 13:45	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-03RE1	WG	EPA 6020B	06/13/23 13:45	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-03RE2	WG	EPA 6020B	06/13/23 13:45	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-04	WG	EPA 6020B	06/13/23 15:10	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-04RE1	WG	EPA 6020B	06/13/23 15:10	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00
A3F1132-04RE2	WG	EPA 6020B	06/13/23 15:10	06/22/23 14:28	45mL/50mL	45mL/50mL	1.00

Total Cyanide by Flow Analysis (Aqueous)**Prep: Lachat Micro Dist - aqueous**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F0720							
A3F1132-01	WG	EPA 335.4	06/13/23 11:05	06/20/23 12:04	6mL/6mL	6mL/6mL	1.00
A3F1132-02	WG	EPA 335.4	06/13/23 13:40	06/20/23 12:04	6mL/6mL	6mL/6mL	1.00
A3F1132-03	WG	EPA 335.4	06/13/23 13:45	06/20/23 12:04	6mL/6mL	6mL/6mL	1.00
A3F1132-04	WG	EPA 335.4	06/13/23 15:10	06/20/23 12:04	6mL/6mL	6mL/6mL	1.00

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F0512							
A3F1132-01	WG	D6888-09	06/13/23 11:05	06/14/23 13:34	5mL/5mL	5mL/5mL	1.00
A3F1132-02	WG	D6888-09	06/13/23 13:40	06/14/23 13:34	5mL/5mL	5mL/5mL	1.00
A3F1132-03	WG	D6888-09	06/13/23 13:45	06/14/23 13:34	5mL/5mL	5mL/5mL	1.00
A3F1132-04	WG	D6888-09	06/13/23 15:10	06/14/23 13:34	5mL/5mL	5mL/5mL	1.00

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry**Prep: Microdiffusion**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F0590							
A3F1132-01	WG	D4282-02	06/13/23 11:05	06/16/23 08:50	3mL/3mL	3mL/3mL	1.00
A3F1132-02	WG	D4282-02	06/13/23 13:40	06/16/23 08:50	3mL/3mL	3mL/3mL	1.00
A3F1132-03	WG	D4282-02	06/13/23 13:45	06/16/23 08:50	3mL/3mL	3mL/3mL	1.00
A3F1132-04	WG	D4282-02	06/13/23 15:10	06/16/23 08:50	3mL/3mL	3mL/3mL	1.00

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 2Q 2023 Perf. Mon.**

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

Project Manager: **John Renda**

Report ID:

A3F1132 - 09 03 23 0829

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.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- PRES** Incomplete field preservation. Additional preservative was added to adjust the pH within the appropriate range for this analysis.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-11** Spike recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-53** Internal Standard recoveries did not meet method acceptance criteria. QC sample results are estimated.
- 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 +5%. The results are reported as Estimated Values.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- 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.
- S-06** Surrogate recovery is outside of established control limits.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

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

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

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

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

Field Testing Parameters

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

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APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A3 F1132Project/Project #: Gasco-MGP Only Mon. Wells 2Q 2023 Perf

Delivery Info:

Date/time received: 6/14/23 @ 8:15 By: AK
Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 6/14/23 @ 9:10 By: AKChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>0.7</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>In</u>						

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

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 6/14/23 @ 11:07 By: AKAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments:COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☐ No ☒ NA ☐Comments: Ph 9 on 125ml brown NaOH poly for GS-02, GS-03Additional information: TB# 3315 GS-02, GS-03 in 6/14Labeled by: AKWitness: AKWCooler Inspected by: AK

Form Y-003 R-00

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