



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Wednesday, March 6, 2024

John Renda

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

RE: A3L1208 - Gasco-MGP Only Mon.Wells 4Q 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 A3L1208, which was received by the laboratory on 12/13/2023 at 7:55:00AM.

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

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

Cooler Receipt Information			
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>			
(See Cooler Receipt Form for details)			
Cooler #1	0.4	degC	Cooler #2 1.4 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



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Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-121223-01	A3L1208-01	WG	12/12/23 10:10	12/13/23 07:55
GS-121223-02	A3L1208-02	WG	12/12/23 10:20	12/13/23 07:55
GS-121223-03	A3L1208-03	WG	12/12/23 11:45	12/13/23 07:55
GS-121223-04	A3L1208-04	WG	12/12/23 11:50	12/13/23 07:55
GS-121223-05	A3L1208-05	WG	12/12/23 12:15	12/13/23 07:55
GS-121223-06	A3L1208-06	WG	12/12/23 14:45	12/13/23 07:55
GS-121223-07	A3L1208-07	WG	12/12/23 15:10	12/13/23 07:55
TB-121223	A3L1208-08	W	12/12/23 15:30	12/13/23 07:55

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-01 (A3L1208-01)		Matrix: WG			Batch: 23L0944			
Diesel	17600	100	200	ug/L	1	12/26/23 19:22	NWTPH-Dx	F-13, F-20
Oil	ND	200	400	ug/L	1	12/26/23 19:22	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 79 %		Limits: 50-150 %	1	12/26/23 19:22	NWTPH-Dx	
GS-121223-02 (A3L1208-02)		Matrix: WG			Batch: 23L0944			
Diesel	5340	98.0	196	ug/L	1	12/26/23 19:42	NWTPH-Dx	F-13
Oil	ND	196	392	ug/L	1	12/26/23 19:42	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	12/26/23 19:42	NWTPH-Dx	
GS-121223-03 (A3L1208-03)		Matrix: WG			Batch: 23L0944			
Diesel	2120	96.2	192	ug/L	1	12/26/23 20:24	NWTPH-Dx	F-13
Oil	ND	192	385	ug/L	1	12/26/23 20:24	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %	1	12/26/23 20:24	NWTPH-Dx	
GS-121223-04 (A3L1208-04)		Matrix: WG			Batch: 23L0944			
Diesel	1760	96.2	192	ug/L	1	12/26/23 20:44	NWTPH-Dx	F-13
Oil	ND	192	385	ug/L	1	12/26/23 20:44	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %	1	12/26/23 20:44	NWTPH-Dx	
GS-121223-05 (A3L1208-05)		Matrix: WG			Batch: 23L0944			
Diesel	6730	98.0	196	ug/L	1	12/26/23 21:05	NWTPH-Dx	F-13, F-20
Oil	ND	196	392	ug/L	1	12/26/23 21:05	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	12/26/23 21:05	NWTPH-Dx	
GS-121223-06 (A3L1208-06)		Matrix: WG			Batch: 23L0944			
Diesel	ND	96.2	192	ug/L	1	12/26/23 21:26	NWTPH-Dx	
Oil	912	192	385	ug/L	1	12/26/23 21:26	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 85 %		Limits: 50-150 %	1	12/26/23 21:26	NWTPH-Dx	
GS-121223-07 (A3L1208-07)		Matrix: WG			Batch: 23L0944			
Diesel	2350	98.0	196	ug/L	1	12/26/23 22:07	NWTPH-Dx	F-13
Oil	ND	196	392	ug/L	1	12/26/23 22:07	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 75 %		Limits: 50-150 %	1	12/26/23 22:07	NWTPH-Dx	

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-01 (A3L1208-01)		Matrix: WG			Batch: 23L0633			
Gasoline Range Organics	127000	2500	5000	ug/L	50	12/17/23 07:54	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 88 %	Limits: 50-150 %	1	12/17/23 07:54	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		88 %	50-150 %	1	12/17/23 07:54	NWTPH-Gx (MS)		
GS-121223-02 (A3L1208-02RE1)		Matrix: WG			Batch: 23L0661			
Gasoline Range Organics	3920	100	200	ug/L	2	12/18/23 20:45	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 90 %	Limits: 50-150 %	1	12/18/23 20:45	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		88 %	50-150 %	1	12/18/23 20:45	NWTPH-Gx (MS)		
GS-121223-03 (A3L1208-03RE1)		Matrix: WG			Batch: 23L0661			
Gasoline Range Organics	5650	250	500	ug/L	5	12/18/23 21:08	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 83 %	Limits: 50-150 %	1	12/18/23 21:08	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		89 %	50-150 %	1	12/18/23 21:08	NWTPH-Gx (MS)		
GS-121223-04 (A3L1208-04RE1)		Matrix: WG			Batch: 23L0661			
Gasoline Range Organics	5940	250	500	ug/L	5	12/18/23 21:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 83 %	Limits: 50-150 %	1	12/18/23 21:31	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		89 %	50-150 %	1	12/18/23 21:31	NWTPH-Gx (MS)		
GS-121223-05 (A3L1208-05)		Matrix: WG			Batch: 23L0633			
Gasoline Range Organics	27300	2500	5000	ug/L	50	12/17/23 07:09	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 82 %	Limits: 50-150 %	1	12/17/23 07:09	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		87 %	50-150 %	1	12/17/23 07:09	NWTPH-Gx (MS)		
GS-121223-06 (A3L1208-06)		Matrix: WG			Batch: 23L0633			
Gasoline Range Organics	ND	50.0	100	ug/L	1	12/17/23 02:40	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 92 %	Limits: 50-150 %	1	12/17/23 02:40	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		101 %	50-150 %	1	12/17/23 02:40	NWTPH-Gx (MS)		
GS-121223-07 (A3L1208-07RE1)		Matrix: WG			Batch: 23L0661			
Gasoline Range Organics	2930	50.0	100	ug/L	1	12/18/23 16:14	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 109 %	Limits: 50-150 %	1	12/18/23 16:14	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		97 %	50-150 %	1	12/18/23 16:14	NWTPH-Gx (MS)		

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Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-01 (A3L1208-01)		Matrix: WG		Batch: 23L0633		V-25		
Acetone	ND	500	1000	ug/L	50	12/17/23 07:54	EPA 8260D	
Acrylonitrile	ND	50.0	100	ug/L	50	12/17/23 07:54	EPA 8260D	
Bromobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Bromochloromethane	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Bromoform	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Bromomethane	ND	250	250	ug/L	50	12/17/23 07:54	EPA 8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	12/17/23 07:54	EPA 8260D	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Carbon disulfide	ND	250	500	ug/L	50	12/17/23 07:54	EPA 8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Chloroethane	ND	250	250	ug/L	50	12/17/23 07:54	EPA 8260D	
Chloroform	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Chloromethane	ND	125	250	ug/L	50	12/17/23 07:54	EPA 8260D	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Dibromomethane	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,1-Dichloroethane	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,1-Dichloroethene	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
cis-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
trans-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	

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Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-01 (A3L1208-01)		Matrix: WG		Batch: 23L0633		V-25		
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Ethylbenzene	723	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Hexachlorobutadiene	ND	125	250	ug/L	50	12/17/23 07:54	EPA 8260D	
2-Hexanone	ND	500	500	ug/L	50	12/17/23 07:54	EPA 8260D	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Methylene chloride	ND	250	500	ug/L	50	12/17/23 07:54	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	12/17/23 07:54	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Naphthalene	8720	250	250	ug/L	50	12/17/23 07:54	EPA 8260D	Q-54b
n-Propylbenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Styrene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Toluene	6110	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	12/17/23 07:54	EPA 8260D	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Trichloroethene (TCE)	ND	10.0	20.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
1,2,4-Trimethylbenzene	42.0	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
Vinyl chloride	7.50	5.00	10.0	ug/L	50	12/17/23 07:54	EPA 8260D	J
m,p-Xylene	592	25.0	50.0	ug/L	50	12/17/23 07:54	EPA 8260D	
o-Xylene	236	12.5	25.0	ug/L	50	12/17/23 07:54	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>12/17/23 07:54</i>	<i>EPA 8260D</i>	

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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-121223-01 (A3L1208-01)		Matrix: WG		Batch: 23L0633		V-25		
Surrogate: Toluene-d8 (Surr)		Recovery: 98 %	Limits: 80-120 %	1	12/17/23 07:54	EPA 8260D		
4-Bromofluorobenzene (Surr)		100 %	80-120 %	1	12/17/23 07:54	EPA 8260D		
GS-121223-01 (A3L1208-01RE1)		Matrix: WG		Batch: 23L0661				
Benzene	40300	100	200	ug/L	1000	12/18/23 20:23	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 94 %	Limits: 80-120 %	1	12/18/23 20:23	EPA 8260D		
Toluene-d8 (Surr)		100 %	80-120 %	1	12/18/23 20:23	EPA 8260D		
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1	12/18/23 20:23	EPA 8260D		
GS-121223-02 (A3L1208-02RE1)		Matrix: WG		Batch: 23L0661				
Acetone	ND	20.0	40.0	ug/L	2	12/18/23 20:45	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Benzene	313	0.200	0.400	ug/L	2	12/18/23 20:45	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	12/18/23 20:45	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	12/18/23 20:45	EPA 8260D	
n-Butylbenzene	1.08	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	J
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	12/18/23 20:45	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	12/18/23 20:45	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	12/18/23 20:45	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	12/18/23 20:45	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	12/18/23 20:45	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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-02 (A3L1208-02RE1)				Matrix: WG		Batch: 23L0661		
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	12/18/23 20:45	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	12/18/23 20:45	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Ethylbenzene	1.94	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	12/18/23 20:45	EPA 8260D	
2-Hexanone	ND	20.0	20.0	ug/L	2	12/18/23 20:45	EPA 8260D	
Isopropylbenzene	6.76	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	12/18/23 20:45	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	20.0	20.0	ug/L	2	12/18/23 20:45	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Naphthalene	88.0	10.0	10.0	ug/L	2	12/18/23 20:45	EPA 8260D	Q-54c
n-Propylbenzene	3.40	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	12/18/23 20:45	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Toluene	1.50	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,2,4-Trichlorobenzene	ND	4.00	4.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	12/18/23 20:45	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
1,2,4-Trimethylbenzene	7.68	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-02 (A3L1208-02RE1)		Matrix: WG			Batch: 23L0661			
1,3,5-Trimethylbenzene	3.86	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
m,p-Xylene	2.72	1.00	2.00	ug/L	2	12/18/23 20:45	EPA 8260D	
o-Xylene	6.50	0.500	1.00	ug/L	2	12/18/23 20:45	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>12/18/23 20:45</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>12/18/23 20:45</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>88 %</i>		<i>80-120 %</i>	<i>1</i>	<i>12/18/23 20:45</i>	<i>EPA 8260D</i>	
GS-121223-03 (A3L1208-03RE1)		Matrix: WG			Batch: 23L0661			
Acetone	ND	50.0	100	ug/L	5	12/18/23 21:08	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	12/18/23 21:08	EPA 8260D	
Benzene	743	0.500	1.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	12/18/23 21:08	EPA 8260D	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	12/18/23 21:08	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Carbon disulfide	ND	25.0	50.0	ug/L	5	12/18/23 21:08	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Chlorobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	5	12/18/23 21:08	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	12/18/23 21:08	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:08	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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-03 (A3L1208-03RE1)		Matrix: WG			Batch: 23L0661			
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Ethylbenzene	12.0	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	12/18/23 21:08	EPA 8260D	
2-Hexanone	ND	50.0	50.0	ug/L	5	12/18/23 21:08	EPA 8260D	
Isopropylbenzene	4.45	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	J
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	12/18/23 21:08	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	50.0	50.0	ug/L	5	12/18/23 21:08	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
n-Propylbenzene	2.95	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Styrene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Tetrachloroethene (PCE)	ND	2.00	2.00	ug/L	5	12/18/23 21:08	EPA 8260D	
Toluene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2,4-Trichlorobenzene	ND	10.0	10.0	ug/L	5	12/18/23 21:08	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,2,4-Trimethylbenzene	15.6	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	
1,3,5-Trimethylbenzene	ND	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-03 (A3L1208-03RE1)		Matrix: WG			Batch: 23L0661			
m,p-Xylene	3.65	2.50	5.00	ug/L	5	12/18/23 21:08	EPA 8260D	J
o-Xylene	4.45	1.25	2.50	ug/L	5	12/18/23 21:08	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %	1	12/18/23 21:08	EPA 8260D	
Toluene-d8 (Surr)		98 %		80-120 %	1	12/18/23 21:08	EPA 8260D	
4-Bromofluorobenzene (Surr)		94 %		80-120 %	1	12/18/23 21:08	EPA 8260D	
GS-121223-03 (A3L1208-03RE2)		Matrix: WG			Batch: 23L0777			
Naphthalene	749	125	250	ug/L	50	12/20/23 17:54	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %	1	12/20/23 17:54	EPA 8260D	
Toluene-d8 (Surr)		96 %		80-120 %	1	12/20/23 17:54	EPA 8260D	
4-Bromofluorobenzene (Surr)		104 %		80-120 %	1	12/20/23 17:54	EPA 8260D	
GS-121223-04 (A3L1208-04RE1)		Matrix: WG			Batch: 23L0661			
Acetone	ND	50.0	100	ug/L	5	12/18/23 21:31	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	12/18/23 21:31	EPA 8260D	
Benzene	811	0.500	1.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	12/18/23 21:31	EPA 8260D	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	12/18/23 21:31	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Carbon disulfide	ND	25.0	50.0	ug/L	5	12/18/23 21:31	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Chlorobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	5	12/18/23 21:31	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	12/18/23 21:31	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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6720 SW Macadam Ave. Suite 125
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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-04 (A3L1208-04RE1)		Matrix: WG		Batch: 23L0661				
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	12/18/23 21:31	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Ethylbenzene	12.8	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	12/18/23 21:31	EPA 8260D	
2-Hexanone	ND	50.0	50.0	ug/L	5	12/18/23 21:31	EPA 8260D	
Isopropylbenzene	4.60	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	J
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	12/18/23 21:31	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	50.0	50.0	ug/L	5	12/18/23 21:31	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
n-Propylbenzene	3.00	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
Styrene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	12/18/23 21:31	EPA 8260D	
Toluene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	12/18/23 21:31	EPA 8260D	
1,2,4-Trichlorobenzene	ND	10.0	10.0	ug/L	5	12/18/23 21:31	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-04 (A3L1208-04RE1)		Matrix: WG			Batch: 23L0661			
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	12/18/23 21:31	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,2,4-Trimethylbenzene	16.3	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
1,3,5-Trimethylbenzene	ND	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	
m,p-Xylene	3.80	2.50	5.00	ug/L	5	12/18/23 21:31	EPA 8260D	J
o-Xylene	4.70	1.25	2.50	ug/L	5	12/18/23 21:31	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %	1	12/18/23 21:31	EPA 8260D	
Toluene-d8 (Surr)		98 %		80-120 %	1	12/18/23 21:31	EPA 8260D	
4-Bromofluorobenzene (Surr)		93 %		80-120 %	1	12/18/23 21:31	EPA 8260D	
GS-121223-04 (A3L1208-04RE2)		Matrix: WG			Batch: 23L0777			
Naphthalene	852	125	250	ug/L	50	12/20/23 18:22	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %	1	12/20/23 18:22	EPA 8260D	
Toluene-d8 (Surr)		97 %		80-120 %	1	12/20/23 18:22	EPA 8260D	
4-Bromofluorobenzene (Surr)		102 %		80-120 %	1	12/20/23 18:22	EPA 8260D	
GS-121223-05 (A3L1208-05)		Matrix: WG			Batch: 23L0633			V-25
Acetone	ND	500	1000	ug/L	50	12/17/23 07:09	EPA 8260D	
Acrylonitrile	ND	50.0	100	ug/L	50	12/17/23 07:09	EPA 8260D	
Benzene	5100	5.00	10.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Bromobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Bromochloromethane	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Bromoform	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Bromomethane	ND	250	250	ug/L	50	12/17/23 07:09	EPA 8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	12/17/23 07:09	EPA 8260D	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Carbon disulfide	ND	250	500	ug/L	50	12/17/23 07:09	EPA 8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Chloroethane	ND	250	250	ug/L	50	12/17/23 07:09	EPA 8260D	
Chloroform	ND	25.0	50.0	ug/L	50	12/17/23 07:09	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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-05 (A3L1208-05)		Matrix: WG		Batch: 23L0633		V-25		
Chloromethane	ND	125	250	ug/L	50	12/17/23 07:09	EPA 8260D	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/L	50	12/17/23 07:09	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Dibromomethane	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,1-Dichloroethane	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,1-Dichloroethene	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
cis-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
trans-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Ethylbenzene	625	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Hexachlorobutadiene	ND	125	250	ug/L	50	12/17/23 07:09	EPA 8260D	
2-Hexanone	ND	500	500	ug/L	50	12/17/23 07:09	EPA 8260D	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Methylene chloride	ND	250	500	ug/L	50	12/17/23 07:09	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	12/17/23 07:09	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Naphthalene	674	250	250	ug/L	50	12/17/23 07:09	EPA 8260D	Q-54b
n-Propylbenzene	19.0	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	J
Styrene	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	

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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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-05 (A3L1208-05)		Matrix: WG			Batch: 23L0633		V-25	
1,1,1,2-Tetrachloroethane	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Toluene	34.5	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	12/17/23 07:09	EPA 8260D	
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	12/17/23 07:09	EPA 8260D	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Trichloroethene (TCE)	ND	10.0	20.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	12/17/23 07:09	EPA 8260D	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,2,4-Trimethylbenzene	73.0	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
1,3,5-Trimethylbenzene	31.0	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	J
Vinyl chloride	ND	5.00	10.0	ug/L	50	12/17/23 07:09	EPA 8260D	
m,p-Xylene	192	25.0	50.0	ug/L	50	12/17/23 07:09	EPA 8260D	
o-Xylene	124	12.5	25.0	ug/L	50	12/17/23 07:09	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %	1	12/17/23 07:09	EPA 8260D	
Toluene-d8 (Surr)		100 %		80-120 %	1	12/17/23 07:09	EPA 8260D	
4-Bromofluorobenzene (Surr)		96 %		80-120 %	1	12/17/23 07:09	EPA 8260D	
GS-121223-06 (A3L1208-06)		Matrix: WG			Batch: 23L0633			
Acetone	ND	10.0	20.0	ug/L	1	12/17/23 02:40	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/17/23 02:40	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/17/23 02:40	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/17/23 02:40	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-06 (A3L1208-06)		Matrix: WG			Batch: 23L0633			
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/17/23 02:40	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/17/23 02:40	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/17/23 02:40	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/17/23 02:40	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/17/23 02:40	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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-06 (A3L1208-06)		Matrix: WG			Batch: 23L0633			
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/17/23 02:40	EPA 8260D	Q-54b
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Naphthalene	ND	5.00	5.00	ug/L	1	12/17/23 02:40	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/17/23 02:40	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/17/23 02:40	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/17/23 02:40	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/17/23 02:40	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %	1	12/17/23 02:40	EPA 8260D	
Toluene-d8 (Surr)		98 %		80-120 %	1	12/17/23 02:40	EPA 8260D	
4-Bromofluorobenzene (Surr)		97 %		80-120 %	1	12/17/23 02:40	EPA 8260D	

GS-121223-07 (A3L1208-07RE1)

Matrix: WG

Batch: 23L0661

Acetone	ND	10.0	20.0	ug/L	1	12/18/23 16:14	EPA 8260D
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/18/23 16:14	EPA 8260D
Benzene	8.37	0.100	0.200	ug/L	1	12/18/23 16:14	EPA 8260D
Bromobenzene	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D
Bromoform	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-07 (A3L1208-07RE1)				Matrix: WG		Batch: 23L0661		
Bromomethane	ND	5.00	5.00	ug/L	1	12/18/23 16:14	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/18/23 16:14	EPA 8260D	
n-Butylbenzene	0.600	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	J
sec-Butylbenzene	0.810	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	J
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/18/23 16:14	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/18/23 16:14	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/18/23 16:14	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
Ethylbenzene	16.6	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-07 (A3L1208-07RE1)		Matrix: WG			Batch: 23L0661			
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/18/23 16:14	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/18/23 16:14	EPA 8260D	
Isopropylbenzene	9.88	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/18/23 16:14	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	10.0	ug/L	1	12/18/23 16:14	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
n-Propylbenzene	2.77	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/18/23 16:14	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,2,4-Trimethylbenzene	5.75	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
1,3,5-Trimethylbenzene	0.590	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	J
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/18/23 16:14	EPA 8260D	
m,p-Xylene	2.13	0.500	1.00	ug/L	1	12/18/23 16:14	EPA 8260D	
o-Xylene	7.37	0.250	0.500	ug/L	1	12/18/23 16:14	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %	1	12/18/23 16:14	EPA 8260D	
Toluene-d8 (Surr)		96 %		80-120 %	1	12/18/23 16:14	EPA 8260D	
4-Bromofluorobenzene (Surr)		92 %		80-120 %	1	12/18/23 16:14	EPA 8260D	
GS-121223-07 (A3L1208-07RE2)		Matrix: WG			Batch: 23L0777			
Naphthalene	358	25.0	50.0	ug/L	10	12/20/23 18:49	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %	1	12/20/23 18:49	EPA 8260D	
Toluene-d8 (Surr)		98 %		80-120 %	1	12/20/23 18:49	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-07 (A3L1208-07RE2)				Matrix: WG		Batch: 23L0777		
Surrogate: 4-Bromofluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %	1	12/20/23 18:49		EPA 8260D
TB-121223 (A3L1208-08)				Matrix: W		Batch: 23L0633		
Acetone	ND	10.0	20.0	ug/L	1	12/17/23 00:03	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/17/23 00:03	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/17/23 00:03	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/17/23 00:03	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/17/23 00:03	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/17/23 00:03	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/17/23 00:03	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/17/23 00:03	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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-121223 (A3L1208-08)		Matrix: W			Batch: 23L0633			
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/17/23 00:03	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/17/23 00:03	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/17/23 00:03	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/17/23 00:03	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/17/23 00:03	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Naphthalene	ND	5.00	5.00	ug/L	1	12/17/23 00:03	EPA 8260D	Q-54b
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/17/23 00:03	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/17/23 00:03	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/17/23 00:03	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/17/23 00:03	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/17/23 00:03	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

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Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**

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

Project Manager: **John Renda**

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-121223 (A3L1208-08)		Matrix: W			Batch: 23L0633			
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/17/23 00:03	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/17/23 00:03	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %	1	12/17/23 00:03	EPA 8260D	
Toluene-d8 (Surr)		100 %		80-120 %	1	12/17/23 00:03	EPA 8260D	
4-Bromofluorobenzene (Surr)		98 %		80-120 %	1	12/17/23 00:03	EPA 8260D	

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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-121223-02 (A3L1208-02)		Matrix: WG			Batch: 23L0756			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	12/20/23 03:23	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	12/20/23 03:23	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	12/20/23 03:23	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	12/20/23 03:23	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	12/20/23 03:23	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 96 %	Limits: 80-120 %	1	12/20/23 03:23	EPA 8260D SIM		
Toluene-d8 (Surr)		97 %	80-120 %	1	12/20/23 03:23	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		96 %	80-120 %	1	12/20/23 03:23	EPA 8260D SIM		
GS-121223-03 (A3L1208-03)		Matrix: WG			Batch: 23L0756			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	12/20/23 02:29	EPA 8260D SIM	
cis-1,2-Dichloroethene	0.508	0.250	0.500	ug/L	25	12/20/23 02:29	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	12/20/23 02:29	EPA 8260D SIM	
Trichloroethene (TCE)	1.31	0.250	0.500	ug/L	25	12/20/23 02:29	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	12/20/23 02:29	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 95 %	Limits: 80-120 %	1	12/20/23 02:29	EPA 8260D SIM		
Toluene-d8 (Surr)		97 %	80-120 %	1	12/20/23 02:29	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		95 %	80-120 %	1	12/20/23 02:29	EPA 8260D SIM		
GS-121223-04 (A3L1208-04)		Matrix: WG			Batch: 23L0756			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	12/20/23 02:56	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	12/20/23 02:56	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	12/20/23 02:56	EPA 8260D SIM	
Trichloroethene (TCE)	0.341	0.250	0.500	ug/L	25	12/20/23 02:56	EPA 8260D SIM	J
Vinyl chloride	ND	0.250	0.500	ug/L	25	12/20/23 02:56	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 94 %	Limits: 80-120 %	1	12/20/23 02:56	EPA 8260D SIM		
Toluene-d8 (Surr)		97 %	80-120 %	1	12/20/23 02:56	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		96 %	80-120 %	1	12/20/23 02:56	EPA 8260D SIM		

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Darwin Thomas, Business Development Director

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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

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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-121223-01 (A3L1208-01)		Matrix: WG			Batch: 23L0581		DCNT	
Acenaphthene	137	1.98	3.97	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Acenaphthylene	ND	13.6	13.6	ug/L	100	12/15/23 15:04	EPA 8270E LVI	R-02
Anthracene	9.28	1.98	3.97	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Benz(a)anthracene	ND	0.992	1.98	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.992	1.98	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.992	1.98	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.992	1.98	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.98	3.97	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Chrysene	ND	0.992	1.98	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.992	1.98	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Fluoranthene	6.00	1.98	3.97	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Fluorene	34.0	1.98	3.97	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.992	1.98	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
1-Methylnaphthalene	255	3.97	7.94	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
2-Methylnaphthalene	388	3.97	7.94	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Phenanthrene	43.2	3.97	7.94	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Pyrene	6.35	1.98	3.97	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Dibenzofuran	10.1	1.98	3.97	ug/L	100	12/15/23 15:04	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	12/15/23 15:04	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		102 %		80-132 %	100	12/15/23 15:04	EPA 8270E LVI	S-05
GS-121223-01 (A3L1208-01RE1)		Matrix: WG			Batch: 23L0581			
Naphthalene	6600	39.7	79.4	ug/L	1000	12/15/23 18:49	EPA 8270E LVI	
GS-121223-02 (A3L1208-02)		Matrix: WG			Batch: 23L0581		DCNT	
Acenaphthylene	12.7	0.193	0.387	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Anthracene	6.27	0.193	0.387	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Benz(a)anthracene	0.145	0.0967	0.193	ug/L	10	12/15/23 14:32	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.0967	0.193	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.0967	0.193	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0967	0.193	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.193	0.387	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Chrysene	ND	0.0967	0.193	ug/L	10	12/15/23 14:32	EPA 8270E LVI	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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-121223-02 (A3L1208-02)		Matrix: WG			Batch: 23L0581		DCNT	
Dibenz(a,h)anthracene	ND	0.0967	0.193	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Fluoranthene	3.72	0.193	0.387	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Fluorene	42.2	0.193	0.387	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0967	0.193	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
1-Methylnaphthalene	127	0.387	0.774	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
2-Methylnaphthalene	18.2	0.387	0.774	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Naphthalene	57.0	0.387	0.774	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Phenanthrene	14.1	0.387	0.774	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Pyrene	3.32	0.193	0.387	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Dibenzofuran	8.40	0.193	0.387	ug/L	10	12/15/23 14:32	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 56 %		Limits: 78-134 %	10	12/15/23 14:32	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		109 %		80-132 %	10	12/15/23 14:32	EPA 8270E LVI	S-05
GS-121223-02 (A3L1208-02RE1)		Matrix: WG			Batch: 23L0581			
Acenaphthene	244	1.93	3.87	ug/L	100	12/15/23 18:17	EPA 8270E LVI	
GS-121223-03 (A3L1208-03)		Matrix: WG			Batch: 23L0581		DCNT	
Acenaphthene	36.9	1.85	3.70	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Acenaphthylene	ND	3.70	3.70	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Anthracene	ND	1.85	3.70	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Benz(a)anthracene	ND	0.926	1.85	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.926	1.85	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.926	1.85	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.926	1.85	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.85	3.70	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Chrysene	ND	0.926	1.85	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.926	1.85	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Fluoranthene	5.28	1.85	3.70	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Fluorene	8.15	1.85	3.70	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.926	1.85	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
1-Methylnaphthalene	80.5	3.70	7.41	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
2-Methylnaphthalene	41.0	3.70	7.41	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Naphthalene	587	3.70	7.41	ug/L	100	12/15/23 15:36	EPA 8270E LVI	

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Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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-121223-03 (A3L1208-03)		Matrix: WG		Batch: 23L0581		DCNT		
Phenanthrene	5.60	3.70	7.41	ug/L	100	12/15/23 15:36	EPA 8270E LVI	J
Pyrene	6.44	1.85	3.70	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Dibenzofuran	ND	1.85	3.70	ug/L	100	12/15/23 15:36	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	12/15/23 15:36	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		88 %		80-132 %	100	12/15/23 15:36	EPA 8270E LVI	S-05
GS-121223-04 (A3L1208-04)		Matrix: WG		Batch: 23L0581		DCNT		
Acenaphthene	42.4	1.74	3.49	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Acenaphthylene	ND	5.45	5.45	ug/L	100	12/15/23 16:09	EPA 8270E LVI	R-02
Anthracene	ND	1.74	3.49	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Benz(a)anthracene	ND	0.871	1.74	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.871	1.74	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.871	1.74	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.871	1.74	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.74	3.49	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Chrysene	ND	0.871	1.74	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.871	1.74	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Fluoranthene	5.58	1.74	3.49	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Fluorene	9.32	1.74	3.49	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.871	1.74	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
1-Methylnaphthalene	87.5	3.49	6.97	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
2-Methylnaphthalene	44.0	3.49	6.97	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Naphthalene	707	3.49	6.97	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Phenanthrene	6.45	3.49	6.97	ug/L	100	12/15/23 16:09	EPA 8270E LVI	J
Pyrene	6.67	1.74	3.49	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Dibenzofuran	ND	1.74	3.49	ug/L	100	12/15/23 16:09	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 60 %		Limits: 78-134 %	100	12/15/23 16:09	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		88 %		80-132 %	100	12/15/23 16:09	EPA 8270E LVI	S-05
GS-121223-05 (A3L1208-05)		Matrix: WG		Batch: 23L0581		DCNT		
Acenaphthene	251	1.93	3.86	ug/L	100	12/15/23 16:41	EPA 8270E LVI	M-04
Acenaphthylene	ND	19.3	19.3	ug/L	100	12/15/23 16:41	EPA 8270E LVI	R-02
Anthracene	7.82	1.93	3.86	ug/L	100	12/15/23 16:41	EPA 8270E LVI	

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Darwin Thomas, Business Development Director

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Report ID:

A3L1208 - 03 06 24 0845

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-121223-05 (A3L1208-05)		Matrix: WG			Batch: 23L0581		DCNT	
Benz(a)anthracene	ND	0.965	1.93	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.965	1.93	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.965	1.93	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.965	1.93	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.93	3.86	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Chrysene	ND	0.965	1.93	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.965	1.93	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Fluoranthene	14.5	1.93	3.86	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Fluorene	66.7	1.93	3.86	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.965	1.93	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
1-Methylnaphthalene	764	3.86	7.72	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
2-Methylnaphthalene	1000	3.86	7.72	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Naphthalene	758	3.86	7.72	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Phenanthrene	86.2	3.86	7.72	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Pyrene	15.3	1.93	3.86	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Dibenzofuran	18.5	1.93	3.86	ug/L	100	12/15/23 16:41	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	12/15/23 16:41	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		92 %		80-132 %	100	12/15/23 16:41	EPA 8270E LVI	S-05
GS-121223-06 (A3L1208-06RE1)		Matrix: WG			Batch: 23L0581			
Acenaphthene	0.0741	0.0162	0.0324	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Acenaphthylene	0.937	0.0162	0.0324	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Anthracene	1.59	0.0162	0.0324	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Benz(a)anthracene	0.0458	0.00810	0.0162	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Benzo(a)pyrene	0.0271	0.00810	0.0162	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	0.0275	0.00810	0.0162	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Benzo(k)fluoranthene	0.0340	0.00810	0.0162	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Benzo(g,h,i)perylene	0.0685	0.0162	0.0324	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Chrysene	0.0122	0.00810	0.0162	ug/L	1	12/15/23 19:21	EPA 8270E LVI	J
Dibenz(a,h)anthracene	ND	0.00810	0.0162	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Fluoranthene	0.0348	0.0162	0.0324	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Fluorene	0.0559	0.0162	0.0324	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	0.0450	0.00810	0.0162	ug/L	1	12/15/23 19:21	EPA 8270E LVI	

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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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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-121223-06 (A3L1208-06RE1)		Matrix: WG			Batch: 23L0581			
1-Methylnaphthalene	0.0608	0.0324	0.0648	ug/L	1	12/15/23 19:21	EPA 8270E LVI	J
2-Methylnaphthalene	0.0425	0.0324	0.0648	ug/L	1	12/15/23 19:21	EPA 8270E LVI	J
Naphthalene	0.120	0.0324	0.0648	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Phenanthrene	0.0648	0.0324	0.0648	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Pyrene	0.0316	0.0162	0.0324	ug/L	1	12/15/23 19:21	EPA 8270E LVI	J
Dibenzofuran	ND	0.0162	0.0324	ug/L	1	12/15/23 19:21	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 114 %		Limits: 78-134 %	1	12/15/23 19:21	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		119 %		80-132 %	1	12/15/23 19:21	EPA 8270E LVI	
GS-121223-07 (A3L1208-07)		Matrix: WG			Batch: 23L0581			DCNT
Acenaphthene	103	2.01	4.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Acenaphthylene	ND	10.3	10.3	ug/L	100	12/15/23 17:45	EPA 8270E LVI	R-02
Anthracene	4.52	2.01	4.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Benz(a)anthracene	ND	1.00	2.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Benzo(a)pyrene	ND	1.00	2.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	1.00	2.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	1.00	2.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	2.01	4.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Chrysene	ND	1.00	2.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	1.00	2.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Fluoranthene	2.11	2.01	4.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	J
Fluorene	29.9	2.01	4.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	1.00	2.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
1-Methylnaphthalene	152	4.01	8.03	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
2-Methylnaphthalene	7.78	4.01	8.03	ug/L	100	12/15/23 17:45	EPA 8270E LVI	J
Naphthalene	149	4.01	8.03	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Phenanthrene	20.4	4.01	8.03	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Pyrene	ND	2.01	4.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Dibenzofuran	5.12	2.01	4.01	ug/L	100	12/15/23 17:45	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 124 %		Limits: 78-134 %	100	12/15/23 17:45	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		80 %		80-132 %	100	12/15/23 17:45	EPA 8270E LVI	S-05

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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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-01 (A3L1208-01)				Matrix: WG				
Batch: 23L1050								
Aluminum	ND	25.0	50.0	ug/L	1	12/29/23 10:21	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	12/29/23 10:21	EPA 6020B	
Arsenic	6.76	0.500	1.00	ug/L	1	12/29/23 10:21	EPA 6020B	
Barium	92.5	1.00	2.00	ug/L	1	12/29/23 10:21	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	12/29/23 10:21	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	12/29/23 10:21	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	12/29/23 10:21	EPA 6020B	
Iron	32400	25.0	50.0	ug/L	1	12/29/23 10:21	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	12/29/23 10:21	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	12/29/23 10:21	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	12/29/23 10:21	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	12/29/23 10:21	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	12/29/23 10:21	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	12/29/23 10:21	EPA 6020B	
Vanadium	1.19	1.00	2.00	ug/L	1	12/29/23 10:21	EPA 6020B	J
Zinc	ND	2.00	4.00	ug/L	1	12/29/23 10:21	EPA 6020B	
GS-121223-01 (A3L1208-01RE1)				Matrix: WG				
Batch: 23L1050								
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 21:32	EPA 6020B	
Manganese	3250	5.00	10.0	ug/L	10	12/29/23 11:31	EPA 6020B	
GS-121223-02 (A3L1208-02)				Matrix: WG				
Batch: 23L1050								
Aluminum	ND	25.0	50.0	ug/L	1	12/29/23 10:27	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	12/29/23 10:27	EPA 6020B	
Arsenic	1.64	0.500	1.00	ug/L	1	12/29/23 10:27	EPA 6020B	
Barium	70.2	1.00	2.00	ug/L	1	12/29/23 10:27	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	12/29/23 10:27	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	12/29/23 10:27	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	12/29/23 10:27	EPA 6020B	
Iron	42400	25.0	50.0	ug/L	1	12/29/23 10:27	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	12/29/23 10:27	EPA 6020B	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-02 (A3L1208-02)		Matrix: WG						
Mercury	ND	0.0400	0.0800	ug/L	1	12/29/23 10:27	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	12/29/23 10:27	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	12/29/23 10:27	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	12/29/23 10:27	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	12/29/23 10:27	EPA 6020B	
Vanadium	1.06	1.00	2.00	ug/L	1	12/29/23 10:27	EPA 6020B	J
Zinc	2.61	2.00	4.00	ug/L	1	12/29/23 10:27	EPA 6020B	J
GS-121223-02 (A3L1208-02RE1)		Matrix: WG						
Batch: 23L1050								
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 21:38	EPA 6020B	
Manganese	4620	5.00	10.0	ug/L	10	12/29/23 11:38	EPA 6020B	
GS-121223-03 (A3L1208-03)		Matrix: WG						
Batch: 23L1050								
Aluminum	ND	25.0	50.0	ug/L	1	12/29/23 10:32	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	12/29/23 10:32	EPA 6020B	
Arsenic	0.748	0.500	1.00	ug/L	1	12/29/23 10:32	EPA 6020B	J
Barium	32.6	1.00	2.00	ug/L	1	12/29/23 10:32	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	12/29/23 10:32	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	12/29/23 10:32	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	12/29/23 10:32	EPA 6020B	
Iron	26500	25.0	50.0	ug/L	1	12/29/23 10:32	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	12/29/23 10:32	EPA 6020B	
Manganese	1490	0.500	1.00	ug/L	1	12/29/23 10:32	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	12/29/23 10:32	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	12/29/23 10:32	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	12/29/23 10:32	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	12/29/23 10:32	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	12/29/23 10:32	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	12/29/23 10:32	EPA 6020B	
Zinc	3.50	2.00	4.00	ug/L	1	12/29/23 10:32	EPA 6020B	J
GS-121223-03 (A3L1208-03RE1)		Matrix: WG						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-03 (A3L1208-03RE1) Matrix: WG								
Batch: 23L1050								
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 21:43	EPA 6020B	
GS-121223-04 (A3L1208-04) Matrix: WG								
Batch: 23L1050								
Aluminum	ND	25.0	50.0	ug/L	1	12/29/23 10:37	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	12/29/23 10:37	EPA 6020B	
Arsenic	0.704	0.500	1.00	ug/L	1	12/29/23 10:37	EPA 6020B	J
Barium	33.8	1.00	2.00	ug/L	1	12/29/23 10:37	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	12/29/23 10:37	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	12/29/23 10:37	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	12/29/23 10:37	EPA 6020B	
Iron	26800	25.0	50.0	ug/L	1	12/29/23 10:37	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	12/29/23 10:37	EPA 6020B	
Manganese	1520	0.500	1.00	ug/L	1	12/29/23 10:37	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	12/29/23 10:37	EPA 6020B	
Nickel	1.17	1.00	2.00	ug/L	1	12/29/23 10:37	EPA 6020B	J
Selenium	ND	0.500	1.00	ug/L	1	12/29/23 10:37	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	12/29/23 10:37	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	12/29/23 10:37	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	12/29/23 10:37	EPA 6020B	
Zinc	3.41	2.00	4.00	ug/L	1	12/29/23 10:37	EPA 6020B	J
GS-121223-04 (A3L1208-04RE1) Matrix: WG								
Batch: 23L1050								
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 21:48	EPA 6020B	
GS-121223-05 (A3L1208-05) Matrix: WG								
Batch: 23L1050								
Aluminum	ND	25.0	50.0	ug/L	1	12/29/23 10:43	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	12/29/23 10:43	EPA 6020B	
Arsenic	0.633	0.500	1.00	ug/L	1	12/29/23 10:43	EPA 6020B	J
Barium	29.0	1.00	2.00	ug/L	1	12/29/23 10:43	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	12/29/23 10:43	EPA 6020B	

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-05 (A3L1208-05)		Matrix: WG						
Chromium	ND	1.00	2.00	ug/L	1	12/29/23 10:43	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	12/29/23 10:43	EPA 6020B	
Iron	30800	25.0	50.0	ug/L	1	12/29/23 10:43	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	12/29/23 10:43	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	12/29/23 10:43	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	12/29/23 10:43	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	12/29/23 10:43	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	12/29/23 10:43	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	12/29/23 10:43	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	12/29/23 10:43	EPA 6020B	
Zinc	ND	2.00	4.00	ug/L	1	12/29/23 10:43	EPA 6020B	
GS-121223-05 (A3L1208-05RE1)		Matrix: WG						
Batch: 23L1050								
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 21:54	EPA 6020B	
Manganese	3770	5.00	10.0	ug/L	10	12/29/23 11:54	EPA 6020B	
GS-121223-06 (A3L1208-06)		Matrix: WG						
Batch: 23L1050								
Aluminum	25.6	25.0	50.0	ug/L	1	12/29/23 10:48	EPA 6020B	J
Antimony	ND	0.500	1.00	ug/L	1	12/29/23 10:48	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	12/29/23 10:48	EPA 6020B	
Barium	50.1	1.00	2.00	ug/L	1	12/29/23 10:48	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	12/29/23 10:48	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	12/29/23 10:48	EPA 6020B	
Iron	628	25.0	50.0	ug/L	1	12/29/23 10:48	EPA 6020B	
Lead	0.130	0.110	0.200	ug/L	1	12/29/23 10:48	EPA 6020B	J
Manganese	720	0.500	1.00	ug/L	1	12/29/23 10:48	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	12/29/23 10:48	EPA 6020B	
Nickel	388	1.00	2.00	ug/L	1	12/29/23 10:48	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	12/29/23 10:48	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	12/29/23 10:48	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	12/29/23 10:48	EPA 6020B	

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ANALYTICAL REPORT

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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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-06 (A3L1208-06RE1)		Matrix: WG						
Batch: 23L1050								
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 21:59	EPA 6020B	
Copper	2.11	1.00	2.00	ug/L	1	01/03/24 20:45	EPA 6020B	
Vanadium	1060	10.0	20.0	ug/L	10	12/29/23 12:10	EPA 6020B	
Zinc	9.25	2.00	4.00	ug/L	1	01/03/24 20:45	EPA 6020B	
GS-121223-07 (A3L1208-07)		Matrix: WG						
Batch: 23L1050								
Aluminum	ND	25.0	50.0	ug/L	1	12/29/23 11:04	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	12/29/23 11:04	EPA 6020B	
Arsenic	5.06	0.500	1.00	ug/L	1	12/29/23 11:04	EPA 6020B	
Barium	238	1.00	2.00	ug/L	1	12/29/23 11:04	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	12/29/23 11:04	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	12/29/23 11:04	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	12/29/23 11:04	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	12/29/23 11:04	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	12/29/23 11:04	EPA 6020B	
Nickel	2.01	1.00	2.00	ug/L	1	12/29/23 11:04	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	12/29/23 11:04	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	12/29/23 11:04	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	12/29/23 11:04	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	12/29/23 11:04	EPA 6020B	
Zinc	2.23	2.00	4.00	ug/L	1	12/29/23 11:04	EPA 6020B	J
GS-121223-07 (A3L1208-07RE1)		Matrix: WG						
Batch: 23L1050								
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 22:04	EPA 6020B	
Iron	143000	250	500	ug/L	10	12/29/23 12:16	EPA 6020B	
Manganese	7830	5.00	10.0	ug/L	10	12/29/23 12:16	EPA 6020B	

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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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845****ANALYTICAL SAMPLE RESULTS****Total Cyanide by Flow Analysis (Aqueous)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-01 (A3L1208-01RE1)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.269	0.00500	0.00500	mg/L	1	12/22/23 13:02	EPA 335.4	
GS-121223-02 (A3L1208-02RE1)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.617	0.0100	0.0100	mg/L	2	12/22/23 13:04	EPA 335.4	
GS-121223-03 (A3L1208-03RE1)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.0469	0.00500	0.00500	mg/L	1	12/22/23 13:08	EPA 335.4	
GS-121223-04 (A3L1208-04RE1)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.252	0.00500	0.00500	mg/L	1	12/22/23 13:20	EPA 335.4	
GS-121223-05 (A3L1208-05)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.0547	0.00500	0.00500	mg/L	1	12/22/23 13:22	EPA 335.4	
GS-121223-06 (A3L1208-06)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.389	0.00500	0.00500	mg/L	1	12/22/23 13:24	EPA 335.4	
GS-121223-07 (A3L1208-07)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.0525	0.00500	0.00500	mg/L	1	12/22/23 13:28	EPA 335.4	

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ANALYTICAL REPORT

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

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A3L1208 - 03 06 24 0845

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-121223-01 (A3L1208-01)				Matrix: WG		Batch: 23L0536		
Available Cyanide	ND	0.00200	0.00200	mg/L	1	12/14/23 13:41	D6888-09	
GS-121223-02 (A3L1208-02)				Matrix: WG		Batch: 23L0536		
Available Cyanide	ND	0.00200	0.00200	mg/L	1	12/14/23 13:43	D6888-09	
GS-121223-03 (A3L1208-03)				Matrix: WG		Batch: 23L0536		
Available Cyanide	ND	0.00200	0.00200	mg/L	1	12/14/23 13:44	D6888-09	
GS-121223-04 (A3L1208-04)				Matrix: WG		Batch: 23L0536		
Available Cyanide	ND	0.00200	0.00200	mg/L	1	12/14/23 13:47	D6888-09	
GS-121223-05 (A3L1208-05)				Matrix: WG		Batch: 23L0536		
Available Cyanide	ND	0.00200	0.00200	mg/L	1	12/14/23 13:49	D6888-09	
GS-121223-06 (A3L1208-06)				Matrix: WG		Batch: 23L0536		
Available Cyanide	ND	0.00200	0.00200	mg/L	1	12/14/23 13:58	D6888-09	
GS-121223-07 (A3L1208-07)				Matrix: WG		Batch: 23L0536		
Available Cyanide	ND	0.00200	0.00200	mg/L	1	12/14/23 13:59	D6888-09	

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Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845****ANALYTICAL SAMPLE RESULTS****Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121223-01 (A3L1208-01)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:35	D4282-02	
GS-121223-02 (A3L1208-02)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:36	D4282-02	
GS-121223-03 (A3L1208-03)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:36	D4282-02	
GS-121223-04 (A3L1208-04)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:41	D4282-02	
GS-121223-05 (A3L1208-05)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:41	D4282-02	
GS-121223-06 (A3L1208-06)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:42	D4282-02	
GS-121223-07 (A3L1208-07)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:42	D4282-02	

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Project Manager: John Renda

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23L0944 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (23L0944-BLK1)			Prepared: 12/26/23 06:03			Analyzed: 12/26/23 18:20							
NWTPH-Dx													
Diesel	ND	100	200	ug/L	1	---	---	---	---	---	---		
Oil	ND	200	400	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 77 %		Limits: 50-150 %		Dilution: 1x							
LCS (23L0944-BS1)			Prepared: 12/26/23 06:03			Analyzed: 12/26/23 18:41							
NWTPH-Dx													
Diesel	996	100	200	ug/L	1	1250	---	80	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 84 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (23L0944-BSD1)			Prepared: 12/26/23 06:03			Analyzed: 12/26/23 19:02							Q-19
NWTPH-Dx													
Diesel	993	100	200	ug/L	1	1250	---	79	36-132%	0.3	30%		
Surr: o-Terphenyl (Surr)		Recovery: 86 %		Limits: 50-150 %		Dilution: 1x							

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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0633 - EPA 5030C						Water						
Blank (23L0633-BLK1)			Prepared: 12/16/23 10:05		Analyzed: 12/16/23 23:40							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		100 %		50-150 %		"						
LCS (23L0633-BS2)			Prepared: 12/16/23 10:05		Analyzed: 12/16/23 23:18							
NWTPH-Gx (MS)												
Gasoline Range Organics	411	50.0	100	ug/L	1	500	---	82	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		95 %		50-150 %		"						
Duplicate (23L0633-DUP1)			Prepared: 12/16/23 10:05		Analyzed: 12/17/23 08:17							
QC Source Sample: GS-121223-01 (A3L1208-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	129000	2500	5000	ug/L	50	---	127000	---	---	2	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 86 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		89 %		50-150 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0661 - EPA 5030C						Water						
Blank (23L0661-BLK1)			Prepared: 12/18/23 10:15 Analyzed: 12/18/23 13:09									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 84 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Surr)		100 %		50-150 %		"						
LCS (23L0661-BS2)			Prepared: 12/18/23 10:15 Analyzed: 12/18/23 12:47									
NWTPH-Gx (MS)												
Gasoline Range Organics	455	50.0	100	ug/L	1	500	---	91	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Surr)		96 %		50-150 %		"						
Duplicate (23L0661-DUP1)			Prepared: 12/18/23 10:15 Analyzed: 12/18/23 18:52									
QC Source Sample: Non-SDG (A3L1357-01)												
Gasoline Range Organics	18600	1000	2000	ug/L	20	---	18800	---	---	1	30%	F-12
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Surr)		110 %		50-150 %		"						

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845****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 23L0633 - EPA 5030C						Water						
Blank (23L0633-BLK1)			Prepared: 12/16/23 10:05		Analyzed: 12/16/23 23:40							
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 Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0633 - EPA 5030C						Water						
Blank (23L0633-BLK1)						Prepared: 12/16/23 10:05 Analyzed: 12/16/23 23:40						
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	10.0	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	5.00	5.00	ug/L	1	---	---	---	---	---	---	Q-54b
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0633 - EPA 5030C						Water						
Blank (23L0633-BLK1)				Prepared: 12/16/23 10:05		Analyzed: 12/16/23 23:40						
Surr: Toluene-d8 (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (23L0633-BS1)				Prepared: 12/16/23 10:05		Analyzed: 12/16/23 22:55						
EPA 8260D												
Acetone	42.5	10.0	20.0	ug/L	1	40.0	---	106	80-120%	---	---	
Acrylonitrile	18.4	1.00	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
Benzene	19.6	0.100	0.200	ug/L	1	20.0	---	98	80-120%	---	---	
Bromobenzene	19.3	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Bromochloromethane	19.7	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Bromodichloromethane	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Bromoform	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromomethane	22.7	5.00	5.00	ug/L	1	20.0	---	114	80-120%	---	---	
2-Butanone (MEK)	36.5	5.00	10.0	ug/L	1	40.0	---	91	80-120%	---	---	
n-Butylbenzene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
sec-Butylbenzene	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
tert-Butylbenzene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Carbon disulfide	20.3	5.00	10.0	ug/L	1	20.0	---	101	80-120%	---	---	
Carbon tetrachloride	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Chlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Chloroethane	21.6	5.00	5.00	ug/L	1	20.0	---	108	80-120%	---	---	
Chloroform	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Chloromethane	17.5	2.50	5.00	ug/L	1	20.0	---	87	80-120%	---	---	
2-Chlorotoluene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
4-Chlorotoluene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Dibromochloromethane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dibromo-3-chloropropane	16.2	2.50	5.00	ug/L	1	20.0	---	81	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Dibromomethane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dichlorobenzene	19.7	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,3-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
1,4-Dichlorobenzene	19.3	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Dichlorodifluoromethane	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,1-Dichloroethane	20.1	0.200	0.400	ug/L	1	20.0	---	101	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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0633 - EPA 5030C						Water						
LCS (23L0633-BS1)						Prepared: 12/16/23 10:05 Analyzed: 12/16/23 22:55						
1,2-Dichloroethane (EDC)	21.1	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
1,1-Dichloroethene	22.4	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
cis-1,2-Dichloroethene	18.4	0.200	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
trans-1,2-Dichloroethene	21.2	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,2-Dichloropropane	18.4	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
1,3-Dichloropropane	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
2,2-Dichloropropane	17.3	0.500	1.00	ug/L	1	20.0	---	86	80-120%	---	---	
1,1-Dichloropropene	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
cis-1,3-Dichloropropene	17.8	0.500	1.00	ug/L	1	20.0	---	89	80-120%	---	---	
trans-1,3-Dichloropropene	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Ethylbenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Hexachlorobutadiene	19.2	2.50	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
2-Hexanone	30.6	10.0	10.0	ug/L	1	40.0	---	77	80-120%	---	---	Q-55
Isopropylbenzene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Isopropyltoluene	19.7	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Methylene chloride	21.9	5.00	10.0	ug/L	1	20.0	---	110	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	33.4	5.00	10.0	ug/L	1	40.0	---	84	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Naphthalene	12.8	5.00	5.00	ug/L	1	20.0	---	64	80-120%	---	---	Q-54b
n-Propylbenzene	20.3	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Styrene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.6	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Tetrachloroethene (PCE)	21.1	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
Toluene	19.9	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2,3-Trichlorobenzene	18.5	1.00	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,2,4-Trichlorobenzene	16.0	1.00	2.00	ug/L	1	20.0	---	80	80-120%	---	---	
1,1,1-Trichloroethane	21.6	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
1,1,2-Trichloroethane	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Trichloroethene (TCE)	19.4	0.200	0.400	ug/L	1	20.0	---	97	80-120%	---	---	
Trichlorofluoromethane	25.9	1.00	2.00	ug/L	1	20.0	---	129	80-120%	---	---	Q-56
1,2,3-Trichloropropane	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,2,4-Trimethylbenzene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,3,5-Trimethylbenzene	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0633 - EPA 5030C						Water						
LCS (23L0633-BS1)			Prepared: 12/16/23 10:05		Analyzed: 12/16/23 22:55							
Vinyl chloride	18.6	0.100	0.200	ug/L	1	20.0	---	93	80-120%	---	---	
m,p-Xylene	45.2	0.500	1.00	ug/L	1	40.0	---	113	80-120%	---	---	
o-Xylene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"						

Duplicate (23L0633-DUP1)

Prepared: 12/16/23 10:05 Analyzed: 12/17/23 08:17

QC Source Sample: GS-121223-01 (A3L1208-01)

EPA 8260D

Acetone	ND	500	1000	ug/L	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
Benzene	30400	5.00	10.0	ug/L	50	---	29800	---	---	2	30%	E
Bromobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromoform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromomethane	ND	250	250	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroethane	ND	250	250	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chloromethane	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Dibromomethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	

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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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0633 - EPA 5030C						Water						
Duplicate (23L0633-DUP1)				Prepared: 12/16/23 10:05		Analyzed: 12/17/23 08:17						
QC Source Sample: GS-121223-01 (A3L1208-01)												
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Ethylbenzene	729	12.5	25.0	ug/L	50	---	723	---	---	0.8	30%	
Hexachlorobutadiene	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
2-Hexanone	ND	500	500	ug/L	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Methylene chloride	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Naphthalene	8940	250	250	ug/L	50	---	8720	---	---	3	30%	Q-54b
n-Propylbenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Styrene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
Toluene	6230	25.0	50.0	ug/L	50	---	6110	---	---	2	30%	
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0633 - EPA 5030C						Water						
Duplicate (23L0633-DUP1)			Prepared: 12/16/23 10:05 Analyzed: 12/17/23 08:17									
QC Source Sample: GS-121223-01 (A3L1208-01)												
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	40.5	25.0	50.0	ug/L	50	---	42.0	---	---	4	30%	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	10.0	5.00	10.0	ug/L	50	---	7.50	---	---	29	30%	
m,p-Xylene	609	25.0	50.0	ug/L	50	---	592	---	---	3	30%	
o-Xylene	247	12.5	25.0	ug/L	50	---	236	---	---	4	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 95 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

Matrix Spike (23L0633-MS1)

Prepared: 12/16/23 10:05 Analyzed: 12/17/23 01:55

QC Source Sample: Non-SDG (A3L1197-01)

EPA 8260D

Acetone	57.3	10.0	20.0	ug/L	1	40.0	ND	108	39-160%	---	---	
Acrylonitrile	20.1	1.00	2.00	ug/L	1	20.0	ND	101	63-135%	---	---	
Benzene	22.3	0.100	0.200	ug/L	1	20.0	ND	111	79-120%	---	---	
Bromobenzene	23.9	0.250	0.500	ug/L	1	20.0	ND	119	80-120%	---	---	
Bromochloromethane	21.3	0.500	1.00	ug/L	1	20.0	ND	107	78-123%	---	---	
Bromodichloromethane	23.2	0.500	1.00	ug/L	1	20.0	ND	116	79-125%	---	---	
Bromoform	25.2	0.500	1.00	ug/L	1	20.0	ND	126	66-130%	---	---	
Bromomethane	24.1	5.00	5.00	ug/L	1	20.0	ND	120	53-141%	---	---	
2-Butanone (MEK)	40.6	5.00	10.0	ug/L	1	40.0	ND	101	56-143%	---	---	
n-Butylbenzene	26.5	0.500	1.00	ug/L	1	20.0	ND	132	75-128%	---	---	Q-01
sec-Butylbenzene	28.2	0.500	1.00	ug/L	1	20.0	ND	141	77-126%	---	---	Q-01
tert-Butylbenzene	26.2	0.500	1.00	ug/L	1	20.0	ND	131	78-124%	---	---	Q-01
Carbon disulfide	23.7	5.00	10.0	ug/L	1	20.0	ND	119	64-133%	---	---	
Carbon tetrachloride	27.3	0.500	1.00	ug/L	1	20.0	ND	137	72-136%	---	---	Q-01
Chlorobenzene	23.3	0.250	0.500	ug/L	1	20.0	ND	117	80-120%	---	---	
Chloroethane	24.5	5.00	5.00	ug/L	1	20.0	ND	123	60-138%	---	---	
Chloroform	26.5	0.500	1.00	ug/L	1	20.0	2.90	118	79-124%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0633 - EPA 5030C						Water						
Matrix Spike (23L0633-MS1)			Prepared: 12/16/23 10:05		Analyzed: 12/17/23 01:55							
QC Source Sample: Non-SDG (A3L1197-01)												
Chloromethane	20.6	2.50	5.00	ug/L	1	20.0	ND	103	50-139%	---	---	
2-Chlorotoluene	24.5	0.500	1.00	ug/L	1	20.0	ND	123	79-122%	---	---	Q-01
4-Chlorotoluene	25.4	0.500	1.00	ug/L	1	20.0	ND	127	78-122%	---	---	Q-01
Dibromochloromethane	23.1	0.500	1.00	ug/L	1	20.0	ND	116	74-126%	---	---	
1,2-Dibromo-3-chloropropane	20.0	2.50	5.00	ug/L	1	20.0	ND	100	62-128%	---	---	
1,2-Dibromoethane (EDB)	22.2	0.250	0.500	ug/L	1	20.0	ND	111	77-121%	---	---	
Dibromomethane	23.2	0.500	1.00	ug/L	1	20.0	ND	116	79-123%	---	---	
1,2-Dichlorobenzene	24.3	0.250	0.500	ug/L	1	20.0	ND	121	80-120%	---	---	Q-01
1,3-Dichlorobenzene	25.8	0.250	0.500	ug/L	1	20.0	ND	129	80-120%	---	---	Q-01
1,4-Dichlorobenzene	23.8	0.250	0.500	ug/L	1	20.0	ND	119	79-120%	---	---	
Dichlorodifluoromethane	26.0	0.500	1.00	ug/L	1	20.0	ND	130	32-152%	---	---	
1,1-Dichloroethane	22.6	0.200	0.400	ug/L	1	20.0	ND	113	77-125%	---	---	
1,2-Dichloroethane (EDC)	23.0	0.200	0.400	ug/L	1	20.0	ND	115	73-128%	---	---	
1,1-Dichloroethene	26.8	0.200	0.400	ug/L	1	20.0	ND	134	71-131%	---	---	Q-01
cis-1,2-Dichloroethene	20.6	0.200	0.400	ug/L	1	20.0	ND	103	78-123%	---	---	
trans-1,2-Dichloroethene	24.4	0.200	0.400	ug/L	1	20.0	ND	122	75-124%	---	---	
1,2-Dichloropropane	20.4	0.250	0.500	ug/L	1	20.0	ND	102	78-122%	---	---	
1,3-Dichloropropane	20.7	0.500	1.00	ug/L	1	20.0	ND	104	80-120%	---	---	
2,2-Dichloropropane	19.4	0.500	1.00	ug/L	1	20.0	ND	97	60-139%	---	---	
1,1-Dichloropropene	23.2	0.500	1.00	ug/L	1	20.0	ND	116	79-125%	---	---	
cis-1,3-Dichloropropene	15.9	0.500	1.00	ug/L	1	20.0	ND	80	75-124%	---	---	
trans-1,3-Dichloropropene	21.7	0.500	1.00	ug/L	1	20.0	ND	108	73-127%	---	---	
Ethylbenzene	24.2	0.250	0.500	ug/L	1	20.0	ND	121	79-121%	---	---	
Hexachlorobutadiene	25.0	2.50	5.00	ug/L	1	20.0	ND	125	66-134%	---	---	
2-Hexanone	36.7	10.0	10.0	ug/L	1	40.0	ND	92	57-139%	---	---	Q-54e
Isopropylbenzene	25.3	0.500	1.00	ug/L	1	20.0	ND	127	72-131%	---	---	
4-Isopropyltoluene	25.7	0.500	1.00	ug/L	1	20.0	ND	128	77-127%	---	---	Q-01
Methylene chloride	23.0	5.00	10.0	ug/L	1	20.0	ND	115	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	37.8	5.00	10.0	ug/L	1	40.0	ND	95	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	20.8	0.500	1.00	ug/L	1	20.0	ND	104	71-124%	---	---	
Naphthalene	17.0	5.00	5.00	ug/L	1	20.0	ND	85	61-128%	---	---	Q-54b
n-Propylbenzene	26.0	0.250	0.500	ug/L	1	20.0	ND	130	76-126%	---	---	Q-01
Styrene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	78-123%	---	---	

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Darwin Thomas, Business Development Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street

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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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0633 - EPA 5030C						Water						
Matrix Spike (23L0633-MS1)			Prepared: 12/16/23 10:05		Analyzed: 12/17/23 01:55							
QC Source Sample: Non-SDG (A3L1197-01)												
1,1,1,2-Tetrachloroethane	23.3	0.200	0.400	ug/L	1	20.0	ND	117	78-124%	---	---	
1,1,2,2-Tetrachloroethane	23.8	0.250	0.500	ug/L	1	20.0	ND	119	71-121%	---	---	
Tetrachloroethene (PCE)	25.3	0.200	0.400	ug/L	1	20.0	ND	126	74-129%	---	---	
Toluene	22.8	0.500	1.00	ug/L	1	20.0	ND	114	80-121%	---	---	
1,2,3-Trichlorobenzene	23.0	1.00	2.00	ug/L	1	20.0	ND	115	69-129%	---	---	
1,2,4-Trichlorobenzene	20.2	1.00	2.00	ug/L	1	20.0	ND	101	69-130%	---	---	
1,1,1-Trichloroethane	25.2	0.200	0.400	ug/L	1	20.0	ND	126	74-131%	---	---	
1,1,2-Trichloroethane	23.3	0.250	0.500	ug/L	1	20.0	ND	116	80-120%	---	---	
Trichloroethene (TCE)	22.2	0.200	0.400	ug/L	1	20.0	ND	111	79-123%	---	---	
Trichlorofluoromethane	31.9	1.00	2.00	ug/L	1	20.0	ND	159	65-141%	---	---	Q-54a
1,2,3-Trichloropropane	24.6	0.500	1.00	ug/L	1	20.0	ND	123	73-122%	---	---	Q-01
1,2,4-Trimethylbenzene	27.4	0.500	1.00	ug/L	1	20.0	ND	137	76-124%	---	---	Q-01
1,3,5-Trimethylbenzene	27.1	0.500	1.00	ug/L	1	20.0	ND	135	75-124%	---	---	Q-01
Vinyl chloride	22.9	0.100	0.200	ug/L	1	20.0	ND	114	58-137%	---	---	
m,p-Xylene	52.8	0.500	1.00	ug/L	1	40.0	ND	132	80-121%	---	---	Q-01
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)		94 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

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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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845****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 23L0661 - EPA 5030C						Water						
Blank (23L0661-BLK1)			Prepared: 12/18/23 10:15		Analyzed: 12/18/23 13:09							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0661 - EPA 5030C						Water						
Blank (23L0661-BLK1)						Prepared: 12/18/23 10:15 Analyzed: 12/18/23 13:09						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	10.0	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	10.0	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % 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 23L0661 - EPA 5030C						Water						
Blank (23L0661-BLK1)			Prepared: 12/18/23 10:15		Analyzed: 12/18/23 13:09							
Surr: Toluene-d8 (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
LCS (23L0661-BS1)			Prepared: 12/18/23 10:15		Analyzed: 12/18/23 11:42							
EPA 8260D												
Acetone	40.0	10.0	20.0	ug/L	1	40.0	---	100	80-120%	---	---	
Acrylonitrile	16.8	1.00	2.00	ug/L	1	20.0	---	84	80-120%	---	---	
Benzene	17.9	0.100	0.200	ug/L	1	20.0	---	90	80-120%	---	---	
Bromobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Bromochloromethane	18.0	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
Bromodichloromethane	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Bromoform	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Bromomethane	20.5	5.00	5.00	ug/L	1	20.0	---	102	80-120%	---	---	
2-Butanone (MEK)	33.3	5.00	10.0	ug/L	1	40.0	---	83	80-120%	---	---	
n-Butylbenzene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
sec-Butylbenzene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
tert-Butylbenzene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Carbon disulfide	18.8	5.00	10.0	ug/L	1	20.0	---	94	80-120%	---	---	
Carbon tetrachloride	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Chlorobenzene	19.0	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Chloroethane	19.8	5.00	5.00	ug/L	1	20.0	---	99	80-120%	---	---	
Chloroform	19.7	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Chloromethane	16.3	2.50	5.00	ug/L	1	20.0	---	82	80-120%	---	---	
2-Chlorotoluene	18.3	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
4-Chlorotoluene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Dibromochloromethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dibromo-3-chloropropane	16.0	2.50	5.00	ug/L	1	20.0	---	80	80-120%	---	---	
1,2-Dibromoethane (EDB)	18.9	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Dibromomethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichlorobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
1,3-Dichlorobenzene	19.5	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,4-Dichlorobenzene	18.5	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Dichlorodifluoromethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1-Dichloroethane	18.5	0.200	0.400	ug/L	1	20.0	---	93	80-120%	---	---	

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0661 - EPA 5030C						Water						
LCS (23L0661-BS1)						Prepared: 12/18/23 10:15 Analyzed: 12/18/23 11:42						
1,2-Dichloroethane (EDC)	19.5	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,1-Dichloroethene	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
cis-1,2-Dichloroethene	16.5	0.200	0.400	ug/L	1	20.0	---	82	80-120%	---	---	
trans-1,2-Dichloroethene	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
1,2-Dichloropropane	16.9	0.250	0.500	ug/L	1	20.0	---	85	80-120%	---	---	
1,3-Dichloropropane	17.5	0.500	1.00	ug/L	1	20.0	---	87	80-120%	---	---	
2,2-Dichloropropane	18.9	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,1-Dichloropropene	18.0	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
cis-1,3-Dichloropropene	17.2	0.500	1.00	ug/L	1	20.0	---	86	80-120%	---	---	
trans-1,3-Dichloropropene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Ethylbenzene	19.3	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Hexachlorobutadiene	18.4	2.50	5.00	ug/L	1	20.0	---	92	80-120%	---	---	
2-Hexanone	28.9	10.0	10.0	ug/L	1	40.0	---	72	80-120%	---	---	Q-55
Isopropylbenzene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
4-Isopropyltoluene	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Methylene chloride	20.0	5.00	10.0	ug/L	1	20.0	---	100	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	31.2	10.0	10.0	ug/L	1	40.0	---	78	80-120%	---	---	Q-55
Methyl tert-butyl ether (MTBE)	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Naphthalene	12.5	5.00	5.00	ug/L	1	20.0	---	63	80-120%	---	---	Q-55
n-Propylbenzene	18.9	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Styrene	18.7	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,1,1,2-Tetrachloroethane	19.4	0.200	0.400	ug/L	1	20.0	---	97	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.1	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Tetrachloroethene (PCE)	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
Toluene	18.5	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,2,3-Trichlorobenzene	17.6	1.00	2.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,2,4-Trichlorobenzene	15.0	2.00	2.00	ug/L	1	20.0	---	75	80-120%	---	---	Q-55
1,1,1-Trichloroethane	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,1,2-Trichloroethane	19.7	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Trichloroethene (TCE)	17.9	0.200	0.400	ug/L	1	20.0	---	89	80-120%	---	---	
Trichlorofluoromethane	24.3	1.00	2.00	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
1,2,3-Trichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,4-Trimethylbenzene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,3,5-Trimethylbenzene	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

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Project Number: 000029-02.84 T-01.001E

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0661 - EPA 5030C						Water						
LCS (23L0661-BS1)			Prepared: 12/18/23 10:15		Analyzed: 12/18/23 11:42							
Vinyl chloride	16.9	0.100	0.200	ug/L	1	20.0	---	85	80-120%	---	---	
m,p-Xylene	42.1	0.500	1.00	ug/L	1	40.0	---	105	80-120%	---	---	
o-Xylene	17.4	0.250	0.500	ug/L	1	20.0	---	87	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						

Duplicate (23L0661-DUP1)

Prepared: 12/18/23 10:15 Analyzed: 12/18/23 18:52

QC Source Sample: Non-SDG (A3L1357-01)

Acetone	ND	200	400	ug/L	20	---	ND	---	---	---	30%
Acrylonitrile	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%
Benzene	ND	2.00	4.00	ug/L	20	---	ND	---	---	---	30%
Bromobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Bromochloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromodichloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromoform	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromomethane	ND	100	100	ug/L	20	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	100	200	ug/L	20	---	ND	---	---	---	30%
n-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
sec-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
tert-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Carbon disulfide	ND	100	200	ug/L	20	---	ND	---	---	---	30%
Carbon tetrachloride	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Chlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Chloroethane	ND	100	100	ug/L	20	---	ND	---	---	---	30%
Chloroform	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Chloromethane	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%
2-Chlorotoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
4-Chlorotoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Dibromochloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Dibromomethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0661 - EPA 5030C						Water						
Duplicate (23L0661-DUP1)			Prepared: 12/18/23 10:15		Analyzed: 12/18/23 18:52							
QC Source Sample: Non-SDG (A3L1357-01)												
1,3-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloroethane	5.40	4.00	8.00	ug/L	20	---	4.80	---	---	12	30%	J
1,2-Dichloroethane (EDC)	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloroethene	6.60	4.00	8.00	ug/L	20	---	7.40	---	---	11	30%	J
cis-1,2-Dichloroethene	710	4.00	8.00	ug/L	20	---	732	---	---	3	30%	
trans-1,2-Dichloroethene	8.00	4.00	8.00	ug/L	20	---	8.20	---	---	2	30%	
1,2-Dichloropropane	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Ethylbenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%	
2-Hexanone	ND	200	200	ug/L	20	---	ND	---	---	---	30%	
Isopropylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Methylene chloride	ND	100	200	ug/L	20	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	200	200	ug/L	20	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Naphthalene	ND	100	100	ug/L	20	---	ND	---	---	---	30%	
n-Propylbenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Styrene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	7160	4.00	8.00	ug/L	20	---	7210	---	---	0.7	30%	E
Toluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	40.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director

Page 54 of 81



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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 23L0661 - EPA 5030C						Water						
Duplicate (23L0661-DUP1)			Prepared: 12/18/23 10:15		Analyzed: 12/18/23 18:52							
QC Source Sample: Non-SDG (A3L1357-01)												
Trichloroethene (TCE)	766	4.00	8.00	ug/L	20	---	776	---	---	1	30%	
Trichlorofluoromethane	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Vinyl chloride	9.80	2.00	4.00	ug/L	20	---	10.4	---	---	6	30%	
m,p-Xylene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
o-Xylene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 114 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						

Matrix Spike (23L0661-MS1)

Prepared: 12/18/23 10:15 Analyzed: 12/18/23 17:22

QC Source Sample: Non-SDG (A3L1357-08)

EPA 8260D

Acetone	43.2	10.0	20.0	ug/L	1	40.0	ND	108	39-160%	---	---	
Acrylonitrile	17.2	1.00	2.00	ug/L	1	20.0	ND	86	63-135%	---	---	
Benzene	19.3	0.100	0.200	ug/L	1	20.0	ND	96	79-120%	---	---	
Bromobenzene	18.9	0.250	0.500	ug/L	1	20.0	ND	95	80-120%	---	---	
Bromochloromethane	18.4	0.500	1.00	ug/L	1	20.0	ND	92	78-123%	---	---	
Bromodichloromethane	19.8	0.500	1.00	ug/L	1	20.0	ND	99	79-125%	---	---	
Bromoform	21.4	0.500	1.00	ug/L	1	20.0	ND	107	66-130%	---	---	
Bromomethane	22.7	5.00	5.00	ug/L	1	20.0	ND	113	53-141%	---	---	
2-Butanone (MEK)	35.2	5.00	10.0	ug/L	1	40.0	ND	88	56-143%	---	---	
n-Butylbenzene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	75-128%	---	---	
sec-Butylbenzene	22.1	0.500	1.00	ug/L	1	20.0	ND	110	77-126%	---	---	
tert-Butylbenzene	20.0	0.500	1.00	ug/L	1	20.0	ND	100	78-124%	---	---	
Carbon disulfide	20.4	5.00	10.0	ug/L	1	20.0	ND	102	64-133%	---	---	
Carbon tetrachloride	23.2	0.500	1.00	ug/L	1	20.0	ND	116	72-136%	---	---	
Chlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	ND	99	80-120%	---	---	
Chloroethane	21.1	5.00	5.00	ug/L	1	20.0	ND	106	60-138%	---	---	
Chloroform	20.6	0.500	1.00	ug/L	1	20.0	ND	103	79-124%	---	---	
Chloromethane	18.0	2.50	5.00	ug/L	1	20.0	ND	90	50-139%	---	---	

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0661 - EPA 5030C						Water						
Matrix Spike (23L0661-MS1)			Prepared: 12/18/23 10:15		Analyzed: 12/18/23 17:22							
QC Source Sample: Non-SDG (A3L1357-08)												
2-Chlorotoluene	19.1	0.500	1.00	ug/L	1	20.0	ND	95	79-122%	---	---	
4-Chlorotoluene	20.0	0.500	1.00	ug/L	1	20.0	ND	100	78-122%	---	---	
Dibromochloromethane	19.5	0.500	1.00	ug/L	1	20.0	ND	98	74-126%	---	---	
1,2-Dibromo-3-chloropropane	16.1	2.50	5.00	ug/L	1	20.0	ND	80	62-128%	---	---	
1,2-Dibromoethane (EDB)	19.2	0.250	0.500	ug/L	1	20.0	ND	96	77-121%	---	---	
Dibromomethane	20.1	0.500	1.00	ug/L	1	20.0	ND	101	79-123%	---	---	
1,2-Dichlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	ND	96	80-120%	---	---	
1,3-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
1,4-Dichlorobenzene	18.9	0.250	0.500	ug/L	1	20.0	ND	94	79-120%	---	---	
Dichlorodifluoromethane	22.3	0.500	1.00	ug/L	1	20.0	ND	112	32-152%	---	---	
1,1-Dichloroethane	19.6	0.200	0.400	ug/L	1	20.0	ND	98	77-125%	---	---	
1,2-Dichloroethane (EDC)	19.9	0.200	0.400	ug/L	1	20.0	0.200	98	73-128%	---	---	
1,1-Dichloroethene	22.9	0.200	0.400	ug/L	1	20.0	ND	115	71-131%	---	---	
cis-1,2-Dichloroethene	18.2	0.200	0.400	ug/L	1	20.0	0.310	89	78-123%	---	---	
trans-1,2-Dichloroethene	21.1	0.200	0.400	ug/L	1	20.0	ND	105	75-124%	---	---	
1,2-Dichloropropane	17.8	0.250	0.500	ug/L	1	20.0	ND	89	78-122%	---	---	
1,3-Dichloropropane	17.8	0.500	1.00	ug/L	1	20.0	ND	89	80-120%	---	---	
2,2-Dichloropropane	20.2	0.500	1.00	ug/L	1	20.0	ND	101	60-139%	---	---	
1,1-Dichloropropene	20.3	0.500	1.00	ug/L	1	20.0	ND	101	79-125%	---	---	
cis-1,3-Dichloropropene	14.3	0.500	1.00	ug/L	1	20.0	ND	72	75-124%	---	---	Q-01
trans-1,3-Dichloropropene	19.4	0.500	1.00	ug/L	1	20.0	ND	97	73-127%	---	---	
Ethylbenzene	20.4	0.250	0.500	ug/L	1	20.0	ND	102	79-121%	---	---	
Hexachlorobutadiene	19.5	2.50	5.00	ug/L	1	20.0	ND	97	66-134%	---	---	
2-Hexanone	30.0	10.0	10.0	ug/L	1	40.0	ND	75	57-139%	---	---	Q-54g
Isopropylbenzene	21.5	0.500	1.00	ug/L	1	20.0	ND	107	72-131%	---	---	
4-Isopropyltoluene	20.3	0.500	1.00	ug/L	1	20.0	ND	101	77-127%	---	---	
Methylene chloride	19.9	5.00	10.0	ug/L	1	20.0	ND	99	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	32.9	10.0	10.0	ug/L	1	40.0	ND	82	67-130%	---	---	Q-54d
Methyl tert-butyl ether (MTBE)	18.8	0.500	1.00	ug/L	1	20.0	ND	94	71-124%	---	---	
Naphthalene	14.2	5.00	5.00	ug/L	1	20.0	ND	71	61-128%	---	---	Q-54c
n-Propylbenzene	20.5	0.250	0.500	ug/L	1	20.0	ND	103	76-126%	---	---	
Styrene	19.5	0.500	1.00	ug/L	1	20.0	ND	98	78-123%	---	---	
1,1,1,2-Tetrachloroethane	19.7	0.200	0.400	ug/L	1	20.0	ND	98	78-124%	---	---	

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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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0661 - EPA 5030C						Water						
Matrix Spike (23L0661-MS1)			Prepared: 12/18/23 10:15		Analyzed: 12/18/23 17:22							
QC Source Sample: Non-SDG (A3L1357-08)												
1,1,2,2-Tetrachloroethane	19.1	0.250	0.500	ug/L	1	20.0	ND	95	71-121%	---	---	Q-03
Tetrachloroethene (PCE)	121	0.200	0.400	ug/L	1	20.0	124	-16	74-129%	---	---	
Toluene	19.4	0.500	1.00	ug/L	1	20.0	ND	97	80-121%	---	---	
1,2,3-Trichlorobenzene	18.1	1.00	2.00	ug/L	1	20.0	ND	91	69-129%	---	---	Q-54f
1,2,4-Trichlorobenzene	16.3	2.00	2.00	ug/L	1	20.0	ND	81	69-130%	---	---	
1,1,1-Trichloroethane	21.8	0.200	0.400	ug/L	1	20.0	ND	109	74-131%	---	---	
1,1,2-Trichloroethane	19.9	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	Q-54
Trichloroethene (TCE)	19.8	0.200	0.400	ug/L	1	20.0	0.540	96	79-123%	---	---	
Trichlorofluoromethane	27.0	1.00	2.00	ug/L	1	20.0	ND	135	65-141%	---	---	
1,2,3-Trichloropropane	19.2	0.500	1.00	ug/L	1	20.0	ND	96	73-122%	---	---	
1,2,4-Trimethylbenzene	21.4	0.500	1.00	ug/L	1	20.0	ND	107	76-124%	---	---	
1,3,5-Trimethylbenzene	21.3	0.500	1.00	ug/L	1	20.0	ND	107	75-124%	---	---	
Vinyl chloride	19.6	0.100	0.200	ug/L	1	20.0	ND	98	58-137%	---	---	
m,p-Xylene	44.7	0.500	1.00	ug/L	1	40.0	ND	112	80-121%	---	---	
o-Xylene	18.6	0.250	0.500	ug/L	1	20.0	ND	93	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		94 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845****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 23L0777 - EPA 5030C						Water						
Blank (23L0777-BLK1)			Prepared: 12/20/23 08:53		Analyzed: 12/20/23 11:34							
EPA 8260D												
Naphthalene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
LCS (23L0777-BS1)			Prepared: 12/20/23 08:53		Analyzed: 12/20/23 10:35							
EPA 8260D												
Naphthalene	18.6	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						
Duplicate (23L0777-DUP1)			Prepared: 12/20/23 08:53		Analyzed: 12/20/23 14:44							
QC Source Sample: Non-SDG (A3L1394-02)												
Naphthalene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
Duplicate (23L0777-DUP2)			Prepared: 12/20/23 08:53		Analyzed: 12/20/23 22:26							
QC Source Sample: Non-SDG (A3L1470-08)												
Naphthalene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 95 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
Matrix Spike (23L0777-MS1)			Prepared: 12/20/23 08:53		Analyzed: 12/20/23 17:00							
QC Source Sample: Non-SDG (A3L1395-04)												
EPA 8260D												
Naphthalene	32.8	2.50	5.00	ug/L	1	20.0	10.6	111	61-128%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0777 - EPA 5030C							Water					
Matrix Spike (23L0777-MS1)			Prepared: 12/20/23 08:53 Analyzed: 12/20/23 17:00									
QC Source Sample: Non-SDG (A3L1395-04)												
Surr: Toluene-d8 (Surr)		Recovery: 95 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		104 %		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 23L0756 - EPA 5030C						Water						
Blank (23L0756-BLK1)			Prepared: 12/19/23 15:18 Analyzed: 12/19/23 17:58									
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: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
LCS (23L0756-BS1)			Prepared: 12/19/23 15:18 Analyzed: 12/19/23 17:02									
EPA 8260D SIM												
1,1-Dichloroethene	0.162	0.0100	0.0200	ug/L	1	0.200	---	81	80-120%	---	---	
cis-1,2-Dichloroethene	0.163	0.0100	0.0200	ug/L	1	0.200	---	81	80-120%	---	---	
trans-1,2-Dichloroethene	0.163	0.0100	0.0200	ug/L	1	0.200	---	81	80-120%	---	---	
Trichloroethene (TCE)	0.181	0.0100	0.0200	ug/L	1	0.200	---	90	80-120%	---	---	
Vinyl chloride	0.161	0.0100	0.0200	ug/L	1	0.200	---	80	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
Duplicate (23L0756-DUP1)			Prepared: 12/19/23 15:18 Analyzed: 12/19/23 20:40									
QC Source Sample: Non-SDG (A3L1136-05)												
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		91 %		80-120 %		"						
Matrix Spike (23L0756-MS1)			Prepared: 12/19/23 15:18 Analyzed: 12/20/23 03:50									

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0756 - EPA 5030C						Water						
Matrix Spike (23L0756-MS1)			Prepared: 12/19/23 15:18 Analyzed: 12/20/23 03:50									
QC Source Sample: GS-121223-02 (A3L1208-02)												
EPA 8260D SIM												
1,1-Dichloroethene	5.32	0.250	0.500	ug/L	25	5.00	ND	106	71-131%	---	---	
cis-1,2-Dichloroethene	5.26	0.250	0.500	ug/L	25	5.00	ND	105	78-123%	---	---	
trans-1,2-Dichloroethene	5.52	0.250	0.500	ug/L	25	5.00	ND	110	75-124%	---	---	
Trichloroethene (TCE)	5.11	0.250	0.500	ug/L	25	5.00	ND	102	79-123%	---	---	
Vinyl chloride	5.62	0.250	0.500	ug/L	25	5.00	ND	112	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0581 - EPA 3511 (Bottle Extraction)						Water						
Blank (23L0581-BLK1)			Prepared: 12/15/23 08:38		Analyzed: 12/15/23 12:11							
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b+j)fluoranthene(s)	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 114 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		118 %		80-132 %		"						

LCS (23L0581-BS1)

Prepared: 12/15/23 08:38 Analyzed: 12/15/23 12:43

EPA 8270E LVI

Acenaphthene	1.55	0.0160	0.0320	ug/L	1	1.60	---	97	80-120%	---	---
Acenaphthylene	1.64	0.0160	0.0320	ug/L	1	1.60	---	102	80-124%	---	---
Anthracene	1.53	0.0160	0.0320	ug/L	1	1.60	---	95	80-123%	---	---
Benz(a)anthracene	1.57	0.00800	0.0160	ug/L	1	1.60	---	98	80-122%	---	---
Benzo(a)pyrene	1.72	0.00800	0.0160	ug/L	1	1.60	---	108	80-129%	---	---
Benzo(b+j)fluoranthene(s)	1.66	0.00800	0.0160	ug/L	1	1.60	---	104	80-124%	---	---
Benzo(k)fluoranthene	1.63	0.00800	0.0160	ug/L	1	1.60	---	102	80-125%	---	---
Benzo(g,h,i)perylene	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	80-120%	---	---

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Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0581 - EPA 3511 (Bottle Extraction)						Water						
LCS (23L0581-BS1)			Prepared: 12/15/23 08:38		Analyzed: 12/15/23 12:43							
Chrysene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-120%	---	---	
Dibenz(a,h)anthracene	1.55	0.00800	0.0160	ug/L	1	1.60	---	97	80-120%	---	---	
Fluoranthene	1.75	0.0160	0.0320	ug/L	1	1.60	---	109	80-126%	---	---	
Fluorene	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.45	0.00800	0.0160	ug/L	1	1.60	---	91	80-121%	---	---	
1-Methylnaphthalene	1.70	0.0320	0.0640	ug/L	1	1.60	---	106	53-148%	---	---	
2-Methylnaphthalene	1.65	0.0320	0.0640	ug/L	1	1.60	---	103	48-150%	---	---	
Naphthalene	1.54	0.0320	0.0640	ug/L	1	1.60	---	96	78-120%	---	---	
Phenanthrene	1.49	0.0320	0.0640	ug/L	1	1.60	---	93	80-120%	---	---	
Pyrene	1.76	0.0160	0.0320	ug/L	1	1.60	---	110	80-125%	---	---	
Carbazole	1.64	0.0160	0.0320	ug/L	1	1.60	---	103	65-141%	---	---	
Dibenzofuran	1.58	0.0160	0.0320	ug/L	1	1.60	---	99	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 113 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		116 %		80-132 %		"						

LCS Dup (23L0581-BSD1)				Prepared: 12/15/23 08:38 Analyzed: 12/15/23 13:15								Q-19
EPA 8270E LVI												
Acenaphthene	1.53	0.0160	0.0320	ug/L	1	1.60	---	96	80-120%	1	30%	
Acenaphthylene	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	80-124%	1	30%	
Anthracene	1.56	0.0160	0.0320	ug/L	1	1.60	---	98	80-123%	2	30%	
Benz(a)anthracene	1.58	0.00800	0.0160	ug/L	1	1.60	---	99	80-122%	0.5	30%	
Benzo(a)pyrene	1.74	0.00800	0.0160	ug/L	1	1.60	---	109	80-129%	1	30%	
Benzo(b+j)fluoranthene(s)	1.68	0.00800	0.0160	ug/L	1	1.60	---	105	80-124%	1	30%	
Benzo(k)fluoranthene	1.66	0.00800	0.0160	ug/L	1	1.60	---	104	80-125%	2	30%	
Benzo(g,h,i)perylene	1.55	0.0160	0.0320	ug/L	1	1.60	---	97	80-120%	0.5	30%	
Chrysene	1.55	0.00800	0.0160	ug/L	1	1.60	---	97	80-120%	0.5	30%	
Dibenz(a,h)anthracene	1.57	0.00800	0.0160	ug/L	1	1.60	---	98	80-120%	1	30%	
Fluoranthene	1.77	0.0160	0.0320	ug/L	1	1.60	---	111	80-126%	1	30%	
Fluorene	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	77-127%	0.6	30%	
Indeno(1,2,3-cd)pyrene	1.45	0.00800	0.0160	ug/L	1	1.60	---	91	80-121%	0.2	30%	
1-Methylnaphthalene	1.52	0.0320	0.0640	ug/L	1	1.60	---	95	53-148%	11	30%	
2-Methylnaphthalene	1.46	0.0320	0.0640	ug/L	1	1.60	---	91	48-150%	12	30%	
Naphthalene	1.49	0.0320	0.0640	ug/L	1	1.60	---	93	78-120%	3	30%	
Phenanthrene	1.50	0.0320	0.0640	ug/L	1	1.60	---	94	80-120%	0.5	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0581 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (23L0581-BS1)			Prepared: 12/15/23 08:38 Analyzed: 12/15/23 13:15								Q-19	
Pyrene	1.79	0.0160	0.0320	ug/L	1	1.60	---	112	80-125%	2	30%	
Carbazole	1.70	0.0160	0.0320	ug/L	1	1.60	---	106	65-141%	3	30%	
Dibenzofuran	1.56	0.0160	0.0320	ug/L	1	1.60	---	97	76-121%	1	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 113 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		118 %		80-132 %		"						

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A3L1208 - 03 06 24 0845

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 23L1050 - EPA 3015A						Water						
Blank (23L1050-BLK1)				Prepared: 12/28/23 10:14		Analyzed: 12/29/23 08:06						
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	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	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	---	---	---	---	---	---	
Blank (23L1050-BLK2)				Prepared: 12/28/23 10:14		Analyzed: 01/02/24 19:51						
EPA 6020B												
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	Q-16
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	Q-16
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	Q-16
LCS (23L1050-BS1)				Prepared: 12/28/23 10:14		Analyzed: 12/29/23 08:11						
EPA 6020B												
Aluminum	2880	25.0	50.0	ug/L	1	2780	---	104	80-120%	---	---	
Antimony	27.7	0.500	1.00	ug/L	1	27.8	---	100	80-120%	---	---	
Arsenic	54.4	0.500	1.00	ug/L	1	55.6	---	98	80-120%	---	---	
Barium	57.6	1.00	2.00	ug/L	1	55.6	---	104	80-120%	---	---	
Beryllium	27.0	0.100	0.200	ug/L	1	27.8	---	97	80-120%	---	---	
Cadmium	56.2	0.500	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Chromium	55.4	1.00	2.00	ug/L	1	55.6	---	100	80-120%	---	---	
Iron	2690	25.0	50.0	ug/L	1	2780	---	97	80-120%	---	---	
Lead	56.1	0.110	0.200	ug/L	1	55.6	---	101	80-120%	---	---	

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ANALYTICAL REPORT

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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 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L1050 - EPA 3015A						Water						
LCS (23L1050-BS1)				Prepared: 12/28/23 10:14		Analyzed: 12/29/23 08:11						
Manganese	56.7	0.500	1.00	ug/L	1	55.6	---	102	80-120%	---	---	
Mercury	1.13	0.0400	0.0800	ug/L	1	1.11	---	101	80-120%	---	---	
Nickel	58.2	1.00	2.00	ug/L	1	55.6	---	105	80-120%	---	---	
Selenium	27.2	0.500	1.00	ug/L	1	27.8	---	98	80-120%	---	---	
Silver	30.0	0.100	0.200	ug/L	1	27.8	---	108	80-120%	---	---	
Thallium	27.5	0.100	0.200	ug/L	1	27.8	---	99	80-120%	---	---	
Vanadium	55.8	1.00	2.00	ug/L	1	55.6	---	100	80-120%	---	---	
Zinc	56.9	2.00	4.00	ug/L	1	55.6	---	102	80-120%	---	---	
LCS (23L1050-BS3)				Prepared: 12/28/23 10:14		Analyzed: 01/03/24 20:34						
EPA 6020B												
Copper	54.2	1.00	2.00	ug/L	1	55.6	---	98	80-120%	---	---	Q-16
Duplicate (23L1050-DUP1)				Prepared: 12/28/23 10:14		Analyzed: 12/29/23 08:22						
QC Source Sample: Non-SDG (A3L1148-01)												
Aluminum	1380	25.0	50.0	ug/L	1	---	1170	---	---	17	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	3.90	0.500	1.00	ug/L	1	---	3.89	---	---	0.04	20%	
Barium	454	1.00	2.00	ug/L	1	---	464	---	---	2	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	0.121	---	---	***	20%	
Cadmium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Chromium	1.14	1.00	2.00	ug/L	1	---	1.05	---	---	8	20%	J
Copper	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Manganese	777	0.500	1.00	ug/L	1	---	765	---	---	2	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	2.13	1.00	2.00	ug/L	1	---	2.00	---	---	6	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	1.64	1.00	2.00	ug/L	1	---	1.48	---	---	10	20%	J
Zinc	4.06	2.00	4.00	ug/L	1	---	3.62	---	---	11	20%	
Duplicate (23L1050-DUP2)				Prepared: 12/28/23 10:14		Analyzed: 12/29/23 10:16						

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Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L1050 - EPA 3015A												
Water												
Duplicate (23L1050-DUP2) Prepared: 12/28/23 10:14 Analyzed: 12/29/23 10:16												
QC Source Sample: Non-SDG (A3L1148-01RE1)												
Iron	67000	250	500	ug/L	10	---	64800	---	---	3	20%	Q-16
Duplicate (23L1050-DUP4) Prepared: 12/28/23 10:14 Analyzed: 01/03/24 20:55												
QC Source Sample: Non-SDG (A3L1148-01RE1)												
Lead	0.916	0.110	0.200	ug/L	1	---	0.948	---	---	3	20%	Q-16
Matrix Spike (23L1050-MS1) Prepared: 12/28/23 10:14 Analyzed: 12/29/23 08:33												
QC Source Sample: Non-SDG (A3L1148-03)												
EPA 6020B												
Aluminum	2910	25.0	50.0	ug/L	1	2780	49.9	103	75-125%	---	---	
Antimony	29.0	0.500	1.00	ug/L	1	27.8	ND	104	75-125%	---	---	
Arsenic	58.0	0.500	1.00	ug/L	1	55.6	1.72	101	75-125%	---	---	
Barium	310	1.00	2.00	ug/L	1	55.6	252	104	75-125%	---	---	
Beryllium	27.8	0.100	0.200	ug/L	1	27.8	ND	100	75-125%	---	---	
Cadmium	55.5	0.500	1.00	ug/L	1	55.6	ND	100	75-125%	---	---	
Chromium	56.8	1.00	2.00	ug/L	1	55.6	ND	102	75-125%	---	---	
Iron	42000	25.0	50.0	ug/L	1	2780	40000	70	75-125%	---	---	Q-65
Lead	55.6	0.110	0.200	ug/L	1	55.6	ND	100	75-125%	---	---	
Manganese	1420	0.500	1.00	ug/L	1	55.6	1390	53	75-125%	---	---	Q-65
Mercury	1.11	0.0400	0.0800	ug/L	1	1.11	ND	100	75-125%	---	---	
Nickel	58.5	1.00	2.00	ug/L	1	55.6	1.11	103	75-125%	---	---	
Selenium	27.3	0.500	1.00	ug/L	1	27.8	ND	98	75-125%	---	---	
Silver	30.4	0.100	0.200	ug/L	1	27.8	ND	110	75-125%	---	---	
Thallium	28.0	0.100	0.200	ug/L	1	27.8	ND	101	75-125%	---	---	
Vanadium	58.7	1.00	2.00	ug/L	1	55.6	1.07	104	75-125%	---	---	
Zinc	56.9	2.00	4.00	ug/L	1	55.6	ND	102	75-125%	---	---	
Matrix Spike (23L1050-MS3) Prepared: 12/28/23 10:14 Analyzed: 01/03/24 20:39												
QC Source Sample: Non-SDG (A3L1148-03)												
EPA 6020B												
Copper	56.0	1.00	2.00	ug/L	1	55.6	ND	101	75-125%	---	---	Q-16

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

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 23L0902 - Lachat Micro Dist - aqueous						Water						
Blank (23L0902-BLK1)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 12:56									
<u>EPA 335.4</u>												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23L0902-BS1)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 12:58									
<u>EPA 335.4</u>												
Total Cyanide	0.250	0.00500	0.00500	mg/L	1	0.250	---	100	90-110%	---	---	
Duplicate (23L0902-DUP1)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 13:10									
<u>QC Source Sample: GS-121223-03 (A3L1208-03RE1)</u>												
<u>EPA 335.4</u>												
Total Cyanide	0.0463	0.00500	0.00500	mg/L	1	---	0.0469	---	---	1	10%	
Matrix Spike (23L0902-MS1)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 13:12									
<u>QC Source Sample: GS-121223-03 (A3L1208-03RE1)</u>												
<u>EPA 335.4</u>												
Total Cyanide	0.300	0.00500	0.00500	mg/L	1	0.250	0.0469	101	90-110%	---	---	
Matrix Spike (23L0902-MS2)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 13:36									
<u>QC Source Sample: Non-SDG (A3L1275-02)</u>												
<u>EPA 335.4</u>												
Total Cyanide	0.295	0.00500	0.00500	mg/L	1	0.250	0.0431	101	90-110%	---	---	
Matrix Spike Dup (23L0902-MSD2)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 13:38									
<u>QC Source Sample: Non-SDG (A3L1275-02)</u>												
Total Cyanide	0.301	0.00500	0.00500	mg/L	1	0.250	0.0431	103	90-110%	2	10%	

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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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845****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 23L0536 - Method Prep: Aq						Water						
Blank (23L0536-BLK1)			Prepared: 12/14/23 11:03 Analyzed: 12/14/23 13:31									
D6888-09												
Available Cyanide	ND	0.00200	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23L0536-BS1)			Prepared: 12/14/23 11:03 Analyzed: 12/14/23 13:32									
D6888-09												
Available Cyanide	0.0231	0.00200	0.00200	mg/L	1	0.0250	---	92	90-117%	---	---	
Matrix Spike (23L0536-MS1)			Prepared: 12/14/23 11:03 Analyzed: 12/14/23 13:37									
QC Source Sample: Non-SDG (A3L1061-01)												
D6888-09												
Available Cyanide	0.0199	0.00201	0.00201	mg/L	1	0.0251	ND	79	82-130%	---	---	Q-01
Matrix Spike Dup (23L0536-MSD1)			Prepared: 12/14/23 11:03 Analyzed: 12/14/23 13:38									
QC Source Sample: Non-SDG (A3L1061-01)												
Available Cyanide	0.0210	0.00201	0.00201	mg/L	1	0.0251	ND	83	82-130%	5	11%	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

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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 23L0709 - Microdiffusion						Water						
Blank (23L0709-BLK1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:29							
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23L0709-BS1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:29							
<u>D4282-02</u>												
Free Cyanide	0.0645	0.00250	0.00500	mg/L	1	0.0667	---	97	74-120%	---	---	
LCS Dup (23L0709-BSD1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:35							
<u>D4282-02</u>												
Free Cyanide	0.0638	0.00250	0.00500	mg/L	1	0.0667	---	96	74-120%	1	20%	
Matrix Spike (23L0709-MS1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:53							
<u>QC Source Sample: Non-SDG (A3L1275-02)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0654	0.00250	0.00500	mg/L	1	0.0667	ND	98	74-120%	---	---	
Matrix Spike Dup (23L0709-MSD1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:53							
<u>QC Source Sample: Non-SDG (A3L1275-02)</u>												
Free Cyanide	0.0645	0.00250	0.00500	mg/L	1	0.0667	ND	97	74-120%	1	20%	

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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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0944							
A3L1208-01	WG	NWTPH-Dx	12/12/23 10:10	12/26/23 06:03	1000mL/5mL	1000mL/5mL	1.00
A3L1208-02	WG	NWTPH-Dx	12/12/23 10:20	12/26/23 06:03	1020mL/5mL	1000mL/5mL	0.98
A3L1208-03	WG	NWTPH-Dx	12/12/23 11:45	12/26/23 06:03	1040mL/5mL	1000mL/5mL	0.96
A3L1208-04	WG	NWTPH-Dx	12/12/23 11:50	12/26/23 06:03	1040mL/5mL	1000mL/5mL	0.96
A3L1208-05	WG	NWTPH-Dx	12/12/23 12:15	12/26/23 06:03	1020mL/5mL	1000mL/5mL	0.98
A3L1208-06	WG	NWTPH-Dx	12/12/23 14:45	12/26/23 06:03	1040mL/5mL	1000mL/5mL	0.96
A3L1208-07	WG	NWTPH-Dx	12/12/23 15:10	12/26/23 06:03	1020mL/5mL	1000mL/5mL	0.98

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

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0633							
A3L1208-01	WG	NWTPH-Gx (MS)	12/12/23 10:10	12/16/23 11:54	5mL/5mL	5mL/5mL	1.00
A3L1208-05	WG	NWTPH-Gx (MS)	12/12/23 12:15	12/16/23 11:54	5mL/5mL	5mL/5mL	1.00
A3L1208-06	WG	NWTPH-Gx (MS)	12/12/23 14:45	12/16/23 11:54	5mL/5mL	5mL/5mL	1.00
Batch: 23L0661							
A3L1208-02RE1	WG	NWTPH-Gx (MS)	12/12/23 10:20	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00
A3L1208-03RE1	WG	NWTPH-Gx (MS)	12/12/23 11:45	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00
A3L1208-04RE1	WG	NWTPH-Gx (MS)	12/12/23 11:50	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00
A3L1208-07RE1	WG	NWTPH-Gx (MS)	12/12/23 15:10	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0633							
A3L1208-01	WG	EPA 8260D	12/12/23 10:10	12/16/23 11:54	5mL/5mL	5mL/5mL	1.00
A3L1208-05	WG	EPA 8260D	12/12/23 12:15	12/16/23 11:54	5mL/5mL	5mL/5mL	1.00
A3L1208-06	WG	EPA 8260D	12/12/23 14:45	12/16/23 11:54	5mL/5mL	5mL/5mL	1.00
A3L1208-08	W	EPA 8260D	12/12/23 15:30	12/16/23 11:54	5mL/5mL	5mL/5mL	1.00
Batch: 23L0661							
A3L1208-01RE1	WG	EPA 8260D	12/12/23 10:10	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00
A3L1208-02RE1	WG	EPA 8260D	12/12/23 10:20	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00
A3L1208-03RE1	WG	EPA 8260D	12/12/23 11:45	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845**

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
A3L1208-04RE1	WG	EPA 8260D	12/12/23 11:50	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00
A3L1208-07RE1	WG	EPA 8260D	12/12/23 15:10	12/18/23 10:15	5mL/5mL	5mL/5mL	1.00
<u>Batch: 23L0777</u>							
A3L1208-03RE2	WG	EPA 8260D	12/12/23 11:45	12/20/23 08:53	5mL/5mL	5mL/5mL	1.00
A3L1208-04RE2	WG	EPA 8260D	12/12/23 11:50	12/20/23 08:53	5mL/5mL	5mL/5mL	1.00
A3L1208-07RE2	WG	EPA 8260D	12/12/23 15:10	12/20/23 08:53	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D SIM

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23L0756</u>							
A3L1208-02	WG	EPA 8260D SIM	12/12/23 10:20	12/19/23 15:18	5mL/5mL	5mL/5mL	1.00
A3L1208-03	WG	EPA 8260D SIM	12/12/23 11:45	12/19/23 15:18	5mL/5mL	5mL/5mL	1.00
A3L1208-04	WG	EPA 8260D SIM	12/12/23 11:50	12/19/23 15:18	5mL/5mL	5mL/5mL	1.00

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

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23L0581</u>							
A3L1208-01	WG	EPA 8270E LVI	12/12/23 10:10	12/15/23 08:38	100.79mL/5mL	125mL/5mL	1.24
A3L1208-01RE1	WG	EPA 8270E LVI	12/12/23 10:10	12/15/23 08:38	100.79mL/5mL	125mL/5mL	1.24
A3L1208-02	WG	EPA 8270E LVI	12/12/23 10:20	12/15/23 08:38	103.39mL/5mL	125mL/5mL	1.21
A3L1208-02RE1	WG	EPA 8270E LVI	12/12/23 10:20	12/15/23 08:38	103.39mL/5mL	125mL/5mL	1.21
A3L1208-03	WG	EPA 8270E LVI	12/12/23 11:45	12/15/23 08:38	108mL/5mL	125mL/5mL	1.16
A3L1208-04	WG	EPA 8270E LVI	12/12/23 11:50	12/15/23 08:38	114.77mL/5mL	125mL/5mL	1.09
A3L1208-05	WG	EPA 8270E LVI	12/12/23 12:15	12/15/23 08:38	103.59mL/5mL	125mL/5mL	1.21
A3L1208-06RE1	WG	EPA 8270E LVI	12/12/23 14:45	12/15/23 08:38	123.44mL/5mL	125mL/5mL	1.01
A3L1208-07	WG	EPA 8270E LVI	12/12/23 15:10	12/15/23 08:38	99.66mL/5mL	125mL/5mL	1.25

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23L1050</u>							
A3L1208-01	WG	EPA 6020B	12/12/23 10:10	12/28/23 10:14	45mL/50mL	45mL/50mL	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 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1208 - 03 06 24 0845****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
A3L1208-01RE1	WG	EPA 6020B	12/12/23 10:10	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-02	WG	EPA 6020B	12/12/23 10:20	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-02RE1	WG	EPA 6020B	12/12/23 10:20	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-03	WG	EPA 6020B	12/12/23 11:45	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-03RE1	WG	EPA 6020B	12/12/23 11:45	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-04	WG	EPA 6020B	12/12/23 11:50	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-04RE1	WG	EPA 6020B	12/12/23 11:50	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-05	WG	EPA 6020B	12/12/23 12:15	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-05RE1	WG	EPA 6020B	12/12/23 12:15	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-06	WG	EPA 6020B	12/12/23 14:45	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-06RE1	WG	EPA 6020B	12/12/23 14:45	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-07	WG	EPA 6020B	12/12/23 15:10	12/28/23 10:14	45mL/50mL	45mL/50mL	1.00
A3L1208-07RE1	WG	EPA 6020B	12/12/23 15:10	12/28/23 10:14	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: 23L0902							
A3L1208-01RE1	WG	EPA 335.4	12/12/23 10:10	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1208-02RE1	WG	EPA 335.4	12/12/23 10:20	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1208-03RE1	WG	EPA 335.4	12/12/23 11:45	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1208-04RE1	WG	EPA 335.4	12/12/23 11:50	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1208-05	WG	EPA 335.4	12/12/23 12:15	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1208-06	WG	EPA 335.4	12/12/23 14:45	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1208-07	WG	EPA 335.4	12/12/23 15:10	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0536							
A3L1208-01	WG	D6888-09	12/12/23 10:10	12/14/23 11:03	5mL/5mL	5mL/5mL	1.00
A3L1208-02	WG	D6888-09	12/12/23 10:20	12/14/23 11:03	5mL/5mL	5mL/5mL	1.00
A3L1208-03	WG	D6888-09	12/12/23 11:45	12/14/23 11:03	5mL/5mL	5mL/5mL	1.00
A3L1208-04	WG	D6888-09	12/12/23 11:50	12/14/23 11:03	5mL/5mL	5mL/5mL	1.00
A3L1208-05	WG	D6888-09	12/12/23 12:15	12/14/23 11:03	5mL/5mL	5mL/5mL	1.00

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ANALYTICAL REPORT

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Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**

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

Project Manager: **John Renda**

Report ID:

A3L1208 - 03 06 24 0845

SAMPLE PREPARATION INFORMATION

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
A3L1208-06	WG	D6888-09	12/12/23 14:45	12/14/23 11:03	5mL/5mL	5mL/5mL	1.00
A3L1208-07	WG	D6888-09	12/12/23 15:10	12/14/23 11:03	5mL/5mL	5mL/5mL	1.00

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Prep: Microdiffusion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23L0709</u>							
A3L1208-01	WG	D4282-02	12/12/23 10:10	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1208-02	WG	D4282-02	12/12/23 10:20	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1208-03	WG	D4282-02	12/12/23 11:45	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1208-04	WG	D4282-02	12/12/23 11:50	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1208-05	WG	D4282-02	12/12/23 12:15	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1208-06	WG	D4282-02	12/12/23 14:45	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1208-07	WG	D4282-02	12/12/23 15:10	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- DCNT** Sample decanted due to the presence of sediment. Sample bottle not rinsed with solvent.
- E** Estimated Value. The result is above the calibration range of the instrument.
- F-12** The result for this hydrocarbon range is primarily due to the presence of individual analyte peaks in the quantitation range. No fuel pattern detected.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- F-20** Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-04** Due to matrix interference, this analyte cannot be accurately quantified. The reported result may contain a high bias.
- 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-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-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 +9%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -16%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -17%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -3%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -5%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -8%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

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- Q-65** Spike recovery is estimated due to the high analyte concentration of the source sample.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- V-25** SIM Analysis was not performed due to the high analyte concentration in this sample.

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

Project Manager: **John Renda**

Report ID:

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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.

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).

Apex Laboratories

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**

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

Project Manager: **John Renda**

Report ID:

A3L1208 - 03 06 24 0845

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

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

Apex Laboratories

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

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APEX LABS 6700 SW Sandburg St., Tigard, OR 97223 PH: 503-718-2323		CHAIN OF CUSTODY		Lab # <u>13288</u> coc 1 of 1	
Company: <u>Anchor QEA</u>		Project Mgr: <u>John Renda</u>		Project Name: <u>Gasco-MGP Only Mon. Wells 4Q 2023 Perf. Mon.</u>	
Address: <u>6720 S. Macadam Av. #300 Portland, OR</u>		Phone: <u>503-670-1108</u>		Email: <u>renda@anchorage.com</u>	
Sampled by: <u>Montgomery/Dudenhofer</u>		Project #: <u>000029-02.84</u>		T-01.001E	
Site Location: <u>State OR County Mult</u>		PO # <u>---</u>			
ANALYSIS REQUEST					
DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX
12/12/23	10:10	105	12	X	X
12/12/23	10:20	105	12	X	X
12/12/23	11:45	105	12	X	X
12/12/23	11:50	105	12	X	X
12/12/23	12:15	105	12	X	X
12/12/23	14:45	105	12	X	X
12/12/23	15:10	105	12	X	X
12/12/23	15:30	105	1	X	X
SPECIAL INSTRUCTIONS:					
Standard Turn Around Time: <u>4447</u> - 10 Business Days					
TAT Requested (circle) 1 Day 2 Day 3 Day 5 Day <u>Standard</u> Other: _____					
SAMPLES ARE HELD FOR 30 DAYS					
RELINQUISHED BY:		RECEIVED BY:		RECEIVED BY:	
Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Signature: _____	
Date: <u>12/13/23</u>		Date: <u>12/13/23</u>		Date: _____	
Printed Name: <u>Cathy Montgomery</u>		Printed Name: <u>RKUMOROV</u>		Printed Name: _____	
Time: <u>07:55</u>		Time: <u>07:55</u>		Time: _____	
Company: <u>Anchor QEA</u>		Company: <u>APEX</u>		Company: _____	
Form Y-002 R-00					

Apex Laboratories

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ANALYTICAL REPORT

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Tigard, OR 97223

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1208 - 03 06 24 0845

APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A3 L1208Project/Project #: Gasco - MGP only Mon. Wells 4Q 2023 Perf Mon

Delivery Info:

Date/time received: 12/13/23 @ 0755 By: JSDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 12/13/23 @ 0855 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>0.4</u>	<u>1.4</u>					
Custody seals? (Y/N)	<u>N</u>	<u>→</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>→</u>					
Temp. blanks? (Y/N)	<u>Y</u>	<u>→</u>					
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>→</u>					
Condition (In/Out):	<u>In</u>	<u>→</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: 12/13/23 @ 1340 By: JSAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments:COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐ pH ID: A231172Comments: -02, -03, -07 pH 7 - NaOH Polymer A22F359Additional information: TB# 3441

Labeled by:

JS

Witness:

KAM

Cooler Inspected by:

JS

Form Y-003 R-01

Apex Laboratories

Darwin Thomas

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Darwin Thomas, Business Development Director

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