

Groundwater Sampling Report

Armstrong Energy Corporation – West Pearl Queen Site
Unit B of Section 32, Township 19 South, Range 35 East, NMPM NMOCD
Reference: NOY1816446096

Submitted August 29, 2025 to the New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division on Behalf of:

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1 Introduction

Atkins Engineering Associates, Inc. (AEA), on behalf of Armstrong Energy Corporation, is pleased to provide this Groundwater Monitoring Report for the Armstrong Energy Corporation West Pearl Queen Site (WPQ), located in the NE/4NW/4NE/4 Section 32, Township 19 South, Range 35 East, NMPM, in Lea County New Mexico. The site is located at approximately 32.62295554°N, -103.4757431°E, at a general altitude of 3,736 feet above mean sea level, as shown on the USGS Topographic map.

1.1 Scope of Work

On July 2, 2024, AEA submitted a workplan to the New Mexico Energy, Minerals and Natural Resources Department - Oil Conservation Division (NMOCD) for activities preceding the design of a full Stage 1 Abatement Plan (reference number NOY1816446096). The following is a summary of the workplan activities completed by AEA at the site to date:

- August 2024, groundwater monitoring of existing wells, SB-02, SB-04, SB-05, SB-07, SB-13, SB-14, and SB-20 through SB-23.
- October-November 2024, plug and abandonment of eight (8) wells, SB-04, SB-05, SB-07, SB-13, and SB-20 through SB-23. Additionally, existing temporary wells SB-02 and SB-14 were recompleted as permanent groundwater monitoring wells (renumbered MW-2 and MW-14)
- February 2025, installation of three (3) monitor wells, MW-5R, MW-7R, and MW-24.
- Details of the well plugging and well installation are in AEA's report dated April 10, 2025.

This report details the May 2025 groundwater sampling event as proposed in the July 2, 2024 workplan submitted to the NMOCD. The groundwater monitoring event was to consist of obtaining water levels and sampling five (5) wells, MW-2, MW-5R, MW-7R, MW-14, and MW-24 for analysis of chlorides by EPA Method 300.1 and volatile organic compounds (VOC) by EPA Method 8260B.

1.2 Deviations from the Approved Work

Monitor well MW-2 was dry and unable to be sampled. There were no other deviations from the approved scope of work.

2 Groundwater Monitoring Event Activities

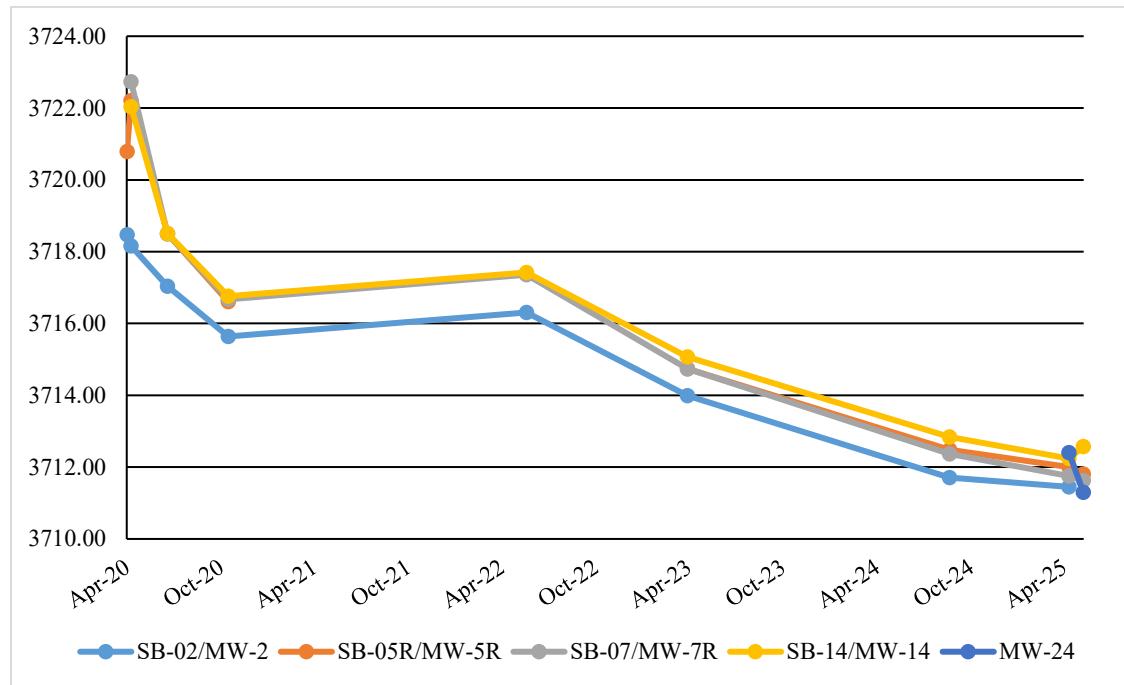
The following section describes the groundwater monitor wells sampling fieldwork.

2.1 Groundwater Elevation Measurements

On April 17 and May 15, 2025, water levels and height of well fluid columns were measured using a decontaminated interface probe in wells MW-2, MW-5R, MW-7R, MW-14, and MW-24. Measuring points for each well were the top of casing (TOC), north edge. The measured depths to water ranged from 25.00 feet below the top of casing (BTC) in well MW-24 to 26.42 ft-BTC in well MW-5R.

TOC elevations were established in March 2025 and are presented in Table A1, Appendix A, along with historic depth to water and groundwater elevations to present. A Hydrograph, Figure 1, was created utilizing historic depth to water data.

Figure 1: Hydrograph (ft AMSL)



The historical and latest data for water level elevations indicate an overall average decrease of 0.27 feet when compared to the August 2024 data. From the initial water level data obtained during April 2020 through August 2024, water levels have declined by an average of 8.29 feet.

A potentiometric surface map (Figure A1) illustrates the water table elevations at the site. The general groundwater flow direction is to the south-southwest, with an estimated gradient of approximately 0.020 ft/ft, based on wells MW-24 and MW-7R.

2.2 Groundwater Sampling Activities

On May 15, 2025, wells MW-5R, MW-7R, MW-14, and MW-24 were purged by removing at least three (3) well volumes using new 2-inch disposable bailers. If sufficient water was present and no NAPL or sheen was evident, water quality parameters were monitored using a submersible YSI

probe. Parameters were recorded after each purged well volume and at the time of sampling. All purged water was disposed of within the property boundaries. Well MW-14 bailed dry and was sampled after recharge.

During this event, conductivity measurements ranged from 2,442 $\mu\text{S}/\text{cm}$ to 43,657 $\mu\text{S}/\text{cm}$; pH measurements were recorded between 6.91 and 7.97; dissolved oxygen (DO) between 0.84 mg/L and 1.95 mg/L; and oxidation/reduction potential (ORP) between -70.9 and 27.8 mV. Parameters recorded at the time of sampling are shown on Table A2. Field datasheets are provided in Appendix B.

Following purging, groundwater samples were collected using 2-inch disposable bailers. To minimize volatilization and ensure sample integrity, new dedicated, disposable, polyethylene bottom-emptying devices were used to transfer groundwater samples from the bailers to laboratory-provided containers. The samples were immediately labeled and placed in a cooler on ice. A trip blank accompanied the samples to the field, and a duplicate sample was obtained from well MW-7R and labeled Duplicate 1.

On May 15, 2025, the groundwater samples, duplicate sample and trip blank were packaged and placed into a laboratory-supplied cooler with ice, sealed, and delivered under Chain of Custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico. The groundwater samples were analyzed for the full range of VOCs using EPA Method 8260B and chlorides by EPA Method 300.0.

3 Groundwater Analytical Results

The following section details the groundwater sampling results.

3.1 Laboratory and Field Quality Control

Groundwater samples were received by Envirotech within temperature and hold specifications. Trip blank and the duplicate sample results were consistent; AEA has no concerns as to the quality of the analytical results.

3.1.1 EPA Method 8260B and 300.0

During this event, three (3) wells had detectable concentrations of VOCs, with two (2) detections exceeding New Mexico Water Quality Control Commission (NMWQCC) standards. Table 1 below summarizes the VOC and chloride analytical results.

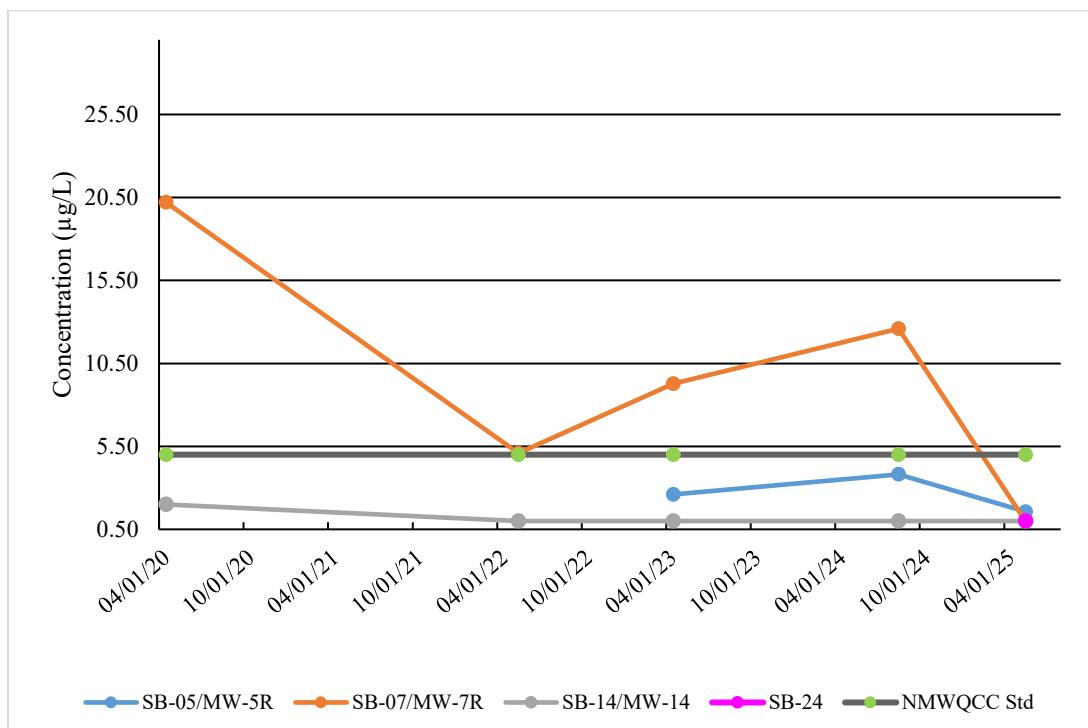
Table 1. May 2025 Analytical Results Summary

Well ID	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	Methylene Chloride ($\mu\text{g/L}$)	Chlorides (mg/L)
MW-5R	1.57	<1.00	<1.00	<1.00	<2.00	10,600
MW-7R	<1.00	<1.00	<1.00	<1.00	<2.00	320
MW-14	<1.00	<1.00	<1.00	<1.00	9.01	7,850
MW-24	<1.00	<1.00	<1.00	<1.00	26.3	19,100

1. Concentrations exceeding NMWQCC standards indicated by red text.

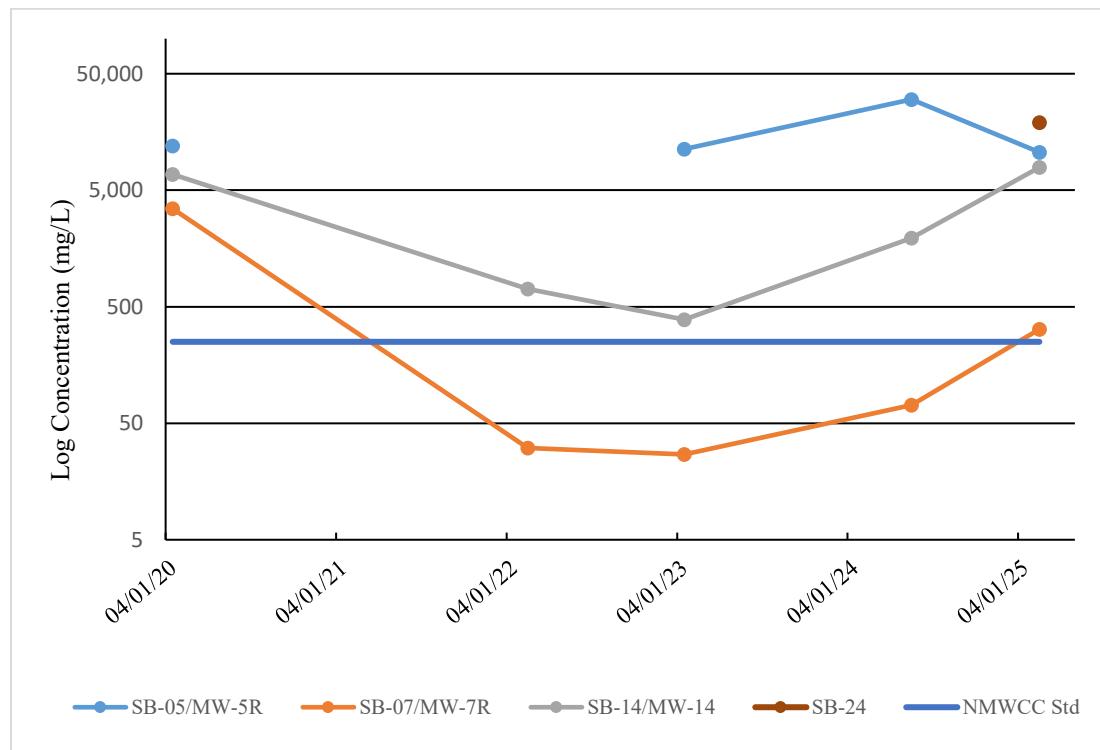
Benzene was detected in MW-5R by the laboratory method, with a concentration below the 5.0 $\mu\text{g/L}$ NMWQCC. Toluene, ethylbenzene, and total xylenes were not detectable by the analytical methods employed. Methylene chloride was detected above the NMWQCC standard of 5.0 $\mu\text{g/L}$ in wells MW-14 and MW-24. Historically methylene chloride has been detected in concentrations exceeding the standard in wells with significantly elevated chloride concentrations.

Figure 2 illustrates historical benzene data obtained from older site wells, alongside the most recent data collected from new wells MW-5R, MW-7R, and MW-24, relative to the NMWQCC standard. Non-detect concentrations are graphed with the laboratory RL value.

Figure 1: Benzene Concentration Versus Time

Chloride concentrations exceeded the NMWQCC standard of 250 mg/L for all samples. While chloride concentrations exceeding the standard are not unusual, three (3) of the reported concentrations were more than 30 times the standard with values ranging from 7,850 mg/L (MW-14) to 19,100 mg/L (MW-24). Figure 3 presents historical and recent chlorides concentrations for wells MW-5R, MW-7R, and MW-24.

Figure 2: Logarithmic Chloride Concentration Versus Time



Historic groundwater analytical results have been tabulated for certain contaminants of concern, see Table A3. Figure A2 shows the chloride and methylene chloride detections from this event. Laboratory datasheets and chain of custody documentation are attached in Appendix C.

4 Trends, Conclusions and Recommendations

The following sections discuss site trends, conclusions, and recommendations.

4.1 Trends or Changes in Site Conditions

During this sampling event the following trends or changes were noted:

- Groundwater elevations fell by an average of 0.27 feet when compared to the August 2024 data.
- Between April 2020 and August 2024, there was an overall average decline of 5.84 feet.
- Downgradient well MW-2 was dry and could not be sampled.

- Well MW-5R reported a detectable concentration of benzene at 1.57 µg/L.
- Wells MW-14 and MW-24 reported methylene concentrations exceeding the NMWQCC standard of 5.0 µg/L. Historically methylene chloride concentrations exceeding the standard have been found in conjunction with wells significantly high chloride concentrations.
- Chloride concentrations were exceeded in all of the wells; however, wells MW-5R, MW-14 and MW-24 reported concentration that were greater than 30 times the standard.

4.2 Conclusions

Groundwater sampling was conducted on four of the five site wells. Monitor well MW-2 was not sampled due to an inadequate water column. Laboratory analytical results indicated elevated concentrations of chlorides in the northern section of the site, with measurements of 19,100 mg/L in MW-24 and 10,600 mg/L in MW-5R. Methylene Chloride was detected in concentrations above the reporting limit of 5.0 µg/L in wells MW-14 and MW-24. Benzene, toluene, ethylbenzene, and xylene (BTEX) were not detected above the laboratory reporting limits.

From the initial water level data obtained in April 2020 through August 2024, water levels have declined by an average of 8.29 feet. There is not a significant amount of localized pumping as evidenced by the lack of surrounding permitted wells including livestock wells which would be anticipated if a local aquifer were present. AEA believes the water at this site to be artificial and that there is minimal migration as supported by down-gradient well, MW-2, which has been consistently declining and was dry this event.

AEA recommends a meeting to determine the next steps.

Appendix A: Tables and Figures

Table A1: Groundwater Elevation (ft)

West Pearl Queen Site, Unit B of Section 32, Township 19 South, Range 35 East, NMPM

NMOSE Well POD Number	Well ID	Date	Top Casing Elevation	Total Depth	Depth To Water	Water Level Elevation	▲WLE	Overall ▲WLE	Water Column Length
SB-02		04/08/20	3736.29	--	17.82	3718.47	--	--	--
SB-02		04/16/20	3736.29	--	18.13	3718.16	-0.31	--	--
SB-02		06/26/20	3736.29	--	19.25	3717.04	-1.12	--	--
SB-02		10/22/20	3736.29	--	20.65	3715.64	-1.40	--	--
SB-02		05/26/22	3736.29	25.37	19.98	3716.31	0.67	--	5.39
SB-02		04/05/23	3736.29	25.52	22.30	3713.99	-2.32		3.22
SB-02		08/27/24	3736.29	25.33	24.58	3711.71	-2.28	-6.76	0.75
L-14876 POD-2	MW-2	04/17/25	3739.31	28.45	27.86	3711.45	-2.54	-7.02	0.59
L-14876 POD-2	MW-2	05/15/25	3739.31	28.50	Dry	--	--	--	--
SB-04		04/08/20	3734.71	--	16.85	3717.86	--	--	--
SB-04		06/26/20	3734.71	--	16.30	3718.41	0.55	--	--
SB-04		10/22/20	3734.71	--	18.09	3716.62	-1.79	--	--
SB-04		05/26/22	3734.71	21.90	17.40	3717.31	0.69	--	4.50
SB-04		04/05/23	3734.71	22.40	19.91	3714.80	-2.51	-3.06	2.49
SB-04		08/27/24	3734.71	22.27	21.68	3713.03	-1.77	-4.83	0.59
SB-04		Plugged 10/08/2024							
SB-05		04/08/20	3736.17	--	15.38	3720.79	--	--	--
SB-05		04/16/20	3736.17	--	13.96	3722.21	1.42	--	--
SB-05		06/26/20	3736.17	--	17.67	3718.50	-3.71	--	--
SB-05		10/22/20	3736.17	--	19.56	3716.61	-1.89	--	--
SB-05		05/26/22	3736.17	11.20	Dry	--	--	--	--
SB-05		04/05/23	3736.17	26.64	21.43	3714.74	--	--	5.21
SB-05		08/27/24	3736.17	26.52	23.69	3712.48	-2.26	-8.31	2.83
SB-05		Plugged 10/08 -1/11/2024							
L-15833 POD-1	MW-5R	04/17/25	3738.23	28.65	26.23	3712.00	--	--	--
L-15833 POD-1	MW-5R	05/15/25	3738.23	28.70	26.42	3711.81	--	-0.19	2.28
SB-07		04/16/20	3732.36	--	9.63	3722.73	--	--	--

Table A1: Groundwater Elevation (ft)

West Pearl Queen Site, Unit B of Section 32, Township 19 South, Range 35 East, NMPM

NMOSE Well POD Number	Well ID	Date	Top Casing Elevation	Total Depth	Depth To Water	Water Level Elevation	▲WLE	Overall ▲WLE	Water Column Length
SB-07		06/26/20	3732.36	--	13.86	3718.50	-4.23	--	--
SB-07		10/22/20	3732.36	--	15.69	3716.67	-1.83	--	--
SB-07		05/26/22	3732.36	19.10	15.00	3717.36	0.69	--	4.10
SB-07		04/05/23	3732.36	19.20	17.62	3714.74	-2.62		1.58
SB-07		08/27/24	3732.36	22.13	19.99	3712.37	-2.37	-10.36	2.14
SB-07		Plugged 10/08/2024							
L-15833 POD-2	MW-7R	04/17/25	3737.98	27.84	26.23	3711.75	--	--	--
L-15833 POD-2	MW-7R	05/15/25	3737.98	27.90	26.35	3711.63	--	-0.12	1.55
SB-13		04/16/20	3737.91	--	15.57	3722.34	--	--	--
SB-13		06/26/20	3737.91	--	20.15	3717.76	-4.58	--	--
SB-13		10/22/20	3737.91	--	21.82	3716.09	-1.67	--	--
SB-13		05/26/22	3737.91	27.10	21.05	3716.86	0.77	--	6.05
SB-13		04/05/23	3737.91	27.20	23.62	3714.29	-2.57	--	3.58
SB-13		08/27/24	3737.91	27.03	25.88	3712.03	-2.26	-10.31	1.15
SB-13		Plugged 10/08/2024							
SB-14		04/16/20	3738.27	--	16.23	3722.04	--	--	--
SB-14		06/26/22	3738.27	--	19.76	3718.51	-3.53	--	--
SB-14		10/22/22	3738.27	--	21.51	3716.76	-1.75	--	--
SB-14		05/26/22	3738.27	27.07	20.85	3717.42	0.66	--	6.22
SB-14		04/05/23	3738.27	27.00	23.20	3715.07	-2.35	--	3.80
SB-14		08/27/24	3738.27	27.05	25.43	3712.84	-2.23	-9.20	1.62
L-14876 POD-14	MW-14	04/17/25	3738.27	27.03	26.03	3712.24	-0.60	-9.80	1.00
L-14876 POD-14	MW-14	05/15/25	3738.27	27.06	25.70	3712.57	0.33	-9.47	1.36
SB-20		05/26/22	3741.11	60.20	24.70	3716.41	--	--	--
SB-20		04/05/23	3741.11	60.25	25.90	3715.21	-1.20	--	--
SB-20		08/27/24	3741.11	60.22	27.23	3713.88	-1.33	-2.53	32.99
SB-20		Plugged 10/08 -1/11/2024							

Table A1: Groundwater Elevation (ft)

West Pearl Queen Site, Unit B of Section 32, Township 19 South, Range 35 East, NMPM

NMOSE Well POD Number	Well ID	Date	Top Casing Elevation	Total Depth	Depth To Water	Water Level Elevation	▲WLE	Overall ▲WLE	Water Column Length
SB-21		05/26/22	3737.92	60.20	30.02	3707.90	--	--	--
SB-21		04/05/23	3737.92	60.20	30.20	3707.72	-0.18		
SB-21		08/27/24	3737.92	60.18	31.02	3706.90	-0.82	-1.00	29.16
SB-21 Plugged 10/08 -1/11/2024									
SB-22		05/26/22	3740.48	60.18	29.08	3711.40	--	--	--
SB-22		04/05/23	3740.48	60.30	29.43	3711.05	-0.35	--	--
SB-22		08/27/24	3740.48	41.15	31.12	3709.36	-2.04	-2.04	10.03
SB-22 Plugged 10/08 -1/11/2024									
SB-23		05/26/22	3736.30	61.25	23.96	3712.34	--	--	--
SB-23		04/05/23	3736.30	61.20	25.40	3710.90	-1.44	--	--
SB-23		08/27/24	3736.30	61.15	27.24	3709.06	-1.84	-3.28	33.91
SB-23 Plugged 10/08 -1/11/2024									
L-15833 POD-3	MW-24	04/17/25	3738.25	28.80	25.85	3712.40	--	--	--
L-15833 POD-3	MW-24	05/15/25	3738.25	28.95	25.00	3713.25	--	0.85	3.95

Notes:

1. Average change in groundwater elevation compared to 2024 measurements: 0.33 feet.

Table A2: Groundwater Field Parameters

West Pearl Queen Site, Unit B of Section 32, Township 19 South, Range 35 East, NMPM

NMOSE Well POD Number	Well ID	Date	pH	Temperature (C°)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
SB-02		08/27/24		NM - Not enough water			
SB-2		04/17/25		NM - Not enough water			
L-14876 POD-02	MW-2	05/15/25	NM - Dry well				
SB-04		08/27/24		NM - Not enough water			
SB-04				Plugged 10/08/2024			
SB-05		08/27/24		NM - Well dewatered before stabilization occurred			
SB-05				Plugged 10/08 -1/11/2024			
L-15833 POD-1	MW-5R	04/17/25	7.30	20.0	22,783	0.53	81.6
L-15833 POD-1	MW-5R	05/15/25	7.08	18.2	25,760	1.95	-70.9
SB-07		08/27/24		NM - Well dewatered before stabilization occurred; hydrocarbon odor			
SB-07				Plugged 10/08/2024			
L-15833 POD-2	MW-7R	04/17/25	7.99	19.2	2,277	0.61	-35.9
L-15833 POD-2	MW-7R	05/15/25	7.97	17.9	2,442	0.84	-59.0
SB-13		08/27/24		NM - Not enough water			
SB-13				Plugged 10/08/2024			
SB-14		08/27/24		NM - Well dewatered before stabilization occurred			
L-14876 POD-14	MW-14	04/17/25	7.50	19.4		6,540	0.83
L-14876 POD-14	MW-14	05/15/25	NM - Insufficient water column				-32.6
SB-20		08/27/24	9.30	19.9	11,632	0.08	-157.10
SB-20				Plugged 10/08 -1/11/2024			
SB-21		08/27/24	9.56	20.4	78,780	0.08	162.0
SB-21				Plugged 10/08 -1/11/2024			
SB-22		08/27/24	8.81	21.2	112,071	0.07	110.9
SB-22				Plugged 10/08 -1/11/2024			
SB-23		08/27/24	10.21	22.0	25,205	0.09	162.3
SB-23				Plugged 10/08 -1/11/2024			
L-15833 POD-3	MW-24	04/17/25	7.00	19.7	46,826	0.48	-31.2
L-15833 POD-3	MW-24	05/15/25	6.91	18.0	43,657	1.51	27.8

Table A2: Groundwater Field Parameters

West Pearl Queen Site, Unit B of Section 32, Township 19 South, Range 35 East, NMPPM

NMOSE Well POD Number	Well ID	Date	pH	Temperature (C°)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
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Notes:

1. NM = Not Measured

Table A3: Groundwater Analytical Results - Contaminants of Concern

West Pearl Queen Site, Unit B of Section 32, Township 19 South, Range 35 East, NMPM

NMOSE Number	Well POD	Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	Methylene Chloride (µg/L)	GRO (mg/L)	DRO (mg/L)	ORO (mg/L)	Chloride (mg/L)	Nitrates (mg/L)	Sampler	
NMWQCC Standard				5.0	1,000	700	620	5.0	100	100	100	250	10	--	
SB-02			04/16/20	<2.0	<2.0	<2.0	<2.0	--	<2.50	<2.50	<2.50	1,810	--	HRL	
SB-02			05/26/22	<1.00	<1.00	<1.00	<1.00	--	<0.100	<1.00	<2.00	112	--	AEA	
SB-02			04/05/23	<1.00	<1.00	<1.00	<1.00	<2.0	--	--	--	81.3	<5.00	AEA	
SB-02			08/27/24	NS - Insufficient water column											
L-14876 POD-02	MW-2	05/22/25	NS - Insufficient water column												
SB-04			05/26/22	<1.00	<1.00	<1.00	<1.00	--	<0.100	<1.00	<2.00	29	--	AEA	
SB-04			04/05/23	<1.00	<1.00	<1.00	<1.00	<2.0	--	--	--	86.2	<0.250	AEA	
SB-04			08/27/24	NS - Not enough water Plugged 10/08/2024											
SB-05			04/16/20	<2.00	<2.00	<2.00	<2.00	--	<2.50	<2.50	<2.50	12,000	--	HRL	
SB-05			04/05/23	2.61	<1.00	<1.00	<1.00	3.21	--	--	--	11,300	6.44	AEA	
SB-05			08/27/24	3.81	<1.00	<1.00	<1.00	6.08	--	--	--	30,100	--	AEA	
SB-05			Plugged 10/08 -1/11/2024												
L-15833 POD-1	MW-5R	05/15/25	1.57	<1.00	<1.00	<1.00	<2.00	<2.00	--	--	--	10,600	--	AEA	
SB-07			04/16/20	20.2	<2.00	14.3	9.16	--	<2.50	<2.50	<2.50	3,470	--	HRL	
SB-07			05/26/22	5.09	<1.00	8.44	<1.00	--	0.136	<1.00	<2.00	30.6	--	AEA	
SB-07			04/05/23	9.28	<1.0	5.34	<1.0	<2.0	--	--	--	27.0	<0.500	AEA	
SB-07			08/27/24	12.6	<1.00	7.47	<1.00	2.86	--	--	--	71.6	--	AEA	
SB-07			Plugged 10/08/2024												
L-15833 POD-2	MW-7R	05/15/25	<1.00	<1.00	<1.0	<1.00	<2.00	<2.00	--	--	--	320	--	AEA	
SB-13			04/16/20	25	<2.0	<2.0	<2.0	--	<2.50	<2.50	<2.50	928	--	HRL	
SB-13			05/26/22	<1.00	<1.00	<1.00	<1.00	--	<0.100	<1.00	<2.00	188	--	AEA	
SB-13			04/05/23	<1.00	<1.00	<1.00	<1.00	<2.0	--	--	--	424	<2.50	AEA	
SB-13			08/27/24	NS - Insufficient water column Plugged 10/08/2024											
SB-14			04/16/20	<2.00	<2.00	<2.00	<2.00	--	<2.50	<2.50	<2.50	6,840	--	HRL	
SB-14			05/26/22	<1.00	<1.00	<1.00	<1.00	--	<0.100	<1.00	<2.00	711	--	AEA	

Table A3: Groundwater Analytical Results - Contaminants of Concern

West Pearl Queen Site, Unit B of Section 32, Township 19 South, Range 35 East, NMPM

NMOSE Well Number	POD	Well ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl Benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	Methylene Chloride ($\mu\text{g/L}$)	GRO (mg/L)	DRO (mg/L)	ORO (mg/L)	Chloride (mg/L)	Nitrates (mg/L)	Sampler	
NMWQCC Standard				5.0	1,000	700	620	5.0	100	100	100	250	10	--	
SB-14			04/05/23	<1.00	<1.00	<1.00	<1.00	<2.0	--	--	--	388	<5.00	AEA	
SB-14			08/27/24	<1.00	<1.00	<1.00	<1.00	2.63	--	--	--	1,940	--	AEA	
L-14876 POD-14	MW-14	05/15/25	<1.00	<1.00	<1.00	<1.00	9.01	--	--	--	--	7,850	--	AEA	
SB-17			04/16/20	2.9	<2.0	5.65	13.5	--	<2.50	<2.50	<2.50	17,300	--	HRL	
SB-20			05/26/22	1.56	13.0	<1.00	<1.00	--	<0.100	<1.00	<2.00	185,000	--	AEA	
SB-20			04/05/23	<5.00	<5.00	<5.00	<5.00	187	--	--	--	61,700	<250	AEA	
SB-20			08/27/24	1.72	2.21	<1.00	<1.00	236	--	--	--	61,600	--	AEA	
SB-20				Plugged 10/08 -1/11/2024											
SB-21			05/26/22	<1.00	5.77	<1.00	<1.00	--	<0.100	<1.00	<2.00	96,800	--	AEA	
SB-21			04/05/23	<5.00	<5.00	<5.00	<5.00	56.6	--	--	--	94,400	<250	AEA	
SB-21			08/27/24	<1.00	<1.00	<1.00	<1.00	44	--	--	--	38,200	--	AEA	
SB-21				Plugged 10/08 -1/11/2024											
SB-22			05/26/22	<1.00	17.5	<1.00	<1.00	--	<0.100	<1.00	<2.00	170,000	--	AEA	
SB-22			04/05/23	<5.00	<5.00	<5.00	<5.00	254	--	--	--	124,000	<250	AEA	
SB-22			08/27/24	<1.00	<1.00	<1.00	<1.00	286	--	--	--	148,000	--	AEA	
SB-22				Plugged 10/08 -1/11/2024											
SB-23			05/26/22	<1.00	3.09	<1.00	<1.00	--	<0.100	<1.00	<2.00	76,100	--	AEA	
SB-23			04/05/23	<5.00	<5.00	<5.00	<5.00	54	--	--	--	25,700	<250	AEA	
SB-23			08/27/24	<1.00	<1.00	<1.00	<1.00	45.8	--	--	--	21,300	--	AEA	
SB-23				Plugged 10/08 -1/11/2024											
L-15833 POD-3	MW-24	05/15/25	<1.00	<1.00	<1.00	<1.00	26.3	--	--	--	--	19,100	--	AEA	

Notes

1. Water Quality Standards for BTEX listed in NMAC 20.6.2.3103, adopted by NMWQCC on August 14, 2018; amended regulations effective date December 21, 2018; groundwater standards effective date July 1, 2020
2. TPH (GRO, DRO, ORO) and Nitrates, not analysed since 2023
3. NS = Not Sampled

**Legend**

- 2025-05-15 GW Contours (1 ft)
- Uncertain Contour
- WPQ Monitor Wells

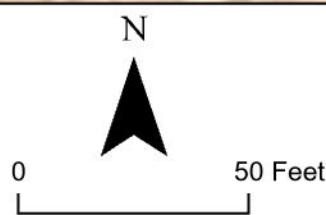


Figure A1
Site and Groundwater Elevation Map
West Pearl Queen
Unit B, S32, T19S, R35E, NMPM
NMOCD: NOY181664460946

**Legend**

● WPQ Monitor Wells

N



0 50 Feet

Figure A2
Chloride and Methylene Chloride Concentration Map
West Pearl Queen
Unit B, S32, T19S, R35E, NMPM
NMOCD: NOY181664460946

Appendix B: Field Datasheets

WELL GAUGING DATA SHEET



WELL MONITORING DATA SHEET



WELL MONITORING DATA SHEET		aecwpea.drl.24
Well I.D.	MW-5R	Job Number:
Client:	Armstrong	Date:
Project:	west Pearl Queen	Sampler:
Weather:		Time In/Out:

WELL DATA

WELL DATA				
Well Depth:	28.70	Well Diameter:	2	Water Height
Depth to Water:	20.42	Screened Interval:	---	x Multiplier
Water Column Length:	2.28	Depth to Free Product:	---	x Casing Volumes
Purge Volume:		Free Product Thickness:	---	= Purge Volume
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.1743	4-inch = 0.6613	1 gallon = 3.785 liters

PURGING DATA

Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

COMMENTS

WELL MONITORING DATA SHEET



Well I.D.	MW-7R	Job Number:	aecwpea.drl.24
Client:	Armstrong	Date:	5/15/05
Project:	West Plant Cullen	Sampler:	KA
Weather:		Time In/Out:	

WELL DATA

WELL DATA					
Well Depth:	27.90	Well Diameter:	2	Water Height	1.55
Depth to Water:	26.35	Screened Interval:	—	x Multiplier	.1743
Water Column Length:	1.55	Depth to Free Product:	—	x Casing Volumes	3 x .27
Purge Volume:		Free Product Thickness:	—	= Purge Volume	.81
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.1743	4-inch = 0.6613	1 gallon = 3.785 liters	

PURGING DATA

Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

COMMENTS

Duplicate performed on uw-TR @
1845 5/15/25

WELL MONITORING DATA SHEET



Well I.D.	MW-14	Job Number:	aecwpea.drl.24
Client:	Armstrong	Date:	5/15/25
Project:	West Paw Ocean	Sampler:	KH
Weather:		Time In/Out:	

WELL DATA

WELL DATA					
Well Depth:	27.00	Well Diameter:	2	Water Height	1.36
Depth to Water:	25.70	Screened Interval:	—	x Multiplier	1743
Water Column Length:	1.30	Depth to Free Product:	—	x Casing Volumes	3X.23
Purge Volume:		Free Product Thickness:	—	= Purge Volume	.71
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.1743	4-inch = 0.6613	1 gallon = 3.785 liters	

PURGING DATA

Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-14	Sampling Flow Rate	—	Analytical Laboratory:	Hall
Sample Time:	955	Final Depth to Water:	—	Did Well Dewater?	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD
		8260B	yes no		
		300	yes no		
			yes no		
			yes no		
			yes no		
			yes no		

COMMENTS

~~Yard Sample no XSF Water Column
too low~~

WELL MONITORING DATA SHEET



Well ID MW-24

Job Number: aecwpea.drl.24

Well I.D. MW-24
Client: Armstrong
Project: West Pearl Queen

Date:	S/AS
Sampler:	RJA

Weather:

Time In/Out:

WELL DATA

WELL DATA					
Well Depth:	26.95	Well Diameter:	2	Water Height	3.95
Depth to Water:	25.00	Screened Interval:	--	x Multiplier	1.743
Water Column Length:	3.95	Depth to Free Product:	--	x Casing Volumes	3 x .1743 = .5229
Purge Volume:		Free Product Thickness:	--	= Purge Volume	2.05
Water Height Multipliers (gal)	1 inch = 0.041	2-inch = 0.1743	4-inch = 0.6613	1 gallon = 3.785 liters	

PURGING DATA

Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-24	Sampling Flow Rate	—	Analytical Laboratory:	Hall	
Sample Time:	10/0	Final Depth to Water:	---	Did Well Dewater?		
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
		8260B	yes no			
		300	yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET



Well ID MW-24

Job Number: aecwpea.drl.24

Well I.D. MW-24
Client: Armstrong
Project: West Pearl Queen

Date:	S/AS
Sampler:	RJA

Weather:

Time In/Out:

WELL DATA

WELL DATA					
Well Depth:	26.95	Well Diameter:	2	Water Height	3.95
Depth to Water:	25.00	Screened Interval:	--	x Multiplier	1743
Water Column Length:	3.95	Depth to Free Product:	--	x Casing Volumes	3X .68
Purge Volume:		Free Product Thickness:	--	= Purge Volume	2.05
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.1743	4-inch = 0.6613	1 gallon = 3.785 liters	

PURGING DATA

Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

COMMENTS



Chain of Custody

Page _____ of _____

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by:

Sample Matrix: **S** - Soil, **Sd** - Solid, **Se** - Sludge, **A** - Aqueous, **O** - Other

[Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Container Type: g - glass, p - poly/plastic, a - aluminum
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned.
is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report

Appendix C: Envirotech Analysis Laboratory Datasheets

Report to:
Kariza



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Atkins Engineering Associates Inc.

Project Name: WPQ

Work Order: E505172

Job Number: 20071-0001

Received: 5/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/22/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 5/22/25

Kariza
2904 W. 2nd
Roswell, NM 88201



Project Name: WPQ
Workorder: E505172
Date Received: 5/16/2025 8:30:22AM

Kariza,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: WPQ.

The analytical test results summarized in this report with the Project Name: WPQ apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 05/22/25 15:49
--	--	--------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
MW-5R	E505172-01A	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-01B	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-01C	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-01D	Aqueous	05/15/25	05/16/25	Poly 125mL
MW-7R	E505172-02A	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-02B	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-02C	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-02D	Aqueous	05/15/25	05/16/25	Poly 125mL
MW-14	E505172-03A	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-03B	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-03C	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-03D	Aqueous	05/15/25	05/16/25	Poly 125mL
MW-24	E505172-04A	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-04B	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-04C	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-04D	Aqueous	05/15/25	05/16/25	Poly 125mL
Duplicate 1	E505172-05A	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-05B	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-05C	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl
	E505172-05D	Aqueous	05/15/25	05/16/25	Poly 125mL
Trip Blank	E505172-06A	Aqueous	05/15/25	05/16/25	VOA Vial, 40mL; HCl

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
--	--	----------------------------------

MW-5R

E505172-01

Analyte	Result	Reporting ug/L	Limit ug/L	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B				Analyst: BA			Batch: 2521099
Acetone	ND	20.0	1	05/21/25	05/21/25		
Benzene	1.57	1.00	1	05/21/25	05/21/25		
Bromobenzene	ND	1.00	1	05/21/25	05/21/25		
Bromochloromethane	ND	1.00	1	05/21/25	05/21/25		
Bromodichloromethane	ND	1.00	1	05/21/25	05/21/25		
Bromoform	ND	1.00	1	05/21/25	05/21/25		
Bromomethane	ND	2.00	1	05/21/25	05/21/25		
n-Butyl Benzene	ND	1.00	1	05/21/25	05/21/25		
sec-Butylbenzene	ND	1.00	1	05/21/25	05/21/25		
tert-Butylbenzene	ND	1.00	1	05/21/25	05/21/25		
Carbon Tetrachloride	ND	1.00	1	05/21/25	05/21/25		
Chlorobenzene	ND	1.00	1	05/21/25	05/21/25		
Chloroethane	ND	2.00	1	05/21/25	05/21/25		
Chloroform	ND	5.00	1	05/21/25	05/21/25		
Chloromethane	ND	2.00	1	05/21/25	05/21/25		
2-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25		
4-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25		
Dibromochloromethane	ND	1.00	1	05/21/25	05/21/25		
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	05/21/25	05/21/25		
1,2-Dibromoethane (EDB)	ND	2.00	1	05/21/25	05/21/25		
Dibromomethane	ND	1.00	1	05/21/25	05/21/25		
1,2-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25		
1,3-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25		
1,4-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25		
1,1-Dichloroethane	ND	1.00	1	05/21/25	05/21/25		
1,2-Dichloroethane	ND	1.00	1	05/21/25	05/21/25		
1,1-Dichloroethene	ND	1.00	1	05/21/25	05/21/25		
cis-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25		
trans-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25		
1,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25		
1,3-Dichloropropane	ND	1.00	1	05/21/25	05/21/25		
2,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25		
1,1-Dichloropropene	ND	1.00	1	05/21/25	05/21/25		
cis-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25		
trans-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25		
Diisopropyl Ether (DIPE)	ND	1.00	1	05/21/25	05/21/25		
Ethylbenzene	ND	1.00	1	05/21/25	05/21/25		
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	05/21/25	05/21/25		
Hexachlorobutadiene	ND	5.00	1	05/21/25	05/21/25		
2-Hexanone	ND	20.0	1	05/21/25	05/21/25		
Isopropylbenzene	ND	1.00	1	05/21/25	05/21/25		
4-Isopropyltoluene	ND	1.00	1	05/21/25	05/21/25		
2-Butanone (MEK)	ND	20.0	1	05/21/25	05/21/25		
Methylene Chloride	ND	2.00	1	05/21/25	05/21/25		
1-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25		

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
--	--	----------------------------------

MW-5R

E505172-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: BA		Batch: 2521099
2-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	05/21/25	05/21/25	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	05/21/25	05/21/25	
Naphthalene	ND	5.00	1	05/21/25	05/21/25	
n-Propyl Benzene	ND	1.00	1	05/21/25	05/21/25	
Styrene	ND	1.00	1	05/21/25	05/21/25	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	05/21/25	05/21/25	
1,1,1,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1,2,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25	
Tetrachloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2,3-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25	
1,2,4-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25	
1,1,1-Trichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1,2-Trichloroethane	ND	1.00	1	05/21/25	05/21/25	
Trichloroethene	ND	1.00	1	05/21/25	05/21/25	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	05/21/25	05/21/25	
1,2,3-Trichloropropane	ND	2.00	1	05/21/25	05/21/25	
1,2,4-Trimethylbenzene	ND	5.00	1	05/21/25	05/21/25	
1,3,5-Trimethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Toluene	ND	1.00	1	05/21/25	05/21/25	
Vinyl chloride	ND	2.00	1	05/21/25	05/21/25	
o-Xylene	ND	1.00	1	05/21/25	05/21/25	
p,m-Xylene	ND	2.00	1	05/21/25	05/21/25	
Total Xylenes	ND	1.00	1	05/21/25	05/21/25	
Surrogate: Bromofluorobenzene	101 %	70-130		05/21/25	05/21/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/21/25	05/21/25	
Surrogate: Toluene-d8	102 %	70-130		05/21/25	05/21/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-5R**E505172-01**

Analyte	Result	Reporting		Dilution	Prepared	Analyzed	Notes
		Limit					
Anions by EPA 300.0/9056A		mg/L	mg/L		Analyst: RAS		Batch: 2521054
Chloride	10600		200	100	05/20/25	05/20/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-7R

E505172-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: BA		Batch: 2521099
Acetone	ND	20.0	1	05/21/25	05/21/25	
Benzene	ND	1.00	1	05/21/25	05/21/25	
Bromobenzene	ND	1.00	1	05/21/25	05/21/25	
Bromochloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromodichloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromoform	ND	1.00	1	05/21/25	05/21/25	
Bromomethane	ND	2.00	1	05/21/25	05/21/25	
n-Butyl Benzene	ND	1.00	1	05/21/25	05/21/25	
sec-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
tert-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
Carbon Tetrachloride	ND	1.00	1	05/21/25	05/21/25	
Chlorobenzene	ND	1.00	1	05/21/25	05/21/25	
Chloroethane	ND	2.00	1	05/21/25	05/21/25	
Chloroform	ND	5.00	1	05/21/25	05/21/25	
Chloromethane	ND	2.00	1	05/21/25	05/21/25	
2-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
4-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
Dibromochloromethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	05/21/25	05/21/25	
1,2-Dibromoethane (EDB)	ND	2.00	1	05/21/25	05/21/25	
Dibromomethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,4-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
cis-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
trans-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
2,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
cis-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
trans-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
Diisopropyl Ether (DIPE)	ND	1.00	1	05/21/25	05/21/25	
Ethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	05/21/25	05/21/25	
Hexachlorobutadiene	ND	5.00	1	05/21/25	05/21/25	
2-Hexanone	ND	20.0	1	05/21/25	05/21/25	
Isopropylbenzene	ND	1.00	1	05/21/25	05/21/25	
4-Isopropyltoluene	ND	1.00	1	05/21/25	05/21/25	
2-Butanone (MEK)	ND	20.0	1	05/21/25	05/21/25	
Methylene Chloride	ND	2.00	1	05/21/25	05/21/25	
1-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
2-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	05/21/25	05/21/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-7R

E505172-02

Analyte	Result	Reporting				
		Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: BA		Batch: 2521099	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	05/21/25	05/21/25	
Naphthalene	ND	5.00	1	05/21/25	05/21/25	
n-Propyl Benzene	ND	1.00	1	05/21/25	05/21/25	
Styrene	ND	1.00	1	05/21/25	05/21/25	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	05/21/25	05/21/25	
1,1,1,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1,2,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25	
Tetrachloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2,3-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25	
1,2,4-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25	
1,1,1-Trichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1,2-Trichloroethane	ND	1.00	1	05/21/25	05/21/25	
Trichloroethene	ND	1.00	1	05/21/25	05/21/25	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	05/21/25	05/21/25	
1,2,3-Trichloropropane	ND	2.00	1	05/21/25	05/21/25	
1,2,4-Trimethylbenzene	ND	5.00	1	05/21/25	05/21/25	
1,3,5-Trimethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Toluene	ND	1.00	1	05/21/25	05/21/25	
Vinyl chloride	ND	2.00	1	05/21/25	05/21/25	
o-Xylene	ND	1.00	1	05/21/25	05/21/25	
p,m-Xylene	ND	2.00	1	05/21/25	05/21/25	
Total Xylenes	ND	1.00	1	05/21/25	05/21/25	
Surrogate: Bromofluorobenzene	102 %	70-130	05/21/25	05/21/25		
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130	05/21/25	05/21/25		
Surrogate: Toluene-d8	102 %	70-130	05/21/25	05/21/25		

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-7R**E505172-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/L	mg/L		Analyst: RAS		Batch: 2521054
Chloride	320	10.0	5	05/20/25	05/20/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-14

E505172-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: BA		Batch: 2521099
Acetone	ND	20.0	1	05/21/25	05/21/25	
Benzene	ND	1.00	1	05/21/25	05/21/25	
Bromobenzene	ND	1.00	1	05/21/25	05/21/25	
Bromochloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromodichloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromoform	ND	1.00	1	05/21/25	05/21/25	
Bromomethane	ND	2.00	1	05/21/25	05/21/25	
n-Butyl Benzene	ND	1.00	1	05/21/25	05/21/25	
sec-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
tert-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
Carbon Tetrachloride	ND	1.00	1	05/21/25	05/21/25	
Chlorobenzene	ND	1.00	1	05/21/25	05/21/25	
Chloroethane	ND	2.00	1	05/21/25	05/21/25	
Chloroform	ND	5.00	1	05/21/25	05/21/25	
Chloromethane	ND	2.00	1	05/21/25	05/21/25	
2-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
4-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
Dibromochloromethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	05/21/25	05/21/25	
1,2-Dibromoethane (EDB)	ND	2.00	1	05/21/25	05/21/25	
Dibromomethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,4-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
cis-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
trans-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
2,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
cis-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
trans-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
Diisopropyl Ether (DIPE)	ND	1.00	1	05/21/25	05/21/25	
Ethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	05/21/25	05/21/25	
Hexachlorobutadiene	ND	5.00	1	05/21/25	05/21/25	
2-Hexanone	ND	20.0	1	05/21/25	05/21/25	
Isopropylbenzene	ND	1.00	1	05/21/25	05/21/25	
4-Isopropyltoluene	ND	1.00	1	05/21/25	05/21/25	
2-Butanone (MEK)	ND	20.0	1	05/21/25	05/21/25	
Methylene Chloride	9.01	2.00	1	05/21/25	05/21/25	
1-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
2-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	05/21/25	05/21/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-14

E505172-03

Analyte	Result	Reporting				
		Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: BA			Batch: 2521099
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	05/21/25	05/21/25	
Naphthalene	ND	5.00	1	05/21/25	05/21/25	
n-Propyl Benzene	ND	1.00	1	05/21/25	05/21/25	
Styrene	ND	1.00	1	05/21/25	05/21/25	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	05/21/25	05/21/25	
1,1,1,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1,2,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25	
Tetrachloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2,3-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25	
1,2,4-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25	
1,1,1-Trichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1,2-Trichloroethane	ND	1.00	1	05/21/25	05/21/25	
Trichloroethene	ND	1.00	1	05/21/25	05/21/25	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	05/21/25	05/21/25	
1,2,3-Trichloropropane	ND	2.00	1	05/21/25	05/21/25	
1,2,4-Trimethylbenzene	ND	5.00	1	05/21/25	05/21/25	
1,3,5-Trimethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Toluene	ND	1.00	1	05/21/25	05/21/25	
Vinyl chloride	ND	2.00	1	05/21/25	05/21/25	
o-Xylene	ND	1.00	1	05/21/25	05/21/25	
p,m-Xylene	ND	2.00	1	05/21/25	05/21/25	
Total Xylenes	ND	1.00	1	05/21/25	05/21/25	
Surrogate: Bromofluorobenzene	101 %	70-130	05/21/25	05/21/25		
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	05/21/25	05/21/25		
Surrogate: Toluene-d8	102 %	70-130	05/21/25	05/21/25		

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-14**E505172-03**

Analyte	Result	Reporting		Dilution	Prepared	Analyzed	Notes
		Limit					
Anions by EPA 300.0/9056A		mg/L	mg/L		Analyst: RAS		Batch: 2521054
Chloride	7850		200	100	05/20/25	05/20/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-24

E505172-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: BA		Batch: 2521099
Acetone	ND	20.0	1	05/21/25	05/21/25	
Benzene	ND	1.00	1	05/21/25	05/21/25	
Bromobenzene	ND	1.00	1	05/21/25	05/21/25	
Bromochloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromodichloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromoform	ND	1.00	1	05/21/25	05/21/25	
Bromomethane	ND	2.00	1	05/21/25	05/21/25	
n-Butyl Benzene	ND	1.00	1	05/21/25	05/21/25	
sec-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
tert-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
Carbon Tetrachloride	ND	1.00	1	05/21/25	05/21/25	
Chlorobenzene	ND	1.00	1	05/21/25	05/21/25	
Chloroethane	ND	2.00	1	05/21/25	05/21/25	
Chloroform	ND	5.00	1	05/21/25	05/21/25	
Chloromethane	ND	2.00	1	05/21/25	05/21/25	
2-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
4-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
Dibromochloromethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	05/21/25	05/21/25	
1,2-Dibromoethane (EDB)	ND	2.00	1	05/21/25	05/21/25	
Dibromomethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,4-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
cis-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
trans-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
2,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
cis-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
trans-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
Diisopropyl Ether (DIPE)	ND	1.00	1	05/21/25	05/21/25	
Ethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	05/21/25	05/21/25	
Hexachlorobutadiene	ND	5.00	1	05/21/25	05/21/25	
2-Hexanone	ND	20.0	1	05/21/25	05/21/25	
Isopropylbenzene	ND	1.00	1	05/21/25	05/21/25	
4-Isopropyltoluene	ND	1.00	1	05/21/25	05/21/25	
2-Butanone (MEK)	ND	20.0	1	05/21/25	05/21/25	
Methylene Chloride	26.3	2.00	1	05/21/25	05/21/25	
1-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
2-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	05/21/25	05/21/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-24

E505172-04

Analyte	Result	Reporting				
		Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: BA		Batch: 2521099
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	05/21/25	05/21/25	
Naphthalene	ND	5.00	1	05/21/25	05/21/25	
n-Propyl Benzene	ND	1.00	1	05/21/25	05/21/25	
Styrene	ND	1.00	1	05/21/25	05/21/25	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	05/21/25	05/21/25	
1,1,1,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1,2,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25	
Tetrachloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2,3-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25	
1,2,4-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25	
1,1,1-Trichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1,2-Trichloroethane	ND	1.00	1	05/21/25	05/21/25	
Trichloroethene	ND	1.00	1	05/21/25	05/21/25	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	05/21/25	05/21/25	
1,2,3-Trichloropropane	ND	2.00	1	05/21/25	05/21/25	
1,2,4-Trimethylbenzene	ND	5.00	1	05/21/25	05/21/25	
1,3,5-Trimethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Toluene	ND	1.00	1	05/21/25	05/21/25	
Vinyl chloride	ND	2.00	1	05/21/25	05/21/25	
o-Xylene	ND	1.00	1	05/21/25	05/21/25	
p,m-Xylene	ND	2.00	1	05/21/25	05/21/25	
Total Xylenes	ND	1.00	1	05/21/25	05/21/25	
<i>Surrogate: Bromofluorobenzene</i>	102 %	70-130		05/21/25	05/21/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	103 %	70-130		05/21/25	05/21/25	
<i>Surrogate: Toluene-d8</i>	101 %	70-130		05/21/25	05/21/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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MW-24**E505172-04**

Analyte	Result	Reporting		Dilution	Prepared	Analyzed	Notes
		Limit					
Anions by EPA 300.0/9056A		mg/L	mg/L		Analyst: RAS		Batch: 2521054
Chloride	19100		200	100	05/20/25	05/20/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Duplicate 1

E505172-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: BA		Batch: 2521099
Acetone	ND	20.0	1	05/21/25	05/21/25	
Benzene	ND	1.00	1	05/21/25	05/21/25	
Bromobenzene	ND	1.00	1	05/21/25	05/21/25	
Bromochloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromodichloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromoform	ND	1.00	1	05/21/25	05/21/25	
Bromomethane	ND	2.00	1	05/21/25	05/21/25	
n-Butyl Benzene	ND	1.00	1	05/21/25	05/21/25	
sec-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
tert-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
Carbon Tetrachloride	ND	1.00	1	05/21/25	05/21/25	
Chlorobenzene	ND	1.00	1	05/21/25	05/21/25	
Chloroethane	ND	2.00	1	05/21/25	05/21/25	
Chloroform	ND	5.00	1	05/21/25	05/21/25	
Chloromethane	ND	2.00	1	05/21/25	05/21/25	
2-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
4-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
Dibromochloromethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	05/21/25	05/21/25	
1,2-Dibromoethane (EDB)	ND	2.00	1	05/21/25	05/21/25	
Dibromomethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,4-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
cis-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
trans-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
2,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
cis-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
trans-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
Diisopropyl Ether (DIPE)	ND	1.00	1	05/21/25	05/21/25	
Ethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	05/21/25	05/21/25	
Hexachlorobutadiene	ND	5.00	1	05/21/25	05/21/25	
2-Hexanone	ND	20.0	1	05/21/25	05/21/25	
Isopropylbenzene	ND	1.00	1	05/21/25	05/21/25	
4-Isopropyltoluene	ND	1.00	1	05/21/25	05/21/25	
2-Butanone (MEK)	ND	20.0	1	05/21/25	05/21/25	
Methylene Chloride	ND	2.00	1	05/21/25	05/21/25	
1-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
2-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	05/21/25	05/21/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Duplicate 1

E505172-05

Analyte	Result	Reporting ug/L	Limit ug/L	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B					Analyst: BA		Batch: 2521099
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	05/21/25	05/21/25		
Naphthalene	ND	5.00	1	05/21/25	05/21/25		
n-Propyl Benzene	ND	1.00	1	05/21/25	05/21/25		
Styrene	ND	1.00	1	05/21/25	05/21/25		
tert-Amyl Methyl ether (TAME)	ND	1.00	1	05/21/25	05/21/25		
1,1,1,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25		
1,1,2,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25		
Tetrachloroethene	ND	1.00	1	05/21/25	05/21/25		
1,2,3-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25		
1,2,4-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25		
1,1,1-Trichloroethane	ND	1.00	1	05/21/25	05/21/25		
1,1,2-Trichloroethane	ND	1.00	1	05/21/25	05/21/25		
Trichloroethene	ND	1.00	1	05/21/25	05/21/25		
Trichlorofluoromethane (Freon-11)	ND	2.00	1	05/21/25	05/21/25		
1,2,3-Trichloropropane	ND	2.00	1	05/21/25	05/21/25		
1,2,4-Trimethylbenzene	ND	5.00	1	05/21/25	05/21/25		
1,3,5-Trimethylbenzene	ND	1.00	1	05/21/25	05/21/25		
Toluene	ND	1.00	1	05/21/25	05/21/25		
Vinyl chloride	ND	2.00	1	05/21/25	05/21/25		
o-Xylene	ND	1.00	1	05/21/25	05/21/25		
p,m-Xylene	ND	2.00	1	05/21/25	05/21/25		
Total Xylenes	ND	1.00	1	05/21/25	05/21/25		
<i>Surrogate: Bromofluorobenzene</i>		98.5 %	70-130	05/21/25	05/21/25		
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	05/21/25	05/21/25		
<i>Surrogate: Toluene-d8</i>		99.9 %	70-130	05/21/25	05/21/25		

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Duplicate 1

E505172-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/L	mg/L		Analyst: RAS		Batch: 2521054
Chloride	335	20.0	10	05/20/25	05/20/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Trip Blank

E505172-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: BA		Batch: 2521099
Acetone	ND	20.0	1	05/21/25	05/21/25	
Benzene	ND	1.00	1	05/21/25	05/21/25	
Bromobenzene	ND	1.00	1	05/21/25	05/21/25	
Bromochloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromodichloromethane	ND	1.00	1	05/21/25	05/21/25	
Bromoform	ND	1.00	1	05/21/25	05/21/25	
Bromomethane	ND	2.00	1	05/21/25	05/21/25	
n-Butyl Benzene	ND	1.00	1	05/21/25	05/21/25	
sec-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
tert-Butylbenzene	ND	1.00	1	05/21/25	05/21/25	
Carbon Tetrachloride	ND	1.00	1	05/21/25	05/21/25	
Chlorobenzene	ND	1.00	1	05/21/25	05/21/25	
Chloroethane	ND	2.00	1	05/21/25	05/21/25	
Chloroform	ND	5.00	1	05/21/25	05/21/25	
Chloromethane	ND	2.00	1	05/21/25	05/21/25	
2-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
4-Chlorotoluene	ND	1.00	1	05/21/25	05/21/25	
Dibromochloromethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	05/21/25	05/21/25	
1,2-Dibromoethane (EDB)	ND	2.00	1	05/21/25	05/21/25	
Dibromomethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,4-Dichlorobenzene	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloroethane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
cis-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
trans-1,2-Dichloroethene	ND	1.00	1	05/21/25	05/21/25	
1,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,3-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
2,2-Dichloropropane	ND	1.00	1	05/21/25	05/21/25	
1,1-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
cis-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
trans-1,3-Dichloropropene	ND	1.00	1	05/21/25	05/21/25	
Diisopropyl Ether (DIPE)	ND	1.00	1	05/21/25	05/21/25	
Ethylbenzene	ND	1.00	1	05/21/25	05/21/25	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	05/21/25	05/21/25	
Hexachlorobutadiene	ND	5.00	1	05/21/25	05/21/25	
2-Hexanone	ND	20.0	1	05/21/25	05/21/25	
Isopropylbenzene	ND	1.00	1	05/21/25	05/21/25	
4-Isopropyltoluene	ND	1.00	1	05/21/25	05/21/25	
2-Butanone (MEK)	ND	20.0	1	05/21/25	05/21/25	
Methylene Chloride	ND	2.00	1	05/21/25	05/21/25	
1-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
2-Methylnaphthalene	ND	10.0	1	05/21/25	05/21/25	
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	05/21/25	05/21/25	

Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Trip Blank

E505172-06

Analyte	Result	Reporting ug/L	Limit ug/L	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B							Batch: 2521099
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	05/21/25	05/21/25		
Naphthalene	ND	5.00	1	05/21/25	05/21/25		
n-Propyl Benzene	ND	1.00	1	05/21/25	05/21/25		
Styrene	ND	1.00	1	05/21/25	05/21/25		
tert-Amyl Methyl ether (TAME)	ND	1.00	1	05/21/25	05/21/25		
1,1,1,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25		
1,1,2,2-Tetrachloroethane	ND	1.00	1	05/21/25	05/21/25		
Tetrachloroethene	ND	1.00	1	05/21/25	05/21/25		
1,2,3-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25		
1,2,4-Trichlorobenzene	ND	5.00	1	05/21/25	05/21/25		
1,1,1-Trichloroethane	ND	1.00	1	05/21/25	05/21/25		
1,1,2-Trichloroethane	ND	1.00	1	05/21/25	05/21/25		
Trichloroethene	ND	1.00	1	05/21/25	05/21/25		
Trichlorofluoromethane (Freon-11)	ND	2.00	1	05/21/25	05/21/25		
1,2,3-Trichloropropane	ND	2.00	1	05/21/25	05/21/25		
1,2,4-Trimethylbenzene	ND	5.00	1	05/21/25	05/21/25		
1,3,5-Trimethylbenzene	ND	1.00	1	05/21/25	05/21/25		
Toluene	ND	1.00	1	05/21/25	05/21/25		
Vinyl chloride	ND	2.00	1	05/21/25	05/21/25		
o-Xylene	ND	1.00	1	05/21/25	05/21/25		
p,m-Xylene	ND	2.00	1	05/21/25	05/21/25		
Total Xylenes	ND	1.00	1	05/21/25	05/21/25		
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	05/21/25	05/21/25		
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.5 %	70-130	05/21/25	05/21/25		
<i>Surrogate: Toluene-d8</i>		99.3 %	70-130	05/21/25	05/21/25		

QC Summary Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit ug/L	Spike Level ug/L	Source Result ug/L	Rec	Rec Limits %	RPD	RPD Limit %	Notes
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Blank (2521099-BLK1)

Prepared: 05/21/25 Analyzed: 05/21/25

Acetone	ND	20.0
Benzene	ND	1.00
Bromobenzene	ND	1.00
Bromochloromethane	ND	1.00
Bromodichloromethane	ND	1.00
Bromoform	ND	1.00
Bromomethane	ND	2.00
n-Butyl Benzene	ND	1.00
sec-Butylbenzene	ND	1.00
tert-Butylbenzene	ND	1.00
Carbon Tetrachloride	ND	1.00
Chlorobenzene	ND	1.00
Chloroethane	ND	2.00
Chloroform	ND	5.00
Chloromethane	ND	2.00
2-Chlorotoluene	ND	1.00
4-Chlorotoluene	ND	1.00
Dibromochloromethane	ND	1.00
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00
1,2-Dibromoethane (EDB)	ND	2.00
Dibromomethane	ND	1.00
1,2-Dichlorobenzene	ND	1.00
1,3-Dichlorobenzene	ND	1.00
1,4-Dichlorobenzene	ND	1.00
1,1-Dichloroethane	ND	1.00
1,2-Dichloroethane	ND	1.00
1,1-Dichloroethene	ND	1.00
cis-1,2-Dichloroethene	ND	1.00
trans-1,2-Dichloroethene	ND	1.00
1,2-Dichloropropane	ND	1.00
1,3-Dichloropropane	ND	1.00
2,2-Dichloropropane	ND	1.00
1,1-Dichloropropene	ND	1.00
cis-1,3-Dichloropropene	ND	1.00
trans-1,3-Dichloropropene	ND	1.00
Diisopropyl Ether (DIPE)	ND	1.00
Ethylbenzene	ND	1.00
Ethyl tert-Butyl Ether (ETBE)	ND	1.00
Hexachlorobutadiene	ND	5.00
2-Hexanone	ND	20.0
Isopropylbenzene	ND	1.00
4-Isopropyltoluene	ND	1.00
2-Butanone (MEK)	ND	20.0
Methylene Chloride	ND	2.00
1-Methylnaphthalene	ND	10.0
2-Methylnaphthalene	ND	10.0
4-Methyl-2-pentanone (MIBK)	ND	20.0
Methyl tert-Butyl Ether (MTBE)	ND	1.00
Naphthalene	ND	5.00
n-Propyl Benzene	ND	1.00
Styrene	ND	1.00
tert-Amyl Methyl ether (TAME)	ND	1.00
1,1,1,2-Tetrachloroethane	ND	1.00
1,1,2,2-Tetrachloroethane	ND	1.00
Tetrachloroethene	ND	1.00
1,2,3-Trichlorobenzene	ND	5.00
1,2,4-Trichlorobenzene	ND	5.00
1,1,1-Trichloroethane	ND	1.00
1,1,2-Trichloroethane	ND	1.00
Trichloroethene	ND	1.00
Trichlorofluoromethane (Freon-11)	ND	2.00
1,2,3-Trichloropropane	ND	2.00
1,2,4-Trimethylbenzene	ND	5.00
1,3,5-Trimethylbenzene	ND	1.00

QC Summary Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result ug/L	Reporting Limit ug/L	Spike Level ug/L	Source Result ug/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521099-BLK1)

Prepared: 05/21/25 Analyzed: 05/21/25

Toluene	ND	1.00							
Vinyl chloride	ND	2.00							
o-Xylene	ND	1.00							
p,m-Xylene	ND	2.00							
Total Xylenes	ND	1.00							
Surrogate: Bromofluorobenzene	9.77		10.0		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	9.70		10.0		97.0	70-130			
Surrogate: Toluene-d8	9.99		10.0		99.9	70-130			

LCS (2521099-BS1)

Prepared: 05/21/25 Analyzed: 05/21/25

Acetone	54.5	20.0	100		54.5	20-185			
Benzene	48.1	1.00	50.0		96.1	70-130			
Bromoform	41.5	1.00	50.0		83.0	70-131			
Bromomethane	51.3	2.00	50.0		103	22-187			
sec-Butylbenzene	42.4	1.00	50.0		84.7	70-130			
Carbon Tetrachloride	47.2	1.00	50.0		94.5	70-130			
Chlorobenzene	46.5	1.00	50.0		93.1	70-130			
2-Chlorotoluene	45.6	1.00	50.0		91.2	70-130			
Dibromochloromethane	44.2	1.00	50.0		88.4	70-130			
1,2-Dichlorobenzene	44.3	1.00	50.0		88.6	70-130			
1,1-Dichloroethane	51.6	1.00	50.0		103	70-130			
1,1-Dichloroethene	53.5	1.00	50.0		107	80-120			
2,2-Dichloropropane	53.8	1.00	50.0		108	50-160			
cis-1,3-Dichloropropene	48.4	1.00	50.0		96.8	70-130			
Ethylbenzene	47.8	1.00	50.0		95.7	80-120			
Isopropylbenzene	46.6	1.00	50.0		93.3	70-130			
Methyl tert-Butyl Ether (MTBE)	47.4	1.00	50.0		94.8	70-130			
Naphthalene	47.3	5.00	50.0		94.5	70-140			
tert-Amyl Methyl ether (TAME)	46.2	1.00	50.0		92.3	70-130			
Trichloroethene	46.7	1.00	50.0		93.3	70-130			
Toluene	47.1	1.00	50.0		94.1	80-120			
o-Xylene	45.8	1.00	50.0		91.7	70-130			
p,m-Xylene	92.3	2.00	100		92.3	70-130			
Total Xylenes	138	1.00	150		92.1	70-130			
Surrogate: Bromofluorobenzene	9.84		10.0		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	9.74		10.0		97.4	70-130			
Surrogate: Toluene-d8	9.90		10.0		99.0	70-130			

Matrix Spike (2521099-MS1)

Source: E505188-02

Prepared: 05/21/25 Analyzed: 05/21/25

Acetone	2880	1000	5000	ND	57.5	10-190			
Benzene	2430	50.0	2500	ND	97.2	59-133			
Bromoform	2110	50.0	2500	ND	84.3	66-140			
Bromomethane	2520	100	2500	ND	101	17-190			
sec-Butylbenzene	2130	50.0	2500	ND	85.2	66-139			
Carbon Tetrachloride	2310	50.0	2500	ND	92.6	61-139			
Chlorobenzene	2350	50.0	2500	ND	94.0	70-130			
2-Chlorotoluene	2310	50.0	2500	ND	92.6	67-134			
Dibromochloromethane	2250	50.0	2500	ND	90.0	70-132			
1,2-Dichlorobenzene	2280	50.0	2500	ND	91.2	70-130			
1,1-Dichloroethane	2600	50.0	2500	ND	104	64-134			
1,1-Dichloroethene	2600	50.0	2500	ND	104	49-144			
2,2-Dichloropropane	2520	50.0	2500	ND	101	45-165			
cis-1,3-Dichloropropene	2410	50.0	2500	ND	96.3	70-130			
Ethylbenzene	2410	50.0	2500	ND	96.2	62-136			
Isopropylbenzene	2350	50.0	2500	ND	94.1	67-136			
Methyl tert-Butyl Ether (MTBE)	2490	50.0	2500	ND	99.4	61-136			
Naphthalene	2570	250	2500	ND	103	60-160			
tert-Amyl Methyl ether (TAME)	2410	50.0	2500	ND	96.2	65-135			
Trichloroethene	2360	50.0	2500	ND	94.3	49-148			
Toluene	2340	50.0	2500	ND	93.6	67-130			
o-Xylene	2310	50.0	2500	ND	92.5	70-130			

QC Summary Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result ug/L	Reporting Limit ug/L	Spike Level ug/L	Source Result ug/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Matrix Spike (2521099-MS1)

Source: E505188-02

Prepared: 05/21/25 Analyzed: 05/21/25

p,m-Xylene	4640	100	5000	ND	92.7	65-135			
Total Xylenes	6950	50.0	7500	ND	92.7	65-135			
Surrogate: Bromofluorobenzene	495		500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	509		500		102	70-130			
Surrogate: Toluene-d8	499		500		99.8	70-130			

Matrix Spike Dup (2521099-MSD1)

Source: E505188-02

Prepared: 05/21/25 Analyzed: 05/21/25

Acetone	2900	1000	5000	ND	58.0	10-190	0.814	30	
Benzene	2500	50.0	2500	ND	99.8	59-133	2.70	20	
Bromoform	2270	50.0	2500	ND	90.9	66-140	7.51	20	
Bromomethane	2500	100	2500	ND	99.9	17-190	1.04	20	
sec-Butylbenzene	2200	50.0	2500	ND	88.0	66-139	3.21	20	
Carbon Tetrachloride	2410	50.0	2500	ND	96.5	61-139	4.21	20	
Chlorobenzene	2440	50.0	2500	ND	97.7	70-130	3.90	20	
2-Chlorotoluene	2400	50.0	2500	ND	96.1	67-134	3.73	20	
Dibromochloromethane	2380	50.0	2500	ND	95.2	70-132	5.70	20	
1,2-Dichlorobenzene	2360	50.0	2500	ND	94.4	70-130	3.43	20	
1,1-Dichloroethane	2690	50.0	2500	ND	107	64-134	3.33	20	
1,1-Dichloroethene	2650	50.0	2500	ND	106	49-144	2.06	20	
2,2-Dichloropropane	2640	50.0	2500	ND	106	45-165	4.49	20	
cis-1,3-Dichloropropene	2520	50.0	2500	ND	101	70-130	4.55	20	
Ethylbenzene	2490	50.0	2500	ND	99.5	62-136	3.31	20	
Isopropylbenzene	2450	50.0	2500	ND	97.9	67-136	3.96	20	
Methyl tert-Butyl Ether (MTBE)	2570	50.0	2500	ND	103	61-136	3.42	20	
Naphthalene	2710	250	2500	ND	108	60-160	5.12	20	
tert-Amyl Methyl ether (TAME)	2480	50.0	2500	ND	99.3	65-135	3.13	20	
Trichloroethene	2460	50.0	2500	ND	98.4	49-148	4.24	20	
Toluene	2440	50.0	2500	ND	97.6	67-130	4.16	20	
o-Xylene	2420	50.0	2500	ND	97.0	70-130	4.73	20	
p,m-Xylene	4850	100	5000	ND	97.0	65-135	4.49	20	
Total Xylenes	7270	50.0	7500	ND	97.0	65-135	4.57	20	
Surrogate: Bromofluorobenzene	496		500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	504		500		101	70-130			
Surrogate: Toluene-d8	499		500		99.8	70-130			

QC Summary Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 5/22/2025 3:49:42PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

Blank (2521054-BLK1)

Prepared: 05/20/25 Analyzed: 05/20/25

Chloride ND 2.00

LCS (2521054-BS1)

Prepared: 05/20/25 Analyzed: 05/20/25

Chloride 25.6 2.00 25.0 102 90-110

LCS Dup (2521054-BSD1)

Prepared: 05/20/25 Analyzed: 05/20/25

Chloride 25.6 2.00 25.0 102 90-110 0.0773 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: WPQ Project Number: 20071-0001 Project Manager: Kariza	Reported: 05/22/25 15:49
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Chain of Custody

Client Information				Invoice Information				Lab Use Only		TAT				State					
Client: <i>Atkins</i>	Project Name: <i>WPS</i>	Project Manager: <i>Kari Zan</i>	Address:	Company: <i>Atkins Eng</i>	Address: <i>307 W 2nd</i>	City, State, Zip: <i>Roseville, MN</i>	Phone: <i>575-0865414</i>	Lab WO# E505172	Job Number 20071.0001	1D	2D	3D	Std	NM	CO	UT	TX		
Analysis and Method												EPA Program							
												SDWA	CWA	RCRA					
												Compliance	Y	or	N				
												PWSID #							
Sample Information												Remarks							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Field	DRO/ORD by 8015	GR/ORD by 8015	BTX/ORD by 8021	Chloride 3000	TCEA 1000 - TX	RCRA 8.8 Maters	BG60C - NM	BG60C - TX	Sample Temp	
1025	5/15/25	Aqu	4	MW- 22 SR				1		X	X	X						2.0	
1045			1	MW-TR				2										1.8	
955			1	MW-14				3										2.0	
1040			1	MW-24				4										1.6	
1045			1	Duplicate 1				5										2.1	
			1	Trip Blank				6										2.3	
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by:																			
Relinquished by: (Signature) <i>M. J.</i>	Date 5/15/25	Time 1200	Received by: (Signature) <i>Michelle Gonzales</i>	Date 5-15-25	Time 1200	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.													
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 5-15-25	Time 1600	Received by: (Signature) <i>Carla Marr</i>	Date 5-15-25	Time 1600														
Relinquished by: (Signature) <i>Carla Marr</i>	Date 5-15-25	Time 2215	Received by: (Signature) <i>Carla Marr</i>	Date 5-16-25	Time 830														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Atkins Engineering Associates Inc.	Date Received:	05/16/25 08:30	Work Order ID:	E505172
Phone:	(575) 626-3993	Date Logged In:	05/15/25 14:24	Logged In By:	Caitlin Mars
Email:	kariza@atkinseng.com	Due Date:	05/22/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
 2. Does the number of samples per sampling site location match the COC Yes
 3. Were samples dropped off by client or carrier? Yes Carrier: Courier
 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
 5. Were all samples received within holding time? Yes
 Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
 8. If yes, was cooler received in good condition? Yes
 9. Was the sample(s) received intact, i.e., not broken? Yes
 10. Were custody/security seals present? No
 11. If yes, were custody/security seals intact? NA
 12. Was the sample received on ice? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? Yes
 15. Are VOC samples collected in VOA Vials? Yes
 16. Is the head space less than 6-8 mm (pea sized or less)? No
 17. Was a trip blank (TB) included for VOC analyses? Yes
 18. Are non-VOC samples collected in the correct containers? Yes
 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 Sample ID? Yes
 Date/Time Collected? No
 Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? Yes
 22. Are sample(s) correctly preserved? No
 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.	Date
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 535768

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 535768
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
shanna.smith	Groundwater Sampling Report is satisfactory.	12/22/2025