EQUUS
Environmental, LLC

May 11, 2026

Cory Smith
Environmental Projects Supervisor
New Mexico Oil Conservation Division
5200 Oakland Avenue NE, Suite 100
Albuquerque, NM 87113

Re: Twelfth Annual Groundwater Monitoring Report
State M Lease (AP-72)
Incident Number: NCS2215955789
Lea County, New Mexico

Mr. Smith

Equus Environmental, LLC (Equus), on behalf of our client Expand Energy Corporation, formerly Chesapeake Energy Corporation, is pleased to submit to the New Mexico Oil Conservation Division (NMOCD) in electronic format the ***12th Annual Groundwater Monitoring Report*** (Report) detailing the twelfth year of groundwater monitoring and remediation activities conducted at the State M Lease (AP-72) located in the SE-SW-SE of Section 18, Township 17 South, Range 36 East, Lea County, New Mexico. These activities were conducted in accordance with the Stage 2 Abatement Plan for the Site approved by the NMOCD on June 27, 2013.

If you have any questions or comments regarding this Report, please do not hesitate to contact me at (918) 289-1405.

Sincerely,
Equus Environmental, LLC

Matthew N. Mugavero, P.G.
Senior Hydrogeologist/Project Manager

Enclosure: 12th Annual Groundwater Monitoring Report

xc: Patrick McMahon - Heidel, Samberson, Newell, Cox & McMahon
Dana Drury - Chesapeake Energy

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12TH ANNUAL GROUNDWATER MONITORING REPORT
EXPAND ENERGY CORPORATION
STATE M LEASE (AP-72)
LEA COUNTY, NEW MEXICO

Prepared for:

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May 11, 2026

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Environmental, LLC

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

12TH ANNUAL GROUNDWATER MONITORING REPORT
EXPAND ENERGY CORPORATION
STATE M LEASE (AP-72)
LEA COUNTY, NEW MEXICO
MAY 11, 2026

1.0 INTRODUCTION

Expand Energy Corporation (Expand), formerly Chesapeake Energy Corporation (Chesapeake), has retained Equus Environmental, LLC (Equus) to perform impacted groundwater monitoring and light non-aqueous phase liquid (LNAPL) hydrocarbon remediation at the former Chesapeake State M Lease site (Site) located in Lea County, New Mexico. The Site is located approximately 8 miles south-southwest of Lovington, New Mexico in the SE-SW-SE of Section 18, Township 17 South, Range 36 East, Lea County, New Mexico (coordinates 32.828061º latitude, -103.391012º longitude). The Site location and topographic features are shown on **Figure 1**. A production tank battery for oil and gas was formerly located at the Site. Chesapeake purchased the Site in 2004, but never operated the tank battery. Chesapeake began abandonment and environmental investigation activities at the Site in 2007.

Initial Site investigation activities were conducted in May 2007. These investigation activities consisted of conducting EM-31 and EM-34 ground conductivity surveys, the collection of soil samples from nine boreholes, and the installation and sampling of seven groundwater monitoring wells. Following the investigation in August 2007, Chesapeake submitted to the New Mexico Oil Conservation Division (NMOCD) a Stage 1 Abatement Plan for the Site. In May 2010, the NMOCD responded to Chesapeake that the agency was not adequately staffed to review the abatement plan in a timely manner and advised Chesapeake that they could proceed with abatement operations at risk. In July 2010, Chesapeake notified the NMOCD of their intent to proceed with the Stage 1 Abatement activities. On March 20, 2012, following implementation of these activities, Chesapeake submitted the Stage 1 Abatement Report for the Site.

On March 27, 2012, Chesapeake submitted to the NMOCD the ***Stage 2 Abatement Plan*** (Plan) for the Site. A copy of the Plan is provided in **Appendix A**. In this Plan, Chesapeake proposed the following abatement activities at the Site:

- Excavate and remove the near-surface soils at the Site containing concentrations of chloride exceeding 1,000 milligrams per kilogram (mg/kg),

- Excavate and remove the near-surface soils at the Site containing concentrations of TPH exceeding 1,000 mg/kg,
- Install clay liners in areas where chloride and/or TPH concentrations exceed 1,000 mg/kg at depths greater than five feet below ground level (BGL),
- Install one additional groundwater monitoring well downgradient of the Site,
- Monitor the groundwater at the Site until the concentrations of chloride and benzene are below the New Mexico Water Quality Control Commission (WQCC) standards.

On March 7, 2013, NMOCD notified Chesapeake that the Plan was administratively complete and that Chesapeake should proceed with public notice of the Plan. On March 30, 2013, Chesapeake published a notice of the proposed activities in the Albuquerque Journal, the Hobbs-Daily News Sun and the Lovington Leader. In addition, written notification of the Plan submittal was sent to all surface owners of record within a 1-mile radius of the Site. On June 27, 2013 upon completion of the notification activities, the NMOCD approved the Plan for the Site. A copy of the NMOCD correspondence approving the Plan is included in **Appendix B**.

The soil remediation activities outlined in the Plan were conducted at the Site during the period January 15, 2014 through March 27, 2014. The soil remediation activities were summarized in the document titled ***Soil Remediation Summary Report***, submitted to the NMOCD on August 6, 2014.

This ***12th Annual Groundwater Monitoring Report*** (Report) summarizes the groundwater monitoring activities conducted at the Site during the following quarterly sampling events:

- 45th Event - June 12, 2025,
- 46th Event - September 23, 2025,
- 47th Event – December 16, 2025,
- 48th Event - March 17, 2026.

2.0 REMEDIATION

2.1 SVE SYSTEM

As documented in the ***First Annual Groundwater Monitoring Report***, dated May 19, 2015, during the period May 12-14, 2014, a soil vapor extraction (SVE) remediation system (System) was installed and made operational at the Site. The System is comprised of 8 SVE wells connected through a manifold system constructed of two- and three-inch Schedule 80 PVC piping and plumbed to a 10-horsepower 3-phase SVE Regenerative Blower housed within the System Building. The location of the SVE wells and the System Building are shown on attached **Figure 2**. Within the System, soil vapor from the SVE wells is drawn through a moisture knock out/separator and a particulate filter prior to reaching the blower. An air-flow meter is installed downstream of the blower in the air-exhaust line and an air sample port is located on the air-exhaust line at a location upstream of its exit from the System Building.

System start-up was conducted on June 6, 2014. Routine checks of the System are conducted to record the blower run times, discharge rate and volatile organic compounds (VOC) concentration of the discharge-air stream. VOC concentrations are measured with a photo-ionization detector (PID) data in the field. These PID data are then entered into a spreadsheet to calculate both the VOC discharge rate and approximate total pounds of VOCs removed by the System. The approximate total VOC discharges for each quarter are then summed to provide a cumulative VOC discharge total. These data are summarized in **Table 1**.

In addition to the collection of field data, discharged-air samples are collected quarterly using laboratory provided Suma canisters and shipped under chain-of-custody control to Eurofins TestAmerica, Pittsburgh, Pennsylvania. Discharged-air samples are then analyzed for VOC compounds and total VOCs as hexane by Method TO-15. The discharged-air analytical data are used to compute a correlation factor for the field PID readings to more accurately calculate the total VOCs discharged.

During the 45th quarter, discharge-air sample 20250612 M-1 was collected on June 12, 2025. On this date, the System had been running for a total of 93,141 hours, was operating at 449 CFM and had a field reading of 2.6 PPM from the discharge air stream. Laboratory analytical results for this discharge-air sample indicated a total VOC as Hexane concentration of 34,000 PPB V/V (34 PPM V/V).

During the 46th quarter, discharge-air sample 20250912 M-1 was collected on September 23, 2025. On this date, the System had been running for a total of 95,608 hours, was operating at 472 CFM and had a field reading of 0.2 PPM from the discharge air stream. Laboratory analytical results for this discharge-air sample indicated a total VOC as Hexane concentration <18.0 PPB V/V (<0.018 PPM V/V).

During the 47th quarter, discharge-air sample 20251216 M-1 was collected on December 16, 2025. On this date, the System had been running for approximately 97,629 hours, was operating at 391 ACFM and had a field reading 0.2 PPM from the discharge air stream. Laboratory analytical results for this discharge-air sample indicated a total VOC as Hexane concentration of 198 PPB V/V (0.198 PPM V/V).

During the 48th quarter, discharge-air sample 20260317 M-1 was collected on March 17, 2026. On this date, the System had been running for a total of 99,811 hours, was operating at 569 ACFM and had a field reading of 0.4 PPM from the discharge air stream. Laboratory analytical results for this discharge-air sample indicated a total VOC as Hexane concentration of <12.6 PPB V/V (<0.126 PPM V/V).

A summary of the laboratory analytical results for the discharged-air samples is presented in **Table 2**, and complete copies of the laboratory analytical reports and chain-of-custody documentation are provided in **Appendix C**.

Field PID instrument readings are typically lower than laboratory analysis for total VOCs. To compensate for the low field PID readings, a correlation factor is calculated based upon the ratio of the laboratory analytical value versus the field PID value. The correlation factor is then used to multiply the field PID readings and calculate the total pounds of VOCs discharged from the System. To accurately reflect the total pounds of VOCs discharged from the System during a given period, **Table 1** also includes the unique correlation factor calculated for each quarterly air-discharge sampling event. This unique correlation factor is then utilized to calculate the total pounds of VOCs discharged from the System for the period in which that particular air-discharge sample was collected. Utilizing the noted correlation factors, approximately 15,821.34 pounds (8.01 tons) of VOCs have been removed from the subsurface at the Site.

Figure 3 presents a graph of the VOC concentrations observed in the discharge air stream versus time. As can be seen on this figure, the levels of VOC observed in the air discharge stream have decreased dramatically since startup. These data indicate that the System is effective at

removing hydrocarbon vapors from the subsurface. Removal of hydrocarbon vapors coupled with the influx of oxygen drawn into the impacted area by the System enhances biodegradation of the hydrocarbon impacts observed in this area.

2.2 MW-1R LNAPL RECOVERY

As documented in the ***First Annual Groundwater Monitoring Report***, dated May 19, 2015, to enhance LNAPL recovery in the MW-1R area, 2-inch diameter monitoring well MW-1 was plugged and replaced with 4-inch diameter monitoring well MW-1R. On June 5, 2014, a QED Environmental Genie LNAPL recovery pump was placed and made operational in monitoring well MW-1R. This recovery pump ran continuously through the 2020 monitoring period, at which time LNAPL thickness decreased to levels that were outside of the recovery pump's capabilities, and the pump was shut down. The apparent LNAPL thicknesses measured in monitoring well MW-1R during this reporting period ranged from 0.00-feet to 0.92-feet. Since LNAPL in monitoring well MW-1R appears to indicate a slight rebound in apparent thickness, Expand is considering re-deploying the Genie recovery pump into MW-1R. At this time, LNAPL recovery in MW-1R is conducted by the deployment of hydrophobic LNAPL absorption socks which are changed out as necessary. During the operation of the Genie LNAPL recovery pump, approximately 15 drums (822.5 gallons) of LNAPL have been removed from the subsurface.

3.0 QUARTERLY GROUNDWATER MONITORING

This Report describes the findings from four quarterly groundwater sampling events conducted at the Site from June 12, 2025 through March 17, 2026. The constituents of concern (COC) at the Site consists of chloride and benzene, toluene, ethylbenzene, and xylenes (BTEX). The laboratory analytical results for chloride and BTEX from these sampling events are screened against *the* ***New Mexico Administrative Code (NMAC) 20.6.2, Standards for Groundwater of 10,000 mg/L TDS Concentration or Less***, as issued by the WQCC. The applicable cleanup standards presented in ***NMAC 20.6.2*** consist of the following: chloride (250 mg/L), benzene (5 µg/L), toluene (1,000 µg/L), ethylbenzene (700 µg/L), and total xylenes (620 µg/L), herein referenced to as the Limit(s). According to the remediation goals set in the Plan, each Site monitoring well is required to exhibit eight consecutive monitoring events where chloride is less than the Limit. In addition, the same applies for BTEX constituents in monitoring well MW-1R, only.

Monitoring well MW-4 is the only well that continues to exhibit concentrations of chloride that are greater than the Limit of 250 mg/L. The remaining groundwater monitoring wells at the Site have met the criteria for exhibiting eight consecutive monitoring events with chloride concentrations less than the Limit. Expand continues to collect groundwater samples for chloride analysis from monitoring well MW-4.

Monitoring well MW-1R met the remediation goals for BTEX constituents at the end of the 2023 monitoring period and therefore was not sampled during this 2025 reporting period. On June 11, 2024, the NMOCD approved the suspension of monitoring well MW-1R from the sampling program stating that BTEX concentrations have been demonstrated to be below the WQCC human health standards for eight consecutive monitoring events. A copy of this correspondence is provided in **Appendix D**.

3.1 DEPTH-TO-GROUNDWATER MEASUREMENTS

Prior to collecting groundwater samples during each quarterly event, Equus gauged the 8 monitoring wells (MW-1R through MW-8) at the Site using an electronic interface probe to determine the depth-to-water (DTW) and LNAPL thickness within each well. The locations of these monitoring wells are shown on **Figure 2**. DTWs were measured from the surveyed top-of-casing (TOC) of each well and converted to elevations relative to mean sea level. These data are presented in **Table 3**. A potentiometric surface map was constructed utilizing groundwater elevation data from the March 17, 2026 monitoring event to illustrate the

groundwater flow direction within the shallow groundwater system beneath the Site. This potentiometric surface map is presented on **Figure 4**. As can be seen on **Figure 4**, groundwater flow at the Site is, in general, from the northwest to the southeast.

3.2 GROUNDWATER SAMPLING METHODS

Upon completion of DTW measurement activities, Equus field personnel collected a groundwater sample from monitoring well MW-4 per the Plan. The groundwater sample was collected from monitoring well MW-4 for chloride utilizing EPA approved low-flow purging/sampling methodologies. Field parameters consisting of pH, specific conductivity, temperature, and dissolved oxygen (DO) were measured during field activities utilizing a multi-parameter meter and air-tight flow-through cell. Upon stabilization of the field parameters, the groundwater sample was collected into laboratory prepared containers, labeled as to source and contents, placed on ice for preservation, placed under chain-of-custody control and shipped via overnight courier to the analytical laboratory (Eurofins, Edison, New Jersey). As per the Plan, the groundwater sample collected from monitoring well MW-4 was analyzed for chloride by EPA Method 300.0. A summary of the laboratory analytical results for chloride and BTEX analyses are presented in **Tables 4** and **5**, respectively. Complete copies of the laboratory analytical reports and chain-of-custody documentation are provided in **Appendix C**.

3.3 45TH QUARTERLY GROUNDWATER SAMPLING RESULTS

The 45th groundwater sampling event was conducted at the Site on June 12, 2025. As can be seen in **Table 4**, the groundwater sample collected from monitoring well MW-4 exhibited a concentration of chloride (386 mg/L) that exceeds the Limit of 250 mg/L. LNAPL was not observed in monitoring well MW-1R.

3.4 46TH QUARTERLY GROUNDWATER SAMPLING RESULTS

The 46th quarterly groundwater sampling event was conducted at the Site on September 23, 2025. As can be seen in **Table 4**, the groundwater sample collected from monitoring well MW-4 exhibited a concentration of chloride (295 mg/L) that exceeds the Limit of 250 mg/L. LNAPL was observed in monitoring well MW-1R at a measured apparent thickness of 0.01 feet.

3.5 47TH QUARTERLY GROUNDWATER SAMPLING RESULTS

The 47th quarterly groundwater sampling event was conducted at the Site on December 16, 2025. As can be seen in **Table 4**, the groundwater sample collected from monitoring well MW-4 exhibited a concentration of chloride (337 mg/L) that exceeds the Limit of 250 mg/L. LNAPL was observed in monitoring well MW-1R at a measured apparent thickness of 0.30 feet.

3.6 48TH QUARTERLY GROUNDWATER SAMPLING RESULTS

The 48th quarterly groundwater sampling event was conducted at the Site on March 17, 2026. As can be seen in **Table 4**, the groundwater sample collected from monitoring well MW-4 exhibited a chloride concentration (298 mg/L) that exceeds the Limit of 250 mg/L. LNAPL was observed in monitoring well MW-1R at a measured apparent thickness of 0.92 feet.

Figure 5 presents an isopleth map depicting chloride concentrations in groundwater at the Site. The data used to prepare this isopleth map includes the most recent chloride concentration detected in monitoring well MW-4 (March 17, 2026), and chloride concentrations from the last reported sampling date for each of the remaining Site monitoring wells. As can be seen in **Figure 5**, a relatively small areal extent of chloride impacted groundwater remains at concentrations greater than 250 mg/L Limit.

Figure 6 presents chloride concentration trend graphs for each of the monitoring wells sampled at the Site. The decreasing trends shown on these graphs indicate that the soil remediation activities conducted in the first quarter of 2014 have removed the continuing source of chloride causing impacts to the groundwater at the Site. Source removal has facilitated the physical natural attenuation mechanisms of dispersion and dilution on remnant chloride concentrations present in Site groundwater.

4.0 CONCLUSIONS

Based upon the data presented herein, the following conclusions are presented:

- Groundwater beneath the Site is encountered at depths ranging from 49.79 to 52.79 feet from the surveyed top-of-casing of the Site monitoring wells.
- The direction of groundwater flow at the Site is, in general, from the northwest to the southeast.
- The SVE System is operating as designed and has removed approximately 15,821.34 pounds of VOCs since start-up on June 6, 2014.
- Monitoring well MW-4 is the only remaining well exhibiting concentrations of chloride greater than the Limit of 250 mg/L. During this latest reporting period, chloride concentrations in monitoring well MW-4 ranged from 295 mg/L to 386 mg/L.
- During the reporting period, LNAPL continues to be removed from monitoring well MW-1R with hydrophobic absorbent socks. Apparent LNAPL thicknesses measured in monitoring well MW-1R have shown an increasing trend during the 2025 reporting period, with the greatest apparent thicknesses of 0.92 feet recorded during the fourth quarter. This increase in apparent LNAPL thickness may be attributed to the decreasing level of groundwater observed during the 2025 reporting period, which appears to have dropped 2.59 feet in MW-1R over the past year.
- Expand is exploring additional options to address the LNAPL in monitoring well MW-1R, such as re-installing the Genie skimmer pump.

5.0 RECOMMENDATIONS

Based upon a review of the data presented within this report, the following recommendations have been developed:

- Expand may consider re-deploying the LNAPL skimmer-pump into MW-1R to further recover increasing LNAPL observed during the 2025 reporting period. Until that decision is made, hydrophobic absorption socks should continue to be placed in MW-1R to remove LNAPL, when present. These socks should continue to be changed out during each quarterly event.

- The SVE system should continue to be operated for volatile organic vapor removal from the vadose zone.

- The groundwater within monitoring well MW-4 should continue to be monitored on a quarterly basis for chloride until eight consecutive quarterly sampling events result in chloride levels less than the New Mexico Water Quality Control Commission standards. The next groundwater monitoring event at the Site is scheduled to be conducted in June 2026.

TABLES

Table 1 : Summary of SVE System Field Readings
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Date	Time	Run Time Reading	Operating Hours		Discharge Readings		VOC Discharge				Calculated Correlation Factor
			since last reading	Total	PPM	CFM	lbs/Hr	lbs since last Reading	Total lbs	Total Tons	
06/07/14	8:00	4131.73	19.73	20	596	519	2.281	44.99	44.99	0.02	
06/08/14	7:10	4154.69	22.96	43	398	483	1.416	32.50	77.50	0.04	
06/08/14	9:15	4156.94	2.25	45	5000	489	18.021	40.55	118.05	0.06	
06/12/14	12:40	4256.45	99.51	144	1817	120	1.607	159.92	277.96	0.14	
06/12/14	12:43	4259.65	3.20	148	1561	117	1.346	4.31	282.27	0.14	
06/13/14	7:15	4274.90	18.45	163	1804	122	1.622	29.93	307.89	0.15	
06/13/14	7:17	4276.27	1.37	164	3390	121	3.023	4.14	312.03	0.16	
06/13/14	7:18	4277.08	0.81	165	2301	120	2.035	1.65	313.68	0.16	
06/19/14	12:05	4422.02	144.94	310	1153	120	1.020	147.81	461.49	0.23	
06/19/14	13:30	4423.74	1.72	312	1117	107	0.881	1.52	463.00	0.23	
06/19/14	16:00	4426.00	2.26	314	1448	121	1.291	2.92	465.92	0.23	0.98
06/24/14	12:05	4543.27	117.27	431	*1440*	*120*	1.274	149.36	615.28	0.31	
06/26/14	12:40	4591.01	165.01	479	1970	127	1.844	304.28	919.56	0.46	
06/26/14	12:42	4593.20	2.19	481	1968	120	1.741	3.81	923.37	0.46	
07/03/14	9:35	4755.92	162.72	644	1650	126	1.532	249.34	1172.71	0.59	
07/03/14	9:37	4757.95	2.03	646	1318	126	1.224	2.48	1175.20	0.59	
07/09/14	11:40	4901.77	143.82	790	875	126	0.812	116.80	1292.00	0.65	
07/09/14	11:42	4903.69	1.92	792	795	124	0.727	1.40	1293.39	0.65	
07/17/14	12:33	5094.48	190.79	982	*790*	124	0.722	137.75	1431.15	0.72	
07/17/14	12:34	5095.13	0.65	983	*790*	127	0.739	0.48	1431.63	0.72	
07/17/14	12:36	5097.75	2.62	986	*790*	127	0.739	1.94	1433.56	0.72	
08/01/14	11:00	5452.10	354.35	1,340	1078	139	1.104	391.35	1824.91	0.91	
08/01/14	11:42	5454.03	1.93	1,342	938	150	1.037	2.00	1826.91	0.91	
08/01/14	11:44	5456.32	2.29	1,344	2314	14	0.239	0.55	1827.46	0.91	
10/10/14	13:00	7118.38	1662.06	3,006	130	51	0.049	81.70	1909.16	0.95	
10/10/14	13:02	7120.15	1.77	3,008	216	58	0.093	0.16	1909.32	0.95	1.86
10/31/14	13:00	7622.85	502.70	3,511	161	48	0.057	28.63	1937.95	0.97	
10/31/14	13:04	7624.49	1.64	3,512	78	54	0.031	0.05	1938.00	0.97	
12/11/14	13:50	8607.53	983.04	4,496	352	***131***	0.340	334.10	2272.11	1.14	
01/15/15	10:11	9441.32	833.79	5,329	47	131	0.045	37.60	2309.70	1.15	
01/15/15	10:12	9442.31	0.99	5,330	173	152	0.194	0.19	2309.89	1.15	
01/15/15	10:15	9445.26	2.95	5,333	388	136	0.389	1.15	2311.04	1.16	
01/29/15	11:50	9778.04	332.78	5,666	240	54	0.095	31.49	2342.53	1.17	
01/29/15	11:52	9780.13	2.09	5,668	239	50	0.088	0.18	2342.72	1.17	0.21
02/26/15	11:00	10448.98	668.85	6,337	72	137	0.073	48.63	2391.35	1.20	
02/26/15	11:02	10450.10	1.12	6,338	178	155	0.204	0.23	2391.57	1.20	
03/12/15	10:15	10780.66	330.56	6,669	483	***155***	0.552	182.40	2573.97	1.29	
04/28/15	8:30	11901.34	1120.68	7,789	126	114	0.106	118.86	2692.84	1.35	
04/28/15	8:36	11907.42	6.08	7,795	132	126	0.123	0.75	2693.58	1.35	
05/14/15	9:05	12285.12	377.70	8,173	96	55	0.039	14.68	2708.26	1.35	1.10
05/14/15	9:10	12290.05	4.93	8,178	105	58	0.045	0.22	2708.48	1.35	
05/28/15	11:30	12623.70	333.65	8,512	6	150	0.006	2.07	2710.55	1.36	
06/11/15	10:39	12650.70	27.00	8,539	318	172	0.403	10.88	2721.43	1.36	
07/02/15	11:00	13154.04	503.34	9,042	85	112	0.070	35.32	2756.75	1.38	0.76
09/03/15	8:00	14662.17	1508.13	10,550	249	104	0.191	287.85	3044.60	1.52	
12/10/15	13:00	17015.28	2353.11	12,903	162	95	0.113	266.92	3311.52	1.66	0.86

Table 1 : Summary of SVE System Field Readings
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Date	Time	Run Time Reading	Operating Hours		Discharge Readings		VOC Discharge				Calculated Correlation Factor
			since last reading	Total	PPM	CFM	lbs/Hr	lbs since last Reading	Total lbs	Total Tons	
03/10/16	12:00	17899.58	884.30	13,788	209	105	0.162	143.03	3454.55	1.73	1.78
06/29/16	8:00	20558.59	2659.01	16,447	156	101	0.116	309.58	3764.13	1.88	3.77
07/27/16	12:30	21232.43	673.84	17,120	126	103	0.095	64.20	3828.33	1.91	
08/25/16	11:00	21927.96	695.53	17,816	115	270	0.229	159.45	3987.78	1.99	1.55
09/22/16	10:20	22596.81	668.85	18,485	169	220	0.274	183.07	4170.85	2.09	
12/08/16	9:30	24443.73	1846.92	20,332	109	220	0.177	327.03	4497.88	2.25	6.59
01/10/17	12:23	24758.20	314.47	20,646	173	233	0.297	93.37	4591.25	2.30	
01/25/17	10:56	25115.43	357.23	21,003	206	179	0.271	96.95	4688.20	2.34	3.06
02/22/17	10:35	25786.27	670.84	21,674	248	214	0.391	262.30	4950.50	2.48	
03/09/17	11:04	26146.82	360.55	22,035	321	209	0.495	178.51	5129.01	2.56	
04/05/17	11:55	26792.33	645.51	22,680	454	113	0.378	244.08	5373.09	2.69	
05/16/17	7:00	26967.77	175.44	22,856	61	198	0.089	15.69	5388.79	2.69	5.78
06/07/17	13:00	27495.83	528.06	23,384	54	221	0.087	46.02	5434.80	2.72	
09/07/17	11:36	29698.50	2202.67	25,587	62	200	0.091	201.31	5636.11	2.82	
09/22/17	11:30	30057.43	358.93	25,945	56	211	0.087	31.26	5667.37	2.83	
10/04/17	10:15	30344.40	286.97	26,232	57	198	0.083	23.87	5691.24	2.85	0.81
11/02/17	13:00	31042.78	698.38	26,931	58	185	0.079	55.23	5746.48	2.87	
12/01/17	12:30	31739.31	696.53	27,627	59	192	0.083	58.16	5804.63	2.90	
12/06/17	12:40	31859.62	120.31	27,748	6	270	0.011	1.36	5806.00	2.90	
12/18/17	15:00	32149.36	289.74	28,037	60	208	0.092	26.65	5832.65	2.92	
01/09/18	10:00	32672.25	522.89	28,560	52	189	0.072	37.88	5870.52	2.94	
01/26/18	10:15	33080.48	408.23	28,968	48	172	0.061	24.84	5895.36	2.95	
02/09/18	13:10	33416.85	336.37	29,305	32	220	0.052	17.45	5912.82	2.96	0.19
02/23/18	11:15	33753.60	336.75	29,642	34	186	0.047	15.70	5928.51	2.96	
03/07/18	10:55	34040.75	287.15	29,929	52	227	0.087	24.98	5953.50	2.98	
03/16/18	13:03	34251.67	210.92	30,140	48	195	0.069	14.55	5968.05	2.98	
04/13/18	9:15	34970.90	719.23	30,859	46	200	0.068	48.77	6016.82	3.01	
04/30/18	13:16	35332.87	361.97	31,221	46	200	0.068	24.54	6041.36	3.02	
05/15/18	13:34	35692.17	359.30	31,580	48	200	0.071	25.42	6066.78	3.03	
05/29/18	14:20	36028.04	335.87	31,916	48	200	0.071	23.77	6090.55	3.05	0.65
06/04/18	16:30	36169.50	141.46	32,058	71	200	0.105	14.81	6105.35	3.05	
06/20/18	14:30	36556.30	386.80	32,444	48	200	0.071	27.37	6132.72	3.07	
07/03/18	10:30	36865.13	308.83	32,753	56	520	0.215	66.28	6199.01	3.10	
07/19/18	10:40	37249.27	384.14	33,137	46	486	0.165	63.30	6262.30	3.13	
08/09/18	12:30	37754.97	505.70	33,643	58	386	0.165	83.45	6345.75	3.17	2.13
09/06/18					36						
09/19/18	12:00	38730.31	975.34	34,618	46	405	0.137	133.93	6479.67	3.24	
10/04/18	15:30	39093.45	363.14	34,981	73	425	0.227	82.47	6562.14	3.28	
10/18/18	13:00	39428.14	334.69	35,316	42	261	0.081	27.04	6589.19	3.29	
10/31/18	13:40	39716.90	288.76	35,605	52	317	0.121	35.08	6624.27	3.31	
11/16/18	8:00	39983.80	266.90	35,872	68	156	0.078	20.87	6645.14	3.32	1.19
11/16/18	9:54	39985.70	1.90	35,874	77	264	0.149	0.28	6645.42	3.32	
12/11/18	14:20	40585.95	600.25	36,474	90	150	0.099	59.53	6704.95	3.35	
12/27/18	13:40	40965.57	379.62	36,854	72	310	0.165	62.45	6767.40	3.38	

Table 1 : Summary of SVE System Field Readings
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Date	Time	Run Time Reading	Operating Hours		Discharge Readings		VOC Discharge				Calculated Correlation Factor
			since last reading	Total	PPM	CFM	lbs/Hr	lbs since last Reading	Total lbs	Total Tons	
01/24/19	14:58	41636.05	670.48	37,524	63	275	0.128	85.62	6853.01	3.43	
02/05/19	12:02	41919.95	283.90	37,808	48	251	0.088	25.08	6878.09	3.44	
02/21/19	12:00	42303.95	384.00	38,192	26	218	0.042	16.10	6894.20	3.45	
03/07/19	7:00	42632.85	328.90	38,521	80	208	0.122	40.29	6934.48	3.47	0.97
03/22/19	11:09	42986.51	353.66	38,875	47	177	0.062	21.78	6956.26	3.48	
04/03/19	15:00	43277.65	291.14	39,166	58	440	0.186	54.29	7010.55	3.51	
04/18/19	12:00	43634.32	356.67	39,522	105	450	0.348	124.21	7134.76	3.57	
05/17/19	13:30	44330.99	696.67	40,219	39	365	0.104	72.34	7207.11	3.60	
06/12/19	17:00	44952.75	621.76	40,841	6	170	0.008	4.67	7211.78	3.61	
06/25/19	11:00	45283.69	330.94	41,172	23	445	0.075	24.97	7236.75	3.62	
07/09/19	13:30	45573.87	290.18	41,462	27	360	0.072	20.79	7257.53	3.63	
07/22/19	14:00	45906.56	332.69	41,795	27	425	0.083	27.62	7285.15	3.64	0.87
08/05/19	11:30	46239.45	332.89	42,127	37	462	0.126	41.94	7327.09	3.66	
08/19/19	11:00	46575.01	335.56	42,463	23	533	0.090	30.32	7357.41	3.68	
09/03/19	15:15	46937.77	362.76	42,826	31	455	0.104	37.71	7395.12	3.70	
09/05/19	7:30	46980.41	42.64	42,868	79	227	0.133	5.65	7400.77	3.70	
09/16/19	11:30	47242.95	262.54	43,131	21	372	0.058	15.12	7415.89	3.71	
09/30/19	11:00	47576.43	333.48	43,464	24	355	0.063	20.94	7436.83	3.72	
10/16/19	12:00	47958.94	382.51	43,847	22	280	0.045	17.37	7454.20	3.73	
10/28/19	11:45	48246.61	287.67	44,135	16	326	0.038	11.06	7465.26	3.73	
11/11/19	11:00	48581.38	334.77	44,469	35	488	0.127	42.56	7507.82	3.75	
11/11/19	12:10	48582.46	1.08	44,470	27	188	0.037	0.04	7507.86	3.75	0.88
11/26/19	11:20	48916.78	334.32	44,805	16	284	0.033	10.95	7518.82	3.76	
11/26/19	11:50	48917.34	0.56	44,805	26	472	0.089	0.05	7518.87	3.76	
12/11/19	10:30	49294.17	376.83	45,182	30	214	0.047	17.79	7536.65	3.77	
12/22/19	11:00	49558.50	264.33	45,447	16	462	0.054	14.40	7551.05	3.78	
12/30/19	14:00	49631.20	72.70	45,519	30	462	0.102	7.43	7558.48	3.78	
01/12/20	13:00	49682.50	51.30	45,571	19	282	0.039	2.01	7560.49	3.78	
02/10/20	11:00	49806.20	123.70	45,694	19	145	0.021	2.55	7563.04	3.78	
03/05/20	12:40	50000.00	193.80	45,888	38	197	0.055	10.66	7573.71	3.79	0.69
03/09/20	12:10	50070.44	70.44	45,958	23	250	0.041	2.92	7576.62	3.79	
03/23/20	11:45	50083.25	12.81	45,971	25	323	0.060	0.76	7577.39	3.79	
04/06/20	10:30	50139.34	56.09	46,027	26	316	0.060	3.34	7580.73	3.79	
04/20/20	10:30	50225.20	85.86	46,113	19	408	0.056	4.84	7585.57	3.79	
05/05/20	11:00	50540.55	315.35	46,429	61	311	0.140	44.17	7629.74	3.81	1.06
05/18/20	12:30	50840.55	300.00	46,729	36	506	0.132	39.72	7669.46	3.83	
06/06/20	10:10	51279.56	439.01	47,168	47	340	0.118	51.71	7721.16	3.86	
06/20/20	13:20	51616.41	336.85	47,504	34	322	0.081	27.18	7748.35	3.87	
07/06/20	10:44	51998.22	381.81	47,886	0.5	425	0.002	0.60	7748.94	3.87	
07/19/20	11:10	52309.12	310.90	48,197	29	470	0.099	30.80	7779.75	3.89	0.51
08/09/20	17:30	52819.74	510.62	48,708	28	428	0.087	44.46	7824.20	3.91	
09/14/20	18:30	53480.00	660.26	49,368	25	421	0.076	50.19	7874.40	3.94	
09/24/20	13:20	53703.31	223.31	49,591	47	410	0.143	31.85	7906.25	3.95	
11/15/20	13:00	54664.23	960.92	50,552	38	418	0.116	111.61	8017.86	4.01	
12/11/20	8:27	55250.13	585.90	51,138	67	380	0.187	109.62	8127.48	4.06	1.36

Table 1 : Summary of SVE System Field Readings
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Date	Time	Run Time Reading	Operating Hours		Discharge Readings		VOC Discharge				Calculated Correlation Factor
			since last reading	Total	PPM	CFM	lbs/Hr	lbs since last Reading	Total lbs	Total Tons	
02/28/21	10:00	56876.10	1625.97	52,764	37	410	0.112	181.80	8309.28	4.15	0.36
03/02/21	14:05	56926.31	50.21	52,814	6.4	355	0.017	0.84	8310.12	4.16	
04/21/21	14:11	58101.61	1175.30	53,990	2.9	391	0.008	9.82	8319.94	4.16	0.07
05/13/21	13:42	58654.06	552.45	54,542	3.2	490	0.012	6.38	8326.32	4.16	
06/08/21	12:30	59275.70	621.64	55,164	31.0	460	0.105	65.34	8391.66	4.20	
09/09/21	12:50	60240.17	964.47	56,128	91.7	422	0.285	275.08	8666.74	4.33	1.53
09/24/21	12:30	60600.84	360.67	56,489	28.4	415	0.087	31.33	8698.07	4.35	
10/24/21	14:20	61323.92	723.08	57,212	23.7	312	0.055	39.41	8737.48	4.37	0.27
11/19/21	14:11	61946.79	622.87	57,835	26.1	402	0.077	48.17	8785.65	4.39	
12/07/21	12:30	62377.93	431.14	58,266	6.0	350	0.015	6.67	8792.32	4.40	
01/23/22	10:49	63503.18	1125.25	59,391	15.4	295	0.033	37.68	8830.00	4.42	1.38
02/16/22	11:30	64080.45	577.27	59,968	17.2	396	0.050	28.98	8858.98	4.43	
03/09/22	12:01	64561.31	480.86	60,449	16.7	383	0.047	22.67	8881.65	4.44	
03/27/22	9:05	65012.44	451.13	60,900	17.4	372	0.048	21.52	8903.17	4.45	
04/24/22	11:59	65684.16	671.72	61,572	14.1	317	0.033	22.13	8925.30	4.46	0.42
05/23/22	7:45	66388.40	704.24	62,276	17.1	205	0.026	18.20	8943.50	4.47	
06/21/22	12:15	67077.58	689.18	62,966	23.7	261	0.046	31.42	8974.92	4.49	
07/28/22	7:45	67970.01	892.43	63,858	16.5	217	0.026	23.55	8998.47	4.50	0.0002
08/28/22	9:11	68705.43	735.42	64,593	18.3	248	0.033	24.60	9023.07	4.51	
09/13/22	9:26	69088.00	382.57	64,976	60.0	233	0.103	39.42	9062.49	4.53	
09/15/22	8:23	69135.64	47.64	65,024	14.2	241	0.025	1.20	9063.69	4.53	0.51
10/29/22	11:02	70194.13	1058.49	66,082	19.2	240	0.034	35.95	9099.64	4.55	
11/27/22	11:11	70889.70	695.57	66,778	18.2	265	0.036	24.73	9124.37	4.56	
12/07/22	11:40	71129.09	239.39	67,017	17.2	224	0.028	6.80	9131.16	4.57	
01/29/23	11:00	72398.93	1509.23	68,287	16.5	255	0.031	46.80	9177.97	4.59	0.72
03/07/23	11:15	73288.13	889.20	69,176	23.7	250	0.044	38.83	9216.80	4.61	
04/22/23	11:24	74390.53	1102.40	70,279	12.4	488	0.045	49.17	9265.97	4.63	0.55
05/28/23	10:00	75276.92	886.39	71,165	12.3	453	0.041	36.40	9302.37	4.65	
06/13/23	15:05	75641.00	364.08	71,529	23.7	471	0.082	29.95	9332.32	4.67	
07/20/23	16:52	76531.81	890.81	72,420	14.8	489	0.053	47.52	9379.84	4.69	0.81
08/20/23	11:00	77271.00	739.19	73,159	14.8	425	0.046	34.27	9414.11	4.71	
09/06/23	12:30	77660.23	389.23	73,548	4.2	465	0.014	5.60	9419.71	4.71	
10/22/23	11:08	78783.33	1123.10	74,671	16.2	460	0.055	61.69	9481.40	4.74	0.81
11/12/23	10:15	79266.48	483.15	75,154	13.1	441	0.043	20.57	9501.97	4.75	
12/12/23	13:10	79989.39	722.91	75,877	4.7	462	0.016	11.57	9513.54	4.76	
01/13/24	11:00	80755.57	766.18	76,644	13.3	389	0.038	29.22	9542.76	4.77	0.68
02/17/24	10:00	81595.21	839.64	77,483	13.5	427	0.042	35.67	9578.43	4.79	
03/12/24	13:45	82172.95	577.74	78,061	6.2	408	0.019	10.77	9589.20	4.79	
04/27/24	9:00	83247.60	1074.65	79,136	10.5	485	0.038	40.34	9629.54	4.81	0.97
05/27/24	10:00	83992.91	745.31	79,881	9.4	508	0.035	26.23	9655.77	4.83	
06/18/24	14:00	84522.36	529.45	80,410	11.3	484	0.040	21.34	9677.11	4.84	
07/28/24	8:15	85473.92	951.56	81,362	9.4	494	0.034	32.57	9709.68	4.85	0.09
08/31/24	11:15	86293.03	819.11	82,181	9.3	485	0.033	27.23	9736.91	4.87	
09/06/24	11:00	86438.11	145.08	82,326	30.0	492	0.109	15.78	9752.69	4.88	
10/13/24	11:05	87324.86	886.75	83,213	8.7	421	0.027	23.94	9776.63	4.89	0.15
11/10/24	10:30	87997.33	672.47	83,885	6.7	480	0.024	15.94	9792.57	4.90	
11/21/24	12:10	88261.66	264.33	84,150	12.4	474	0.043	11.45	9804.02	4.90	
12/27/24	10:30	89125.09	863.43	85,013	10.5	395	0.031	26.39	9830.42	4.92	1.43
01/26/25	9:48	89844.55	719.46	85,733	9.9	434	0.032	22.78	9853.20	4.93	
02/10/25	8:18	90203.22	358.67	86,091	8.1	421	0.025	9.01	9862.22	4.93	
03/20/25	12:30	91119.22	916.00	87,007	2.1	438	0.007	6.21	9868.43	4.93	
04/18/25	8:30	91811.32	692.10	87,699	9.2	488	0.033	22.90	9891.33	4.95	
05/10/25	12:00	92340.00	528.68	88,228	8.6	422	0.027	14.14	9905.47	4.95	13.08
06/12/25	12:47	93141.00	801.00	89,029	2.6	449	0.009	6.90	9912.37	4.96	
07/07/25	10:40	93730.72	589.72	89,619	7.7	543	0.031	18.17	9930.54	4.97	
08/24/25	10:45	94879.84	1149.12	90,768	6.1	423	0.019	21.85	9952.39	4.98	0
09/23/25	11:45	95608.84	729.00	91,497	0.2	472	0.001	0.51	9952.90	4.98	

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Date	Time	Run Time Reading	Operating Hours		Discharge Readings		VOC Discharge				Calculated Correlation Factor
			since last reading	Total	PPM	CFM	lbs/Hr	lbs since last Reading	Total lbs	Total Tons	
10/25/25	12:45	96009.72	400.88	91,898	6.3	521	0.024	9.70	9962.60	4.98	
11/04/25	2:27	96612.56	602.84	92,501	7.0	180	0.009	5.60	9968.20	4.98	0.99
12/16/25	12:20	97629.56	1017.00	93,518	0.2	391	0.001	0.59	9968.78	4.98	
01/30/26	1:30	98697.50	1067.94	94,586	5.2	592	0.023	24.23	9993.01	5.00	
02/24/26	12:23	99298.41	600.91	95,186	4.9	725	0.026	15.73	10008.75	5.00	0
03/17/26	12:35	99811.41	513.00	95,699	0.4	569	0.002	0.86	10009.61	5.00	
							Corrected Total:		15,821.34	8.01	

Notes:

1. Color shading indicates air sampling period with a unique correlation factor.
2. During the June 24 & July 17, 2014 site visit the field readings were not recorded. The italicized values presented above for these dates are conservative estimated values based upon last known readings.

Table 2 : Summary of Laboratory Analytical Results for Discharge Air Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Parameters	Sample ID:	SVE	Canister #34000823 Serial C8528 2014-12-11	CANISTER #C8522	Canister #8408 2015-06-11 Air Sample	Canister #5451 Batch #320-14155 9-3-15	CANISTER #34000512 BATCH ID #320-15930	STATE M-1 LEASE	20160629 M SVE	20160922 M SVE	20161208 M SVE	20170309 M SVE	20170607M SVE	20170907 M SVE	20171206 -M-SVE	20180307-M-SVE
	Sample Date:	1-Aug-14	11-Dec-14	12-Mar-15	11-Jun-15	3-Sep-15	10-Dec-15	10-Mar-16	29-Jun-16	22-Sep-16	8-Dec-16	9-Mar-17	7-Jun-17	7-Sep-17	6-Dec-17	7-Mar-18
Volatile Organic Compounds (VOCs) by TO-15		*09/01/14*	*12/01/14*	*03/01/15*	*06/01/15*	*09/01/15*	*12/01/15*	*03/01/16*	*06/01/16*	*09/01/16*	*12/01/16*	*03/01/17*	*06/01/17*	*09/01/17*	*12/01/17*	*03/01/18*
Acetone	ppb v/v	<2000	<615	<965	<860	<615	<370	<915	<280	<175	<106	<203	<76.0	<116	<20.0	**5.67**
Benzene	ppb v/v	**8,820**	**2,960**	**533**	**3,630**	**312**	**194**	**1,070**	**2,600**	**853**	**373**	**550**	**180**	**143**	**1.77**	**24.5**
Benzyl chloride (α-Chlorotoluene)	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
Bromodichloromethane	ppb v/v	<120	<36.9	<57.9	<51.6	<36.9	<22.2	<54.9	<16.8	103.5	<6.33	<12.2	<4.56	<6.93	<1.20	<0.300
Bromoform	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Bromomethane	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
2-Butanone (MEK)	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	**178**	<3.20	<0.800
Carbon disulfide	ppb v/v	**1,800**	**272**	<154	<138	<98.4	<59.2	<146	**177**	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
Carbon tetrachloride	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
Chlorobenzene	ppb v/v	<120	<36.9	<57.9	<51.6	<36.9	<22.2	<54.9	<16.8	<10.5	<6.33	<12.2	<4.56	<6.93	<1.20	<0.300
Dibromochloromethane	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Chloroethane	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
Chloroform	ppb v/v	<120	<36.9	<57.9	<51.6	<36.9	<22.2	<54.9	<16.8	<10.5	<6.33	<12.2	<4.56	<6.93	<1.20	<0.300
Chloromethane	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
1,2-Dibromoethane	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
1,2-Dichlorobenzene	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
1,3-Dichlorobenzene	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
1,4-Dichlorobenzene	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Dichlorodifluoromethane	ppb v/v	**1,980**	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
1,1-Dichloroethane	ppb v/v	<120	<36.9	<57.9	<51.6	<36.9	<22.2	<54.9	<16.8	<10.5	<6.33	<12.2	<4.56	<6.93	<1.20	<0.300
1,2-Dichloroethane	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	**0.881**
1,1-Dichloroethene	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
cis-1,2-Dichloroethene	ppb v/v	<160	<49.2	**84.5**	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
trans-1,2-Dichloroethene	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
1,2-Dichloropropane	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
cis-1,3-Dichloropropene	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
trans-1,3-Dichloropropene	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Ethylbenzene	ppb v/v	**13,500**	**3,830**	**799**	**2,890**	**731**	**723**	**446**	**2,530**	**1,390**	**531**	**908**	**229**	**219**	**4.75**	**25.4**
4-Ethyltoluene	ppb v/v	**974**	**533**	**164**	**299**	**256**	**186**	<73.2	**660**	**497**	**135**	**263**	**58.5**	**45.1**	**2.38**	**3.74**
Hexachlorobutadiene	ppb v/v	<800	<246	<386	<344	<246	<148	<366	<112	<69.8	<42.2	<81.0	<30.4	<46.2	<8.00	<2.00
2-Hexanone	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Methylene Chloride	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	**0.540**
4-Methyl-2-pentanone	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Styrene	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
1,1,2,2-Tetrachloroethane	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	**41.1**	<14.0	<8.44	**20.0**	<6.08	<9.24	<1.60	<0.400
Tetrachloroethene	ppb v/v	<160	**71.9**	<77.2	<68.8	<49.2	<29.6	**92.9**	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Toluene	ppb v/v	**4,020**	**1,040**	**228**	**1,480**	<49.2	<29.6	**120**	**975**	**380**	**164**	**193**	**68.4**	**49.2**	<1.60	**6.92**
1,2,4-Trichlorobenzene	ppb v/v	<800	<246	<386	<344	<246	<148	<366	<112	<69.8	<42.2	<81.0	<30.4	<46.2	<8.00	<2.00
1,1,1-Trichloroethane	ppb v/v	<120	<36.9	<57.9	<51.6	<36.9	<22.2	<54.9	<16.8	<10.5	<6.33	<12.2	<4.56	<6.93	<1.20	<0.300
1,1,2-Trichloroethane	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Trichloroethene	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
Trichlorofluoromethane	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400

Table 2 : Summary of Laboratory Analytical Results for Discharge Air Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Parameters	Sample ID:	SVE	Canister #34000823 Serial C8528 2014-12-11	CANISTER #C8522	Canister #8408 2015-06-11 Air Sample	Canister #5451 Batch #320-14155 9-3-15	CANISTER #34000512 BATCH ID #320-15930	STATE M-1 LEASE	20160629 M SVE	20160922 M SVE	20161208 M SVE	20170309 M SVE	20170607M SVE	20170907 M SVE	20171206 -M-SVE	20180307-M-SVE
	Sample Date:	1-Aug-14	11-Dec-14	12-Mar-15	11-Jun-15	3-Sep-15	10-Dec-15	10-Mar-16	29-Jun-16	22-Sep-16	8-Dec-16	9-Mar-17	7-Jun-17	7-Sep-17	6-Dec-17	7-Mar-18
VOCs by TO-15, continued																
1,1,2-Trichloro-1,2,2-trifluoroethane	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.4	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
1,2,4-Trimethylbenzene	ppb v/v	**2,020**	**648**	**299**	**774**	<98.4	**355**	<146	**968**	**740**	**228**	**411**	**85.9**	**50.3**	**7.35**	**9.05**
1,3,5-Trimethylbenzene	ppb v/v	**821**	**385**	**172**	**353**	**73.0**	**247**	<73.2	**727**	**541**	**192**	**397**	**53.6**	**45.5**	**6.18**	**5.81**
Vinyl acetate	ppb v/v	<320	<98.4	<154	<138	<98.4	<59.2	<146	<44.8	<27.9	<16.9	<32.4	<12.2	<18.5	<3.20	<0.800
Vinyl chloride	ppb v/v	<160	<49.2	<77.2	<68.8	<49.2	<29.6	<73.2	<22.8	<14.0	<8.44	<16.2	<6.08	<9.24	<1.60	<0.400
m,p-Xylene	ppb v/v	**12,700**	**4,680**	**1,110**	**3,920**	**1,140**	**1,380**	**609**	**5,050**	**2,550**	**870**	**1,510**	**322**	**330**	**10.3**	**48.7**
o-Xylene	ppb v/v	**4,520**	**1,190**	**286**	**1,120**	**164**	**194**	**107**	**720**	**419**	**177**	**337**	**98.4**	**96.4**	**2.54**	**15.6**
Total VOC as Hexane (C6-C12)	ppb v/v	**1,060,000**	**655,000**	**99,400**	**351,000**	**190,000**	**140,000**	**371,000**	**590,000**	**262,000**	**117,000**	**167,000**	**54,500**	**40,900**	**4,630**	**9,930**

Table 2 : Summary of Laboratory Analytical Results for Discharge Air Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Parameters	Sample ID:	20180604-M-SVE	20180906-M-SVE	2018121-M-SVE	20190307 M SVE	20190905 M SVE	20200122 M1-SVE	20200305 M SVE	20200606-M-SVE	20200924M1SVE	20201211 M-1	20210302 M-1	20210608 M-1	20210908 M-1	20211207M-1	20220308 M-1
	Sample Date:	4-Jun-18	6-Sep-18	11-Dec-18	7-Mar-19	5-Sep-19	22-Jan-20	5-Mar-20	6-Jun-20	24-Sep-20	11-Dec-20	2-Mar-21	8-Jun-21	9-Sep-21	7-Dec-21	8-Mar-22
Volatile Organic Compounds (VOCs) by TO-15		*06/01/18*	*09/01/18*	*12/01/18*	*03/01/19*	*09/01/19*	*12/01/19*	*03/01/20*	*06/01/20*	*09/01/20*	*12/01/20*	*03/01/21*	*06/01/21*	*09/01/21*	*12/01/21*	*03/01/22*
Acetone	ppb v/v	<78.0	<124	<178	<22.3	<84	<17	<78	<34	<29	<110	<7.8	**16**	**92**	**8.6**	**30**
Benzene	ppb v/v	**87.9**	**112**	**137**	**40.1**	**140**	**3.7**	**42**	**48**	**18**	**80**	<0.78	<0.71	**71**	<0.75	<1.6
Benzyl chloride (α-Chlorotoluene)	ppb v/v	<12.5	<19.8	<28.4	<3.56	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Bromodichloromethane	ppb v/v	<4.68	<7.43	<10.7	<1.34	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Bromoform	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Bromomethane	ppb v/v	<12.5	<19.8	<28.4	<3.56	<84	<17	<78	<34	<29	<110	<7.8	<7.1	<8.0	<7.5	<16
2-Butanone (MEK)	ppb v/v	<12.5	<19.8	<28.4	**5.97**	<34	<6.7	<31	<34	<11	<43	<3.1	<2.8	**11**	<3.0	<6.2
Carbon disulfide	ppb v/v	<12.5	<19.8	<28.4	<3.56	<34	<6.7	<31	<34	<11	<43	<3.1	<2.8	**11**	<3.0	<6.2
Carbon tetrachloride	ppb v/v	<12.5	<19.8	<28.4	<3.56	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Chlorobenzene	ppb v/v	<4.68	<7.43	<10.7	<1.34	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Dibromochloromethane	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Chloroethane	ppb v/v	<12.5	<19.8	<28.4	<3.56	<34	<6.7	<31	<34	<11	<43	<3.1	<2.8	<3.2	<3.0	<6.2
Chloroform	ppb v/v	<4.68	<7.43	<10.7	<1.34	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Chloromethane	ppb v/v	<12.5	<19.8	<28.4	<3.56	<84	<17	<78	<34	<29	<110	<7.8	<7.1	<8.0	<7.5	<16
1,2-Dibromoethane	ppb v/v	<12.5	<19.8	<28.4	<3.56	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,2-Dichlorobenzene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,3-Dichlorobenzene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,4-Dichlorobenzene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Dichlorodifluoromethane	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,1-Dichloroethane	ppb v/v	<4.68	<7.43	<10.7	<1.34	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,2-Dichloroethane	ppb v/v	<12.5	<19.8	<28.4	<3.56	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,1-Dichloroethene	ppb v/v	<12.5	<19.8	<28.4	<3.56	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
cis-1,2-Dichloroethene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
trans-1,2-Dichloroethene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,2-Dichloropropane	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
cis-1,3-Dichloropropene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
trans-1,3-Dichloropropene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Ethylbenzene	ppb v/v	**250**	**334**	**363**	**284**	**270**	**33**	**120**	**150**	**56**	**180**	<0.78	<0.71	**88**	<0.75	**5.2**
4-Ethyltoluene	ppb v/v	**42.7**	**89.2**	**76.7**	**167**	**180**	**25**	**100**	**130**	**64**	**170**	**0.82**	<0.71	**140**	<0.75	**27**
Hexachlorobutadiene	ppb v/v	<31.2	<49.5	<71.0	<8.90	<34	<6.7	<31	<34	<11	<43	<3.1	<2.8	<3.2	<3.0	<6.2
2-Hexanone	ppb v/v	<4.68	<9.91	<14.2	<1.78	<34	<6.7	<31	<34	<11	<43	<3.1	<2.8	<3.2	<3.0	<6.2
Methylene Chloride	ppb v/v	<6.24	<9.91	<14.2	<1.78	<84	<17	<78	<34	<29	<110	<7.8	<7.1	<8.0	<7.5	<16
4-Methyl-2-pentanone	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Styrene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,1,2,2-Tetrachloroethane	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Tetrachloroethene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Toluene	ppb v/v	**34.4**	**44.3**	**41.0**	**38.8**	**30**	**3.1**	<7.8	**11**	**3.1**	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,2,4-Trichlorobenzene	ppb v/v	<31.2	<49.5	<71.0	<8.90	<34	<6.7	<31	<34	<11	<43	<3.1	<2.8	<3.2	<3.0	<6.2
1,1,1-Trichloroethane	ppb v/v	<4.68	<7.43	<10.7	<1.34	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,1,2-Trichloroethane	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Trichloroethene	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	**20**	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
Trichlorofluoromethane	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6

Table 2 : Summary of Laboratory Analytical Results for Discharge Air Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Parameters	Sample ID:	20180604-M-SVE	20180906-M-SVE	2018121-M-SVE	20190307 M SVE	20190905 M SVE	20200122 M1-SVE	20200305 M SVE	20200606-M-SVE	20200924M1SVE	20201211 M-1	20210302 M-1	20210608 M-1	20210908 M-1	20211207M-1	20220308 M-1
	Sample Date:	4-Jun-18	6-Sep-18	11-Dec-18	7-Mar-19	5-Sep-19	22-Jan-20	5-Mar-20	6-Jun-20	24-Sep-20	11-Dec-20	2-Mar-21	8-Jun-21	9-Sep-21	7-Dec-21	8-Mar-22
VOCs by TO-15, continued																
1,1,2-Trichloro-1,2,2-trifluoroethane	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
1,2,4-Trimethylbenzene	ppb v/v	**71.3**	**134**	**124**	**83.0**	**75**	**10**	**59**	**60**	**38**	**79**	<0.78	<0.71	**100**	**0.80**	**9.7**
1,3,5-Trimethylbenzene	ppb v/v	**46.2**	**88.6**	**102**	**67.0**	**69**	**9.1**	**43**	**50**	**31**	**77**	**1.0**	**1.3**	**110**	**1.3**	**14**
Vinyl acetate	ppb v/v	<12.5	<19.8	<28.4	<3.56	<8.4	<6.7	<31	<34	<11	<43	<3.1	<2.8	<3.2	<3.0	<6.2
Vinyl chloride	ppb v/v	<6.24	<9.91	<14.2	<1.78	<8.4	<1.7	<7.8	<8.4	<2.9	<11	<0.78	<0.71	<0.80	<0.75	<1.6
m,p-Xylene	ppb v/v	**376**	**501**	**544**	**442**	**440**	**66**	**210**	**280**	**110**	**380**	<0.78	<0.71	**260**	<0.75	**20**
o-Xylene	ppb v/v	**107**	**133**	**158**	**137**	**120**	**55**	**50**	**63**	**25**	**83**	<0.78	<0.71	**55**	<0.75	**4.0**
Total VOC as Hexane (C6-C12)	ppb v/v	**46,500**	**76,600**	**107,000**	**77,900**	**69,000**	**14,000**	**26,000**	**50,000**	**24,000**	**91,000**	**2,300**	**2,100**	**140,000**	**1,600**	**24,000**

Table 2 : Summary of Laboratory Analytical Results for Discharge Air Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Parameters	Sample ID:	20220621 M-1	202209_ _M-1	20221207 M-1	20230307 M-1	20230613M-1	20230906M-1	20231212 M-1	20240312M-1	20240618M-1	20240906 M-1	20241122M-1	20250320M-1
	Sample Date:	21-Jun-22	13-Sep-22	7-Dec-22	7-Mar-23	13-Jun-23	6-Sep-23	12-Dec-23	12-Mar-24	18-Jun-24	6-Sep-24	22-Nov-24	20-Mar-25
Volatile Organic Compounds (VOCs) by TO-15		*06/01/22*	*09/01/22*	*12/01/22*	*03/01/23*	*06/01/23*	*09/01/23*	*12/01/23*	*03/01/24*	*06/01/24*	*09/01/24*	*12/01/24*	*03/01/25*
Acetone	ppb v/v	<74	<7.1	<7.0	<32	**16**	**9.3**	**9.9**	**10**	<13	<10	<9.4	<8.4
Benzene	ppb v/v	<7.4	<0.71	**1.1**	<3.2	<1.6	<0.85	**1.8**	<0.76	<1.3	<1.0	<0.94	**1.2**
Benzyl chloride (α-Chlorotoluene)	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Bromodichloromethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Bromoform	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Bromomethane	ppb v/v	<74	<7.1	<7.0	<32	<16	<8.5	<8.0	<7.6	<13	<10	<9.4	<8.4
2-Butanone (MEK)	ppb v/v	<29	<2.8	<2.8	<13	<6.5	<3.4	<3.2	<3.0	<5.3	<4.2	<3.8	<3.4
Carbon disulfide	ppb v/v	<29	<2.8	<2.8	<13	<6.5	<3.4	<3.2	<3.0	<5.3	<4.2	<3.8	<3.4
Carbon tetrachloride	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Chlorobenzene	ppb v/v	<7.4	0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Dibromochloromethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Chloroethane	ppb v/v	<29	<2.8	<2.8	<13	<6.5	<3.4	<3.2	<3.0	<5.3	<4.2	<3.8	<3.4
Chloroform	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Chloromethane	ppb v/v	<74	<7.1	<7.0	<32	<16	<8.5	<8.0	<7.6	<13	<10	<9.4	<8.4
1,2-Dibromoethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,2-Dichlorobenzene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,3-Dichlorobenzene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,4-Dichlorobenzene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Dichlorodifluoromethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,1-Dichloroethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,2-Dichloroethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,1-Dichloroethene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
cis-1,2-Dichloroethene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
trans-1,2-Dichloroethene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,2-Dichloropropane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
cis-1,3-Dichloropropene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
trans-1,3-Dichloropropene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Ethylbenzene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	**0.82**	<0.76	<1.3	<1.0	<0.94	<0.84
4-Ethyltoluene	ppb v/v	**31**	<0.71	**7.9**	**18**	**10**	**3.7**	**1.9**	**2.0**	**2.0**	**1.7**	<0.94	**1.1**
Hexachlorobutadiene	ppb v/v	<29	<2.8	<2.8	<13	<6.5	<3.4	<3.2	<3.0	<5.3	<4.2	<3.8	<3.4
2-Hexanone	ppb v/v	<29	<2.8	<2.8	<13	<6.5	<3.4	<3.2	<3.0	<5.3	<4.2	<3.8	<3.4
Methylene Chloride	ppb v/v	<74	<7.1	<7.0	<32	<16	<8.5	<8.0	<7.6	<13	<10	<9.4	<8.4
4-Methyl-2-pentanone	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Styrene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,1,2,2-Tetrachloroethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Tetrachloroethene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Toluene	ppb v/v	<7.4	<0.71	**0.94**	<6.5	<3.2	<1.7	**2.6**	<1.5	<2.7	<2.1	<1.9	<1.7
1,2,4-Trichlorobenzene	ppb v/v	<29	<2.8	<2.8	<13	<6.5	<3.4	<3.2	<3.0	<5.3	<4.2	<3.8	<3.4
1,1,1-Trichloroethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,1,2-Trichloroethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Trichloroethene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Trichlorofluoromethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84

Table 2 : Summary of Laboratory Analytical Results for Discharge Air Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Parameters	Sample ID:	20220621 M-1	202209_ _M-1	20221207 M-1	20230307 M-1	20230613M-1	20230906M-1	20231212 M-1	20240312M-1	20240618M-1	20240906 M-1	20241122M-1	20250320M-1
	Sample Date:	21-Jun-22	13-Sep-22	7-Dec-22	7-Mar-23	13-Jun-23	6-Sep-23	12-Dec-23	12-Mar-24	18-Jun-24	6-Sep-24	22-Nov-24	20-Mar-25
VOCs by TO-15, continued													
1,1,2-Trichloro-1,2,2-trifluoroethane	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
1,2,4-Trimethylbenzene	ppb v/v	**19**	<0.71	**6.1**	**11**	**6.2**	**2.6**	**1.1**	**1.2**	<1.3	**1.1**	<0.94	<0.84
1,3,5-Trimethylbenzene	ppb v/v	**16**	<0.71	**6.5**	**17**	**9.3**	**4.3**	**1.6**	**2.0**	**2.0**	**1.6**	<0.94	**1.3**
Vinyl acetate	ppb v/v	<29	<2.8	<2.8	<13	<6.5	<3.4	<3.2	<3.0	<5.3	<4.2	<3.8	<3.4
Vinyl chloride	ppb v/v	<7.4	<2.8	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
m,p-Xylene	ppb v/v	**7.9**	<0.71	**2.1**	**5.8**	**3.6**	**1.2** J	**2.0**	<1.5	<2.7	<2.1	<1.9	**3.4**
o-Xylene	ppb v/v	<7.4	<0.71	<0.70	<3.2	<1.6	<0.85	<0.80	<0.76	<1.3	<1.0	<0.94	<0.84
Total VOC as Hexane (C6-C12)	ppb v/v	**10,000**	**14**	**8,800**	**17,000**	**13,000**	**3,400**	**3,800**	**4,200**	**3,200**	**2,800**	**1,900**	**3,000**

Table 2 : Summary of Laboratory Analytical Results for Discharge Air Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Parameters	Sample ID:	20250612M-1	20250912M-1	20251216M-1	20260317M-1
	Sample Date:	12-Jun-25	23-Sep-25	16-Dec-25	17-Mar-26
Volatile Organic Compounds (VOCs) by TO-15		*06/01/25*	*09/01/25*	*12/01/25*	*03/01/26*
Acetone	ppb v/v	<34	<9.0	<12.2	**28.7**
Benzene	ppb v/v	<9.2	<0.90	**2.76**	**1.63**
Benzyl chloride (α-Chlorotoluene)	ppb v/v	<9.2	<0.90	<1.22	<2.00
Bromodichloromethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
Bromoform	ppb v/v	<9.2	<0.90	<1.22	<1.00
Bromomethane	ppb v/v	<37	<9.0	<2.44	<1.00
2-Butanone (MEK)	ppb v/v	<37	<3.6	<4.88	**4.79**
Carbon disulfide	ppb v/v	<37	<3.6	<4.88	<1.00
Carbon tetrachloride	ppb v/v	<9.2	<0.90	<1.22	<1.00
Chlorobenzene	ppb v/v	<9.2	<0.90	<1.22	<1.00
Dibromochloromethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
Chloroethane	ppb v/v	<37	<3.6	<4.88	<1.00
Chloroform	ppb v/v	<9.2	<0.90	<1.22	<1.00
Chloromethane	ppb v/v	<37	<9.0	<12.2	<1.00
1,2-Dibromoethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,2-Dichlorobenzene	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,3-Dichlorobenzene	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,4-Dichlorobenzene	ppb v/v	<9.2	<0.90	<1.22	<1.00
Dichlorodifluoromethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,1-Dichloroethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,2-Dichloroethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,1-Dichloroethene	ppb v/v	<9.2	<0.90	<1.22	<1.00
cis-1,2-Dichloroethene	ppb v/v	<9.2	<0.90	<1.22	<1.00
trans-1,2-Dichloroethene	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,2-Dichloropropane	ppb v/v	<9.2	<0.90	<1.22	<1.00
cis-1,3-Dichloropropene	ppb v/v	<9.2	<0.90	<1.22	<1.00
trans-1,3-Dichloropropene	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
Ethylbenzene	ppb v/v	**10**	<0.90	<1.22	<1.00
4-Ethyltoluene	ppb v/v	<9.2	<0.90	<1.22	<1.00
Hexachlorobutadiene	ppb v/v	<37	<3.6	<4.88	<2.00
2-Hexanone	ppb v/v	<37	<3.6	<4.88	<2.00
Methylene Chloride	ppb v/v	<37	<9.0	<2.44	<2.00
4-Methyl-2-pentanone	ppb v/v	<37	<0.90	<1.22	<1.00
Styrene	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,1,2,2-Tetrachloroethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
Tetrachloroethene	ppb v/v	<9.2	<0.90	<1.22	<2.00
Toluene	ppb v/v	<9.2	<1.8	<2.44	<1.00
1,2,4-Trichlorobenzene	ppb v/v	<37	<3.6	<4.88	<2.00
1,1,1-Trichloroethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,1,2-Trichloroethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
Trichloroethene	ppb v/v	<9.2	<0.90	<1.22	<1.00
Trichlorofluoromethane	ppb v/v	<9.2	<0.90	<1.22	<1.00

Table 2 : Summary of Laboratory Analytical Results for Discharge Air Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Parameters	Sample ID:	20250612M-1	20250912M-1	20251216M-1	20260317M-1
	Sample Date:	12-Jun-25	23-Sep-25	16-Dec-25	17-Mar-26
VOCs by TO-15, continued					
1,1,2-Trichloro-1,2,2-trifluoroethane	ppb v/v	<9.2	<0.90	<1.22	<1.00
1,2,4-Trimethylbenzene	ppb v/v	**18**	<0.90	<1.22	<2.00
1,3,5-Trimethylbenzene	ppb v/v	**34**	<0.90	<1.22	<2.00
Vinyl acetate	ppb v/v	<37	<3.6	<4.88	<2.52
Vinyl chloride	ppb v/v	<9.2	<0.90	<1.22	<1.00
m,p-Xylene	ppb v/v	**90**	<1.8	<2.44	<1.00
o-Xylene	ppb v/v	13	<0.90	<1.22	<1.00
Total VOC as Hexane (C6-C12)	ppb v/v	**34,000**	<18	**198**	<12.6

Table 3 : Summary of Liquid Level Measurements
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Monitoring Well	Top of Casing Elevation (AMSL-Feet)	Depth to Liquid Measurement Date	Depth to LNAPL (Feet-TOC)	Depth to Groundwater (Feet-TOC)	LNAPL Thickness (Feet)	Groundwater Elevation (AMSL-Feet)
MW-1R	3888.97	06/03/14	44.57	49.89	5.32	3839.08
	3888.97	09/22/14	44.87	48.91	4.04	3840.06
	3888.97	12/10/14	45.80	46.30	0.50	3842.67
	3888.97	03/11/15	45.12	46.83	1.71	3842.14
	3888.97	06/10/15	45.54	46.31	0.77	3842.66
	3888.97	09/02/15	45.81	47.37	1.56	3841.60
	3888.97	12/09/15	45.22	49.07	3.85	3839.90
	3888.97	03/09/16	45.30	47.18	1.88	3841.79
	3888.97	06/28/16	45.75	47.02	1.27	3841.95
	3888.97	09/21/16	46.10	46.38	0.28	3842.59
	3888.97	12/07/16	46.13	46.88	0.75	3842.09
	3888.97	03/08/17	46.14	46.57	0.43	3842.40
	3888.97	06/06/17	45.82	48.86	3.04	3840.11
	3888.97	09/08/17	46.30	46.63	0.33	3842.34
	3888.97	12/04/17	46.36	46.77	0.41	3842.20
	3888.97	03/05/18	46.47	46.81	0.34	3842.16
	3888.97	06/05/18	46.56	46.93	0.37	3842.04
	3888.97	09/05/18	46.31	48.81	2.50	3840.16
	3888.97	12/11/18	46.34	49.11	2.77	3839.86
	3888.97	03/06/19	46.48	49.20	2.72	3839.77
	3888.97	06/04/19	46.58	48.84	2.26	3840.13
	3888.97	09/04/19	47.88	48.67	0.79	3840.30
	3888.97	12/06/19	47.13	47.43	0.30	3841.54
	3888.97	03/05/20	47.11	47.68	0.57	3841.29
	3888.97	06/06/20	47.21	47.45	0.24	3841.52
	3888.97	09/24/20	47.44	47.60	0.16	3841.37
	3888.97	12/10/20	47.51	47.69	0.18	3841.28
	3888.97	03/02/21	47.48	47.58	0.10	3841.39
	3888.97	06/08/21	47.52	48.30	0.78	3840.67
	3888.97	09/08/21	47.73	48.00	0.27	3840.97
	3888.97	12/07/21	47.87	48.03	0.16	3840.94
	3888.97	03/08/22	47.84	47.98	0.14	3840.99
	3888.97	06/21/22	48.06	48.11	0.05	3840.86
	3888.97	09/13/22	48.23	48.53	0.30	3840.44
	3888.97	12/07/22	48.38	48.52	0.14	3840.45
	3888.97	03/07/23	48.44	48.52	0.08	3840.45
	3888.97	06/13/23	---	48.45	0.00	3840.52
	3888.97	09/06/23	---	48.66	0.00	3840.31
	3888.97	12/12/23	48.98	48.99	0.01	3839.98
	3888.97	03/12/24	49.18	49.23	0.05	3839.74
	3888.97	06/18/24	49.73	49.98	0.25	3838.99
	3888.97	09/06/24	49.80	49.87	0.07	3839.10
	3888.97	11/21/24	49.56	49.60	0.04	3839.37
	3888.97	03/20/25	---	49.51	0.00	3839.46
	3888.97	06/12/25	---	50.69	0.00	3838.28
	3888.97	09/23/25	50.22	50.23	0.01	3838.74
	3888.97	12/16/25	51.15	51.45	0.30	3837.52
	3888.97	03/17/26	51.18	52.10	0.92	3836.87

Table 3 : Summary of Liquid Level Measurements
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Monitoring Well	Top of Casing Elevation (AMSL-Feet)	Depth to Liquid Measurement Date	Depth to LNAPL (Feet-TOC)	Depth to Groundwater (Feet-TOC)	LNAPL Thickness (Feet)	Groundwater Elevation (AMSL-Feet)
MW-2	3890.51	06/03/14	---	47.23	---	3843.28
	3890.51	09/22/14	---	46.37	---	3844.14
	3890.51	12/10/14	---	45.91	---	3844.60
	3890.51	03/11/15	---	46.03	---	3844.48
	3890.51	06/10/15	---	46.38	---	3844.13
	3890.51	09/02/15	---	46.44	---	3844.07
	3890.51	12/09/15	---	46.51	---	3844.00
	3890.51	03/09/16	---	46.61	---	3843.90
	3890.51	06/28/16	---	46.70	---	3843.81
	3890.51	09/21/16	---	46.80	---	3843.71
	3890.51	12/07/16	---	46.82	---	3843.69
	3890.51	03/08/17	---	46.88	---	3843.63
	3890.51	06/06/17	---	46.98	---	3843.53
	3890.51	09/08/17	---	47.06	---	3843.45
	3890.51	12/04/17	---	47.11	---	3843.40
	3890.51	03/05/18	---	47.22	---	3843.29
	3890.51	06/05/18	---	47.31	---	3843.20
	3890.51	09/05/18	---	47.36	---	3843.15
	3890.51	12/11/18	---	47.46	---	3843.05
	3890.51	03/06/19	---	47.51	---	3843.00
	3890.51	06/04/19	---	47.61	---	3842.90
	3890.51	09/04/19	---	47.76	---	3842.75
	3890.51	12/06/19	---	47.81	---	3842.70
	3890.51	03/05/20	---	47.91	---	3842.60
	3890.51	06/06/20	---	49.98	---	3840.53
	3890.51	09/24/20	---	48.14	---	3842.37
	3890.51	12/10/20	---	48.21	---	3842.30
	3890.51	03/02/21	---	48.25	---	3842.26
	3890.51	06/08/21	---	48.31	---	3842.20
	3890.51	09/08/21	---	48.41	---	3842.10
	3890.51	12/07/21	---	48.51	---	3842.00
	3890.51	03/08/22	---	48.58	---	3841.93
	3890.51	06/21/22	---	48.72	---	3841.79
	3890.51	09/13/22	---	48.82	---	3841.69
	3890.51	12/07/22	---	48.90	---	3841.61
	3890.51	03/07/23	---	49.00	---	3841.51
	3890.51	06/13/23	---	49.18	---	3841.33
	3890.51	09/06/23	---	49.23	---	3841.28
	3890.51	12/12/23	---	49.53	---	3840.98
	3890.51	03/12/24	---	49.74	---	3840.77
	3890.51	06/18/24	---	50.18	---	3840.33
	3890.51	09/06/24	---	50.01	---	3840.50
	3890.51	11/21/24	---	50.10	---	3840.41
	3890.51	03/20/25	---	50.12	---	3840.39
	3890.51	06/12/25	---	51.12	---	3839.39
	3890.51	09/23/25	---	50.79	---	3839.72
	3890.51	12/16/25	---	51.72	---	3838.79
	3890.51	03/17/26	---	51.80	---	3838.71

Table 3 : Summary of Liquid Level Measurements
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Monitoring Well	Top of Casing Elevation (AMSL-Feet)	Depth to Liquid Measurement Date	Depth to LNAPL (Feet-TOC)	Depth to Groundwater (Feet-TOC)	LNAPL Thickness (Feet)	Groundwater Elevation (AMSL-Feet)
MW-3	3889.34	06/03/14	---	46.35	---	3842.99
	3889.34	09/22/14	---	46.49	---	3842.85
	3889.34	12/10/14	---	46.08	---	3843.26
	3889.34	03/11/15	---	46.28	---	3843.06
	3889.34	06/10/15	---	46.51	---	3842.83
	3889.34	09/02/15	---	46.60	---	3842.74
	3889.34	12/09/15	---	46.68	---	3842.66
	3889.34	03/09/16	---	46.72	---	3842.62
	3889.34	06/28/16	---	46.85	---	3842.49
	3889.34	09/21/16	---	46.96	---	3842.38
	3889.34	12/07/16	---	47.02	---	3842.32
	3889.34	03/08/17	---	47.11	---	3842.23
	3889.34	06/06/17	---	47.13	---	3842.21
	3889.34	09/08/17	---	47.23	---	3842.11
	3889.34	12/04/17	---	47.28	---	3842.06
	3889.34	03/05/18	---	47.44	---	3841.90
	3889.34	06/05/18	---	47.48	---	3841.86
	3889.34	09/05/18	---	47.55	---	3841.79
	3889.34	12/11/18	---	47.60	---	3841.74
	3889.34	03/06/19	---	47.68	---	3841.66
	3889.34	06/04/19	---	47.80	---	3841.54
	3889.34	09/04/19	---	47.95	---	3841.39
	3889.34	12/06/19	---	48.00	---	3841.34
	3889.34	03/05/20	---	48.03	---	3841.31
	3889.34	06/06/20	---	48.16	---	3841.18
	3889.34	09/24/20	---	48.34	---	3841.00
	3889.34	12/10/20	---	48.42	---	3840.92
	3889.34	03/02/21	---	48.42	---	3840.92
	3889.34	06/08/21	---	48.50	---	3840.84
	3889.34	09/08/21	---	48.60	---	3840.74
	3889.34	12/07/21	---	48.71	---	3840.63
	3889.34	03/08/22	---	48.74	---	3840.60
	3889.34	06/21/22	---	48.89	---	3840.45
	3889.34	09/13/22	---	49.02	---	3840.32
	3889.34	12/07/22	---	49.10	---	3840.24
	3889.34	03/07/23	---	49.22	---	3840.12
	3889.34	06/13/23	---	49.27	---	3840.07
	3889.34	09/06/23	---	49.45	---	3839.89
	3889.34	12/12/23	---	49.77	---	3839.57
	3889.34	03/12/24	---	50.00	---	3839.34
	3889.34	06/18/24	---	50.42	---	3838.92
	3889.34	09/06/24	---	50.20	---	3839.14
	3889.34	11/21/24	---	50.31	---	3839.03
	3889.34	03/20/25	---	50.36	---	3838.98
	3889.34	06/12/25	---	51.43	---	3837.91
	3889.34	09/23/25	---	51.04	---	3838.30
	3889.34	12/16/25	---	52.01	---	3837.33
	3889.34	03/17/26	---	52.05	---	3837.29

Table 3 : Summary of Liquid Level Measurements
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Monitoring Well	Top of Casing Elevation (AMSL-Feet)	Depth to Liquid Measurement Date	Depth to LNAPL (Feet-TOC)	Depth to Groundwater (Feet-TOC)	LNAPL Thickness (Feet)	Groundwater Elevation (AMSL-Feet)
MW-4	3888.90	06/03/14	---	46.38	---	3842.52
	3888.90	09/22/14	---	46.50	---	3842.40
	3888.90	12/10/14	---	46.14	---	3842.76
	3888.90	03/11/15	---	46.35	---	3842.55
	3888.90	06/10/15	---	46.49	---	3842.41
	3888.90	09/02/15	---	46.57	---	3842.33
	3888.90	12/09/15	---	46.68	---	3842.22
	3888.90	03/09/16	---	46.75	---	3842.15
	3888.90	06/28/16	---	46.87	---	3842.03
	3888.90	09/21/16	---	46.94	---	3841.96
	3888.90	12/07/16	---	47.03	---	3841.87
	3888.90	03/08/17	---	47.08	---	3841.82
	3888.90	06/06/17	---	47.15	---	3841.75
	3888.90	09/08/17	---	47.24	---	3841.66
	3888.90	12/04/17	---	47.29	---	3841.61
	3888.90	03/05/18	---	47.38	---	3841.52
	3888.90	06/05/18	---	47.50	---	3841.40
	3888.90	09/05/18	---	47.53	---	3841.37
	3888.90	12/11/18	---	47.62	---	3841.28
	3888.90	03/06/19	---	47.72	---	3841.18
	3888.90	06/04/19	---	47.80	---	3841.10
	3888.90	09/04/19	---	47.98	---	3840.92
	3888.90	12/06/19	---	48.00	---	3840.90
	3888.90	03/05/20	---	48.07	---	3840.83
	3888.90	06/06/20	---	48.20	---	3840.70
	3888.90	09/24/20	---	48.32	---	3840.58
	3888.90	12/10/20	---	48.39	---	3840.51
	3888.90	03/02/21	---	48.44	---	3840.46
	3888.90	06/08/21	---	48.55	---	3840.35
	3888.90	09/08/21	---	48.60	---	3840.30
	3888.90	12/07/21	---	48.72	---	3840.18
	3888.90	03/08/22	---	48.80	---	3840.10
	3888.90	06/21/22	---	48.92	---	3839.98
	3888.90	09/13/22	---	49.02	---	3839.88
	3888.90	12/07/22	---	49.06	---	3839.84
	3888.90	03/07/23	---	49.17	---	3839.73
	3888.90	06/13/23	---	49.27	---	3839.63
	3888.90	09/06/23	---	49.43	---	3839.47
	3888.90	12/12/23	---	50.02	---	3838.88
	3888.90	03/12/24	---	50.09	---	3838.81
	3888.90	06/18/24	---	50.54	---	3838.36
	3888.90	09/06/24	---	50.30	---	3838.60
	3888.90	11/21/24	---	50.41	---	3838.49
	3888.90	03/20/25	---	50.44	---	3838.46
	3888.90	06/12/25	---	52.06	---	3836.84
	3888.90	09/23/25	---	51.14	---	3837.76
	3888.90	12/16/25	---	52.40	---	3836.50
	3888.90	03/17/26	---	52.38	---	3836.52

Table 3 : Summary of Liquid Level Measurements
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Monitoring Well	Top of Casing Elevation (AMSL-Feet)	Depth to Liquid Measurement Date	Depth to LNAPL (Feet-TOC)	Depth to Groundwater (Feet-TOC)	LNAPL Thickness (Feet)	Groundwater Elevation (AMSL-Feet)
MW-5	3890.41	06/03/14	---	46.56	---	3843.85
	3890.41	09/22/14	---	46.70	---	3843.71
	3890.41	12/10/14	---	46.29	---	3844.12
	3890.41	03/11/15	---	46.44	---	3843.97
	3890.41	06/10/15	---	46.69	---	3843.72
	3890.41	09/02/15	---	46.79	---	3843.62
	3890.41	12/09/15	---	46.85	---	3843.56
	3890.41	03/09/16	---	46.90	---	3843.51
	3890.41	06/28/16	---	47.08	---	3843.33
	3890.41	09/21/16	---	47.13	---	3843.28
	3890.41	12/07/16	---	47.14	---	3843.27
	3890.41	03/08/17	---	47.23	---	3843.18
	3890.41	06/06/17	---	47.32	---	3843.09
	3890.41	09/08/17	---	47.40	---	3843.01
	3890.41	12/04/17	---	47.27	---	3843.14
	3890.41	03/05/18	---	47.54	---	3842.87
	3890.41	06/05/18	---	47.66	---	3842.75
	3890.41	09/05/18	---	47.72	---	3842.69
	3890.41	12/11/18	---	47.80	---	3842.61
	3890.41	03/06/19	---	47.85	---	3842.56
	3890.41	06/04/19	---	47.98	---	3842.43
	3890.41	09/04/19	---	48.15	---	3842.26
	3890.41	12/06/19	---	48.17	---	3842.24
	3890.41	03/05/20	---	48.23	---	3842.18
	3890.41	06/06/20	---	48.33	---	3842.08
	3890.41	09/24/20	---	48.51	---	3841.90
	3890.41	12/10/20	---	48.60	---	3841.81
	3890.41	03/02/21	---	48.60	---	3841.81
	3890.41	06/08/21	---	48.66	---	3841.75
	3890.41	09/08/21	---	48.76	---	3841.65
	3890.41	12/07/21	---	48.90	---	3841.51
	3890.41	03/08/22	---	48.90	---	3841.51
	3890.41	06/21/22	---	49.09	---	3841.32
	3890.41	09/13/22	---	49.19	---	3841.22
	3890.41	12/07/22	---	49.28	---	3841.13
	3890.41	03/07/23	---	49.38	---	3841.03
	3890.41	06/13/23	---	49.43	---	3840.98
	3890.41	09/06/23	---	49.64	---	3840.77
	3890.41	12/12/23	---	49.84	---	3840.57
	3890.41	03/12/24	---	50.12	---	3840.29
	3890.41	06/18/24	---	50.52	---	3839.89
	3890.41	09/06/24	---	50.39	---	3840.02
	3890.41	11/21/24	---	50.42	---	3839.99
	3890.41	03/20/25	---	50.49	---	3839.92
	3890.41	06/12/25	---	51.31	---	3839.10
	3890.41	09/23/25	---	51.15	---	3839.26
	3890.41	12/16/25	---	51.97	---	3838.44
	3890.41	03/17/26	---	52.08	---	3838.33

Table 3 : Summary of Liquid Level Measurements
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Monitoring Well	Top of Casing Elevation (AMSL-Feet)	Depth to Liquid Measurement Date	Depth to LNAPL (Feet-TOC)	Depth to Groundwater (Feet-TOC)	LNAPL Thickness (Feet)	Groundwater Elevation (AMSL-Feet)
MW-6	3888.25	06/03/14	---	46.25	---	3842.00
	3888.25	09/22/14	---	46.39	---	3841.86
	3888.25	12/10/14	---	46.09	---	3842.16
	3888.25	03/11/15	---	46.23	---	3842.02
	3888.25	06/10/15	---	46.32	---	3841.93
	3888.25	09/02/15	---	46.48	---	3841.77
	3888.25	12/09/15	---	46.57	---	3841.68
	3888.25	03/09/16	---	46.62	---	3841.63
	3888.25	06/28/16	---	46.74	---	3841.51
	3888.25	09/21/16	---	46.81	---	3841.44
	3888.25	12/07/16	---	46.90	---	3841.35
	3888.25	03/08/17	---	46.93	---	3841.32
	3888.25	06/06/17	---	47.08	---	3841.17
	3888.25	09/08/17	---	47.12	---	3841.13
	3888.25	12/04/17	---	47.21	---	3841.04
	3888.25	03/05/18	---	47.30	---	3840.95
	3888.25	06/05/18	---	47.36	---	3840.89
	3888.25	09/05/18	---	47.43	---	3840.82
	3888.25	12/11/18	---	47.52	---	3840.73
	3888.25	03/06/19	---	47.60	---	3840.65
	3888.25	06/04/19	---	47.71	---	3840.54
	3888.25	09/04/19	---	47.81	---	3840.44
	3888.25	12/06/19	---	47.90	---	3840.35
	3888.25	03/05/20	---	47.98	---	3840.27
	3888.25	06/06/20	---	48.08	---	3840.17
	3888.25	09/24/20	---	48.23	---	3840.02
	3888.25	12/10/20	---	48.28	---	3839.97
	3888.25	03/02/21	---	48.33	---	3839.92
	3888.25	06/08/21	---	48.48	---	3839.77
	3888.25	09/08/21	---	48.50	---	3839.75
	3888.25	12/07/21	---	48.60	---	3839.65
	3888.25	03/08/22	---	48.67	---	3839.58
	3888.25	06/21/22	---	48.82	---	3839.43
	3888.25	09/13/22	---	48.91	---	3839.34
	3888.25	12/07/22	---	49.01	---	3839.24
	3888.25	03/07/23	---	49.06	---	3839.19
	3888.25	06/13/23	---	49.17	---	3839.08
	3888.25	09/06/23	---	49.30	---	3838.95
	3888.25	12/12/23	---	50.21	---	3838.04
	3888.25	03/12/24	---	50.07	---	3838.18
	3888.25	06/18/24	---	50.62	---	3837.63
	3888.25	09/06/24	---	50.23	---	3838.02
	3888.25	11/21/24	---	50.42	---	3837.83
	3888.25	03/20/25	---	50.51	---	3837.74
	3888.25	06/12/25	---	52.80	---	3835.45
	3888.25	09/23/25	---	51.12	---	3837.13
	3888.25	12/16/25	---	52.79	---	3835.46
	3888.25	03/17/26	---	52.64	---	3835.61

Table 3 : Summary of Liquid Level Measurements
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Monitoring Well	Top of Casing Elevation (AMSL-Feet)	Depth to Liquid Measurement Date	Depth to LNAPL (Feet-TOC)	Depth to Groundwater (Feet-TOC)	LNAPL Thickness (Feet)	Groundwater Elevation (AMSL-Feet)
MW-7	3889.23	06/03/14	---	45.94	---	3843.29
	3889.23	09/22/14	---	46.08	---	3843.15
	3889.23	12/10/14	---	45.70	---	3843.53
	3889.23	03/11/15	---	45.36	---	3843.87
	3889.23	06/10/15	---	46.08	---	3843.15
	3889.23	09/02/15	---	46.14	---	3843.09
	3889.23	12/09/15	---	46.24	---	3842.99
	3889.23	03/09/16	---	46.30	---	3842.93
	3889.23	06/28/16	---	46.42	---	3842.81
	3889.23	09/21/16	---	46.52	---	3842.71
	3889.23	12/07/16	---	46.59	---	3842.64
	3889.23	03/08/17	---	46.65	---	3842.58
	3889.23	06/06/17	---	46.73	---	3842.50
	3889.23	09/08/17	---	46.80	---	3842.43
	3889.23	12/04/17	---	46.88	---	3842.35
	3889.23	03/05/18	---	46.96	---	3842.27
	3889.23	06/05/18	---	47.04	---	3842.19
	3889.23	09/05/18	---	47.11	---	3842.12
	3889.23	12/11/18	---	47.20	---	3842.03
	3889.23	03/06/19	---	47.27	---	3841.96
	3889.23	06/04/19	---	47.37	---	3841.86
	3889.23	09/04/19	---	47.50	---	3841.73
	3889.23	12/06/19	---	47.58	---	3841.65
	3889.23	03/05/20	---	47.66	---	3841.57
	3889.23	06/06/20	---	47.72	---	3841.51
	3889.23	09/24/20	---	47.90	---	3841.33
	3889.23	12/10/20	---	47.96	---	3841.27
	3889.23	03/02/21	---	48.02	---	3841.21
	3889.23	06/08/21	---	48.06	---	3841.17
	3889.23	09/08/21	---	48.14	---	3841.09
	3889.23	12/07/21	---	48.26	---	3840.97
	3889.23	03/08/22	---	48.33	---	3840.90
	3889.23	06/21/22	---	48.44	---	3840.79
	3889.23	09/13/22	---	48.58	---	3840.65
	3889.23	12/07/22	---	48.70	---	3840.53
	3889.23	03/07/23	---	48.75	---	3840.48
	3889.23	06/13/23	---	48.83	---	3840.40
	3889.23	09/06/23	---	48.97	---	3840.26
	3889.23	12/12/23	---	49.55	---	3839.68
	3889.23	03/12/24	---	49.64	---	3839.59
	3889.23	06/18/24	---	50.11	---	3839.12
	3889.23	09/06/24	---	49.80	---	3839.43
	3889.23	11/21/24	---	49.96	---	3839.27
	3889.23	03/20/25	---	49.98	---	3839.25
	3889.23	06/12/25	---	51.55	---	3837.68
	3889.23	09/23/25	---	50.66	---	3838.57
	3889.23	12/16/25	---	51.94	---	3837.29
	3889.23	03/17/26	---	51.93	---	3837.30

Table 3 : Summary of Liquid Level Measurements
Chesapeake Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

Monitoring Well	Top of Casing Elevation (AMSL-Feet)	Depth to Liquid Measurement Date	Depth to LNAPL (Feet-TOC)	Depth to Groundwater (Feet-TOC)	LNAPL Thickness (Feet)	Groundwater Elevation (AMSL-Feet)
MW-8	3887.06	06/03/14	---	44.94	---	3842.12
	3887.06	09/22/14	---	45.11	---	3841.95
	3887.06	12/10/14	---	44.79	---	3842.27
	3887.06	03/11/15	---	44.94	---	3842.12
	3887.06	06/10/15	---	45.22	---	3841.84
	3887.06	09/02/15	---	45.21	---	3841.85
	3887.06	12/09/15	---	45.29	---	3841.77
	3887.06	03/09/16	---	45.35	---	3841.71
	3887.06	06/28/16	---	45.56	---	3841.50
	3887.06	09/21/16	---	45.67	---	3841.39
	3887.06	12/07/16	---	45.64	---	3841.42
	3887.06	03/08/17	---	45.68	---	3841.38
	3887.06	06/06/17	---	45.78	---	3841.28
	3887.06	09/08/17	---	45.82	---	3841.24
	3887.06	12/04/17	---	45.91	---	3841.15
	3887.06	03/05/18	---	46.03	---	3841.03
	3887.06	06/05/18	---	46.12	---	3840.94
	3887.06	09/05/18	---	46.16	---	3840.90
	3887.06	12/11/18	---	46.26	---	3840.80
	3887.06	03/06/19	---	46.33	---	3840.73
	3887.06	06/04/19	---	46.42	---	3840.64
	3887.06	09/04/19	---	46.53	---	3840.53
	3887.06	12/06/19	---	46.62	---	3840.44
	3887.06	03/05/20	---	46.71	---	3840.35
	3887.06	06/06/20	---	46.79	---	3840.27
	3887.06	09/24/20	---	46.95	---	3840.11
	3887.06	12/10/20	---	47.02	---	3840.04
	3887.06	03/02/21	---	47.06	---	3840.00
	3887.06	06/08/21	---	47.21	---	3839.85
	3887.06	09/08/21	---	47.25	---	3839.81
	3887.06	12/07/21	---	47.36	---	3839.70
	3887.06	03/08/22	---	47.41	---	3839.65
	3887.06	06/21/22	---	47.55	---	3839.51
	3887.06	09/13/22	---	47.66	---	3839.40
	3887.06	12/07/22	---	47.75	---	3839.31
	3887.06	03/07/23	---	47.82	---	3839.24
	3887.06	06/13/23	---	47.92	---	3839.14
	3887.06	09/06/23	---	48.11	---	3838.95
	3887.06	12/12/23	---	48.75	---	3838.31
	3887.06	03/12/24	---	48.80	---	3838.26
	3887.06	06/18/24	---	49.25	---	3837.81
	3887.06	09/06/24	---	48.93	---	3838.13
	3887.06	11/21/24	---	49.07	---	3837.99
	3887.06	03/20/25	---	49.11	---	3837.95
	3887.06	06/12/25	---	50.94	---	3836.12
	3887.06	09/23/25	---	49.79	---	3837.27
	3887.06	12/16/25	---	51.13	---	3835.93
	3887.06	03/17/26	---	51.12	---	3835.94

Notes:

1. TOC : Measured from top of casing.
2. LNAPL : Light non-aqueous phase liquid.
3. --- : Denotes no apparent thickness of LNAPL observed.
4. AMSL : Denotes above mean sea level (AMSL).

Table 4 : Summary of Laboratory Analytical Results for Chloride in Groundwater Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

	Chloride (mg/L)										
	June 2014	Sept. 2014	Dec. 2014	March 2015	June 2015	Sept. 2015	Dec. 2015	March 2016	June 2016	Sept. 2016	Dec. 2016
MW-1R	---	51.4	116	39.0	24.6	21.6	23.5	34.8	24.9	28.5	44.8
MW-2	17.7	17.4	18.3	16.6	16.8	16.6	15.4 *	13.5	18.9	17.6	18.2
MW-3	59.7	59.7	58.9	57.0	57.1	56.3	50.5 *	49.3	51.5	52.0	55.1
MW-4	**586**	**534**	**535**	**543**	**556**	**567**	**546 ***	**525**	**527**	**569**	**605**
MW-5	28.6	27.3	27.9	26.1	26.2	25.8	22.4 *	22.4	26.1	26.2	27.8
MW-6	**282**	**263**	**268**	**261**	**253**	**277**	197 *	150	128	128	125
MW-7	42.7	29.6	36.0	39.7	36.2	35.2	28.8 *	27.7	36.0	38.2	39.6
MW-8	**409**	**442**	**463**	**485**	**558**	**327**	**499**	**504**	**539**	**490**	**768**

Notes:

1. mg/L : milligrams per liter.
2. < : Analyte not detected at the laboratory reporting limit (RL).
3. All analyses performed by TestAmerica Laboratories in Nashville, Tennessee.
4. Cells shaded in blue indicate results that are above the laboratory RL.
5. Cells with text bolded indicate results that exceed the New Mexico Administrative Code (NMAC) 20.6.2.3103, Standards for Groundwater: 10,000 mg/L total dissolved solids (TDS) and 250.0 mg/L chloride.
6. --- : Analysis not performed.
7. * : Analysis performed outside of holding time.
8. December 2016 results for MW-1R and MW-8 were confirmed by laboratory reanalysis.
9. Sample MW-1R was collected in December 2017 under sample ID MW-R1 as shown on the COC and in the field book.
10. Beginning with the September 2019 sampling event, Eurofins (Edison, NJ) became the Project Laboratory.

Table 4 : Summary of Laboratory Analytical Results for Chloride in Groundwater Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

	Chloride (mg/L)										
	June 2017	Sept. 2017	Dec. 2017	March 2018	June 2018	Sept. 2018	Dec. 2018	March 2019	June 2019	Sept. 2019	Dec. 2019
MW-1R	28.6	29.3	29.0	33.7	---	---	---	---	---	---	---
MW-2	15.9	15.2	16.2	16.6	---	---	---	---	---	---	---
MW-3	53.7	49.5	58.1	64.3	---	---	---	---	---	---	---
MW-4	**493**	**465**	**492**	**484**	**413**	**387**	**373**	**617**	**392**	**404**	**421**
MW-5	24.7	20.4	25.4	25.9	---	---	---	---	---	---	---
MW-6	86.3	79.3	71.8	64.7	---	---	---	---	---	---	---
MW-7	23.8	24.0	27.7	31.6	---	---	---	---	---	---	---
MW-8	**531**	**573**	**570**	**587**	**539**	**398**	**474**	**308**	**283**	223	198

Notes:

1. mg/L : milligrams per liter.
2. < : Analyte not detected at the laboratory reporting limit (RL).
3. All analyses performed by TestAmerica Laboratories in Nashville, Tennessee.
4. Cells shaded in blue indicate results that are above the laboratory RL.
5. Cells with text bolded indicate results that exceed the New Mexico Administrative Code (NMAC) 20.6.2.3103, Standards for Groundwater: 10,000 mg/L total dissolved solids (TDS) and 250.0 mg/L chloride.
6. --- : Analysis not performed.
7. * : Analysis performed outside of holding time.
8. December 2016 results for MW-1R and MW-8 were confirmed by laboratory reanalysis.
9. Sample MW-1R was collected in December 2017 under sample ID MW-R1 as shown on the COC and in the field book.
10. Beginning with the September 2019 sampling event, Eurofins (Edison, NJ) became the Project Laboratory.

Table 4 : Summary of Laboratory Analytical Results for Chloride in Groundwater Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

	Chloride (mg/L)										
	March 2020	June 2020	Sept. 2020	Dec. 2020	March 2021	June 2021	Sept. 2021	Dec. 2021	March 2022	June 2022	Sept. 2022
MW-1R	---	---	---	---	---	---	---	---	---	---	---
MW-2	---	---	---	---	---	---	---	---	---	---	---
MW-3	---	---	---	---	---	---	---	---	---	---	---
MW-4	**443**	**429**	**430**	**475**	**437**	**528**	**438**	**404**	**387**	**414**	**412**
MW-5	---	---	---	---	---	---	---	---	---	---	---
MW-6	---	---	---	---	---	---	---	---	---	---	---
MW-7	---	---	---	---	---	---	---	---	---	---	---
MW-8	118	97.4	88.8	73.5	63.9	92.5	65.4	56.2	29.6	---	---

Notes:

1. mg/L : milligrams per liter.
2. < : Analyte not detected at the laboratory reporting limit (RL).
3. All analyses performed by TestAmerica Laboratories in Nashville, Tennessee.
4. Cells shaded in blue indicate results that are above the laboratory RL.
5. Cells with text bolded indicate results that exceed the New Mexico Administrative Code (NMAC) 20.6.2.3103, Standards for Groundwater: 10,000 mg/L total dissolved solids (TDS) and 250.0 mg/L chloride.
6. --- : Analysis not performed.
7. * : Analysis performed outside of holding time.
8. December 2016 results for MW-1R and MW-8 were confirmed by laboratory reanalysis.
9. Sample MW-1R was collected in December 2017 under sample ID MW-R1 as shown on the COC and in the field book.
10. Beginning with the September 2019 sampling event, Eurofins (Edison, NJ) became the Project Laboratory.

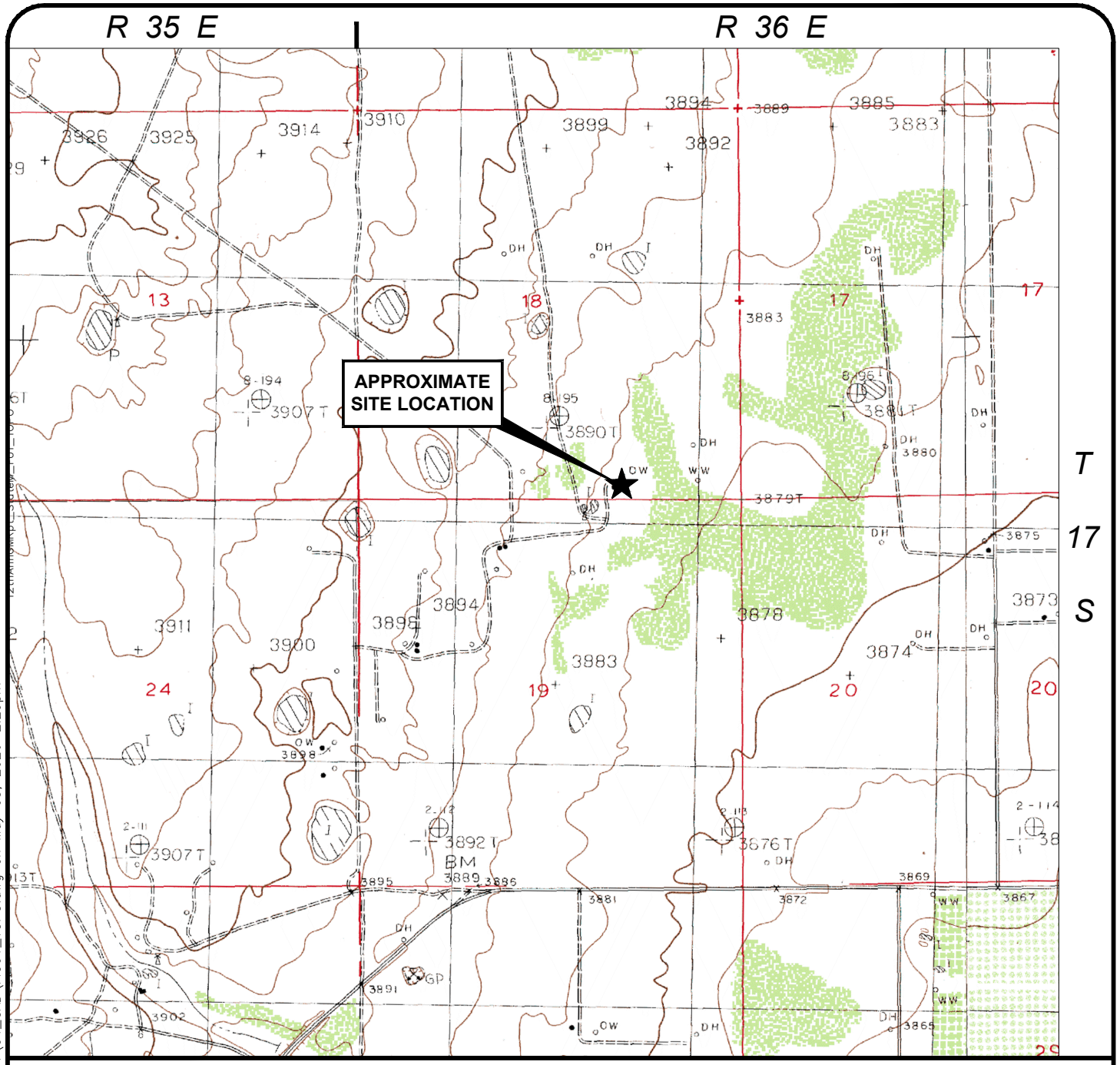
Table 4 : Summary of Laboratory Analytical Results for Chloride in Groundwater Samples
Expand Energy Corporation, State M Lease (AP-72)
Lea County, New Mexico

	Chloride (mg/L)													
	Dec. 2022	March 2023	June 2023	Sept. 2023	Dec. 2023	March 2024	June 2024	Sept. 2024	Nov. 2024	March 2025	June 2025	Sept. 2025	Dec. 2025	March 2026
MW-1R	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	**398**	**376**	**356**	**402**	**362**	**339**	**374**	**361**	**345**	**290**	**386**	**295**	**337**	**298**
MW-5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

1. mg/L : milligrams per liter.
2. < : Analyte not detected at the laboratory reporting limit (RL).
3. All analyses performed by TestAmerica Laboratories in Nashville, Tennessee.
4. Cells shaded in blue indicate results that are above the laboratory RL.
5. Cells with text bolded indicate results that exceed the New Mexico Administrative Code (NMAC) 20.6.2.3103, Standards for Groundwater: 10,000 mg/L total dissolved solids (TDS) and 250.0 mg/L chloride.
6. --- : Analysis not performed.
7. * : Analysis performed outside of holding time.
8. December 2016 results for MW-1R and MW-8 were confirmed by laboratory reanalysis.
9. Sample MW-1R was collected in December 2017 under sample ID MW-R1 as shown on the COC and in the field book.
10. Beginning with the September 2019 sampling event, Eurofins (Edison, NJ) became the Project Laboratory.

FIGURES



SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
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LOVINGTON SE, NEW MEXICO - PROVISIONAL EDITION 1985

SCALE
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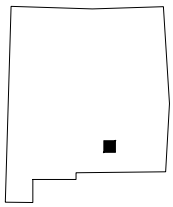
NEW MEXICO



CLIENT EXPAND ENERGY CORPORATION, LLC OKLAHOMA CITY, OKLAHOMA	FIGURE TITLE **SITE LOCATION AND TOPOGRAPHIC FEATURES**
LOCATION STATE M LEASE (AP-72) SEC. 18, T17S, R36E, LEA COUNTY, NEW MEXICO	DOCUMENT TITLE TWELFTH ANNUAL GROUNDWATER MONITORING REPORT

Equus Environmental, LLC
1923 South 44th West Avenue
Tulsa, Oklahoma 74107-3450
918.921.5331
www.EQUUSENV.com

		DESIGNED BY	MM
DATE	5/5/2026	APPROVED BY	MM
SCALE	AS SHOWN	DRAWN BY	SK
PROJECT NUMBER		FIGURE NUMBER	
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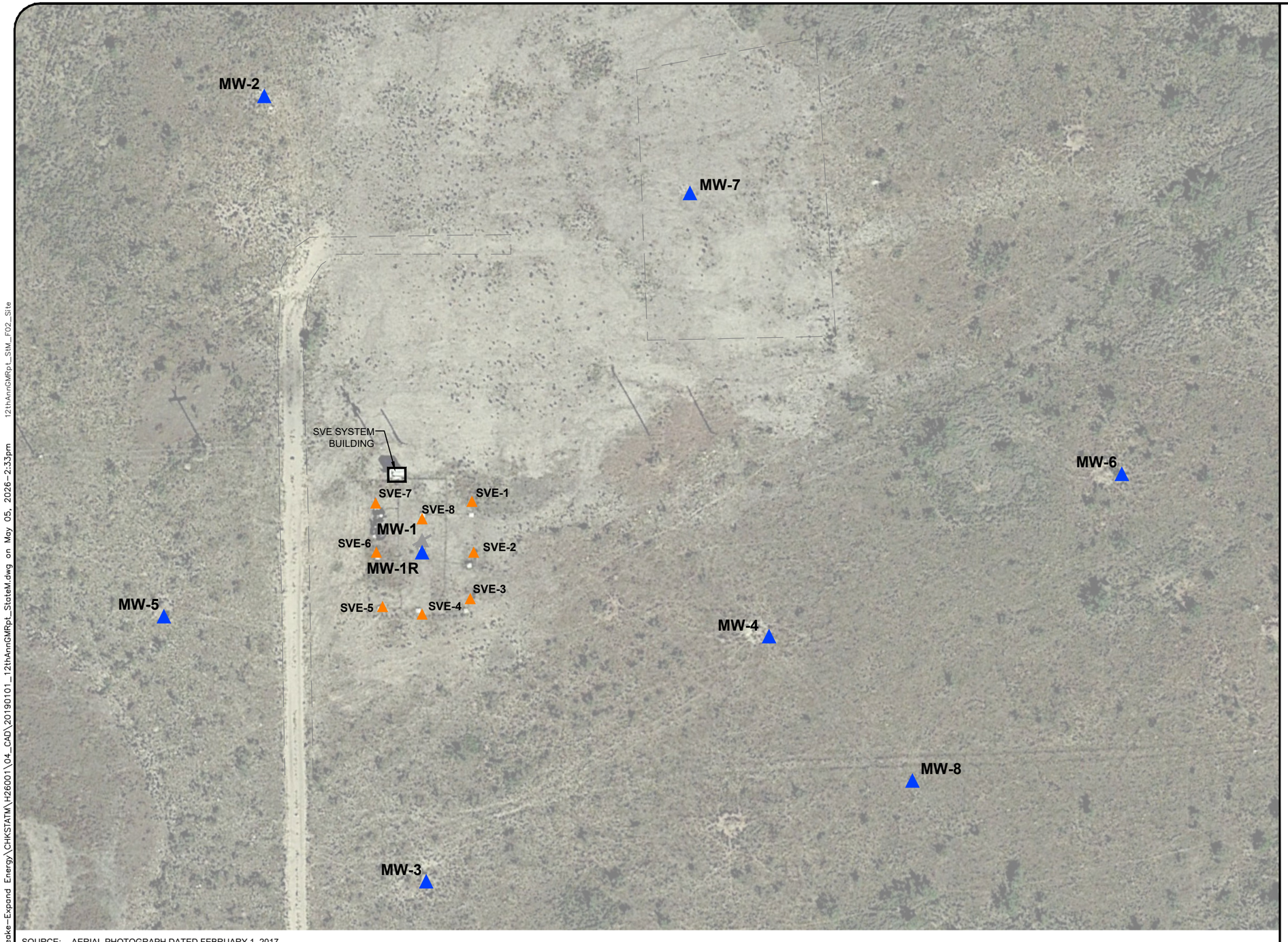

LEGEND

- MW-5 — LOCATION OF MONITORING WELL
- MW-1 — LOCATION OF PLUGGED AND ABANDONED MONITORING WELL
- SVE-1 — LOCATION OF SVE SYSTEM WELL

30 0 30 60
SCALE FEET

SOURCE: AERIAL PHOTOGRAPH DATED FEBRUARY 1, 2017, GOOGLE EARTH PRO SCREEN CAPTURE

EQUUS Environmental, LLC
1923 South 44th West Avenue
Tulsa, Oklahoma 74107-3450
918.921.5331
www.EQUUSENV.com

DOCUMENT TITLE: TWELFTH ANNUAL GROUNDWATER MONITORING REPORT

FIGURE TITLE: **SITE BASE MAP**

CLIENT: EXPAND ENERGY CORPORATION, OKLAHOMA CITY, OKLAHOMA

LOCATION: STATE M LEASE (AP-72), SEC. 18, T17S, R36E, LEA COUNTY, NEW MEXICO

DESIGNED BY	MM		
APPROVED BY	MM	SCALE	1"=60'
DRAWN BY	SK	DATE	5/5/2026

PROJECT NUMBER	FIGURE NUMBER
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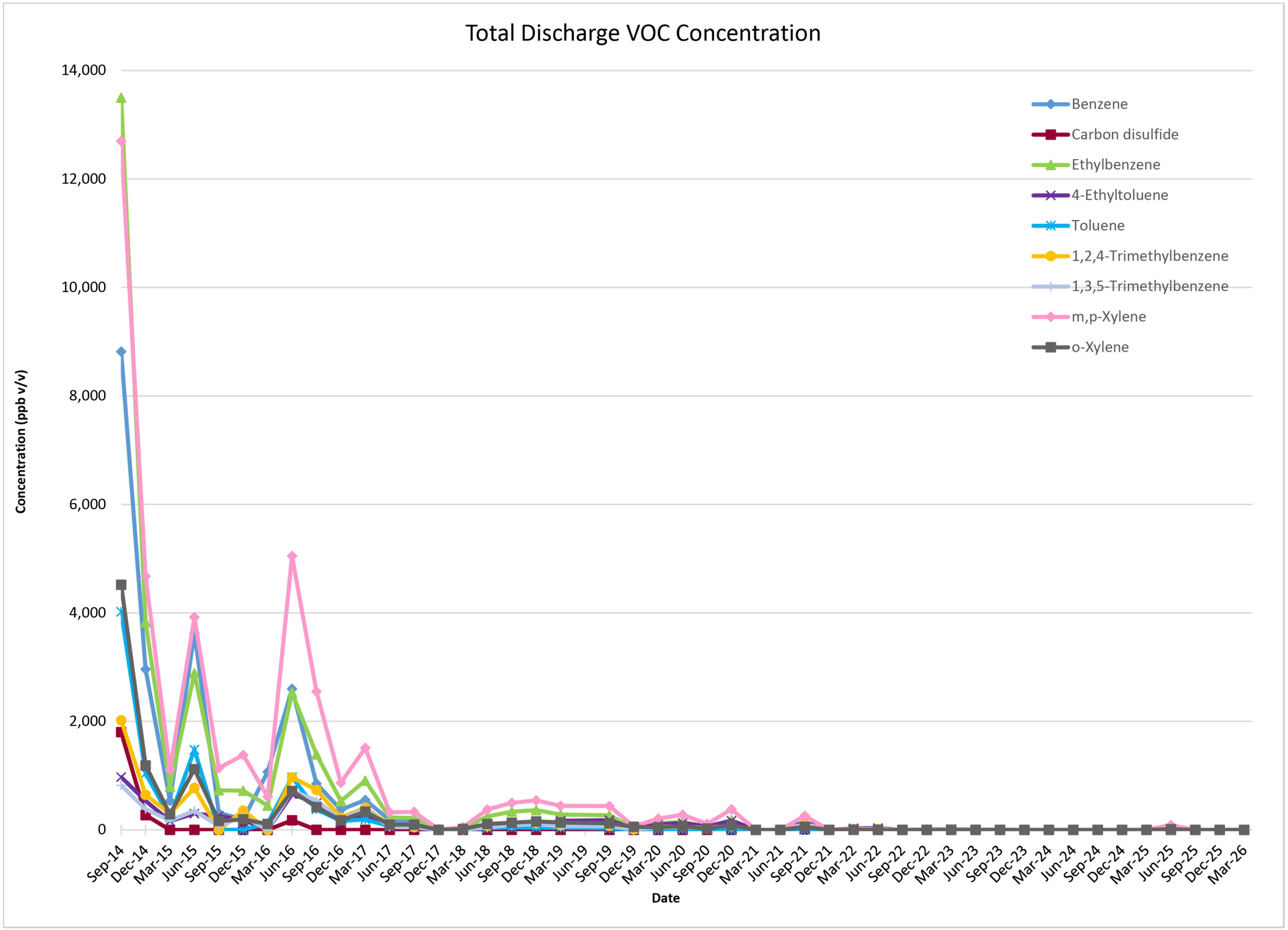

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Tulsa, Oklahoma 74107-3450
918.921.5331
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DOCUMENT TITLE: TWELFTH ANNUAL GROUNDWATER MONITORING REPORT

FIGURE TITLE: **SVE SYSTEM VOC DISCHARGE CONCENTRATIONS VERSUS TIME**

CLIENT: EXPAND ENERGY CORPORATION
OKLAHOMA CITY, OKLAHOMA

LOCATION: STATE M LEASE (AP-72)
SEC. 18, T17S, R36E, LEA COUNTY, NEW MEXICO

DESIGNED BY	CA		
APPROVED BY	MM	SCALE	NTS
DRAWN BY	JC	DATE	5/5/2026

PROJECT NUMBER	FIGURE NUMBER
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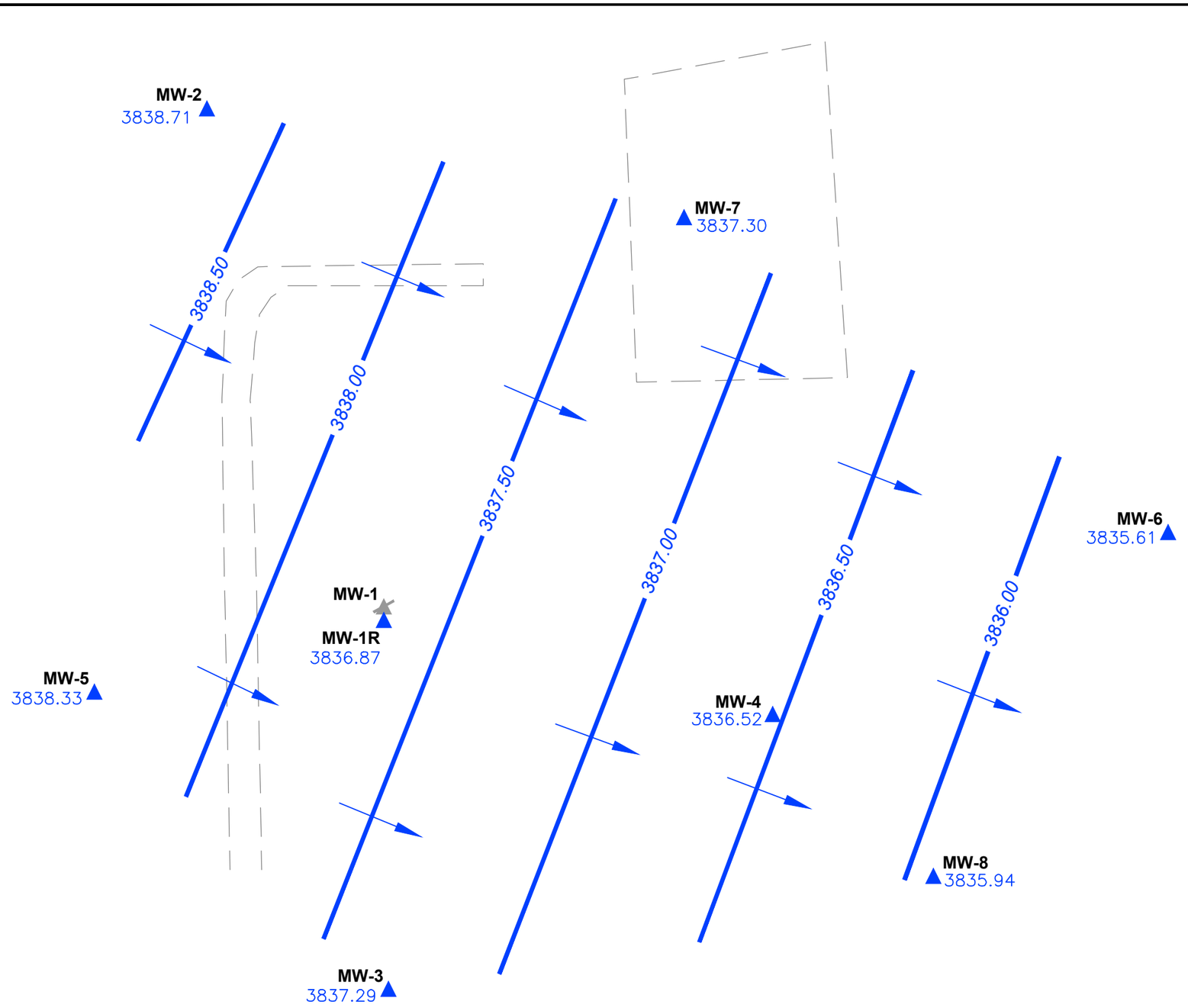

LEGEND

- MW-5 — LOCATION OF MONITORING WELL AND GROUNDWATER ELEVATION 3/17/2026, FEET AMSL
- MW-1 — LOCATION OF PLUGGED AND ABANDONED MONITORING WELL
- 3836.00 — GROUNDWATER POTENTIOMETRIC SURFACE

30 0 30 60
SCALE FEET

H:\PROJECTS\Chesapeake-Expand Energy\CHKSTATM\H26001\04_CAD\20190101_12thAnnGWRpt_StateM.dwg on May 05, 2026-2:40pm 12thAnnGWRpt_STM_F04_GW

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1923 South 44th West Avenue
Tulsa, Oklahoma 74107-3450
918.921.5331
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DOCUMENT TITLE: TWELFTH ANNUAL GROUNDWATER MONITORING REPORT

FIGURE TITLE: **GROUNDWATER POTENTIOMETRIC SURFACE, MARCH 17, 2026**

CLIENT: EXPAND ENERGY CORPORATION
OKLAHOMA CITY, OKLAHOMA

LOCATION: STATE M LEASE (AP-72)
SEC. 18, T17S, R36E, LEA COUNTY, NEW MEXICO

DESIGNED BY	MM		
APPROVED BY	MM	SCALE	1"= 60'
DRAWN BY	SK	DATE	5/5/2026

PROJECT NUMBER	FIGURE NUMBER
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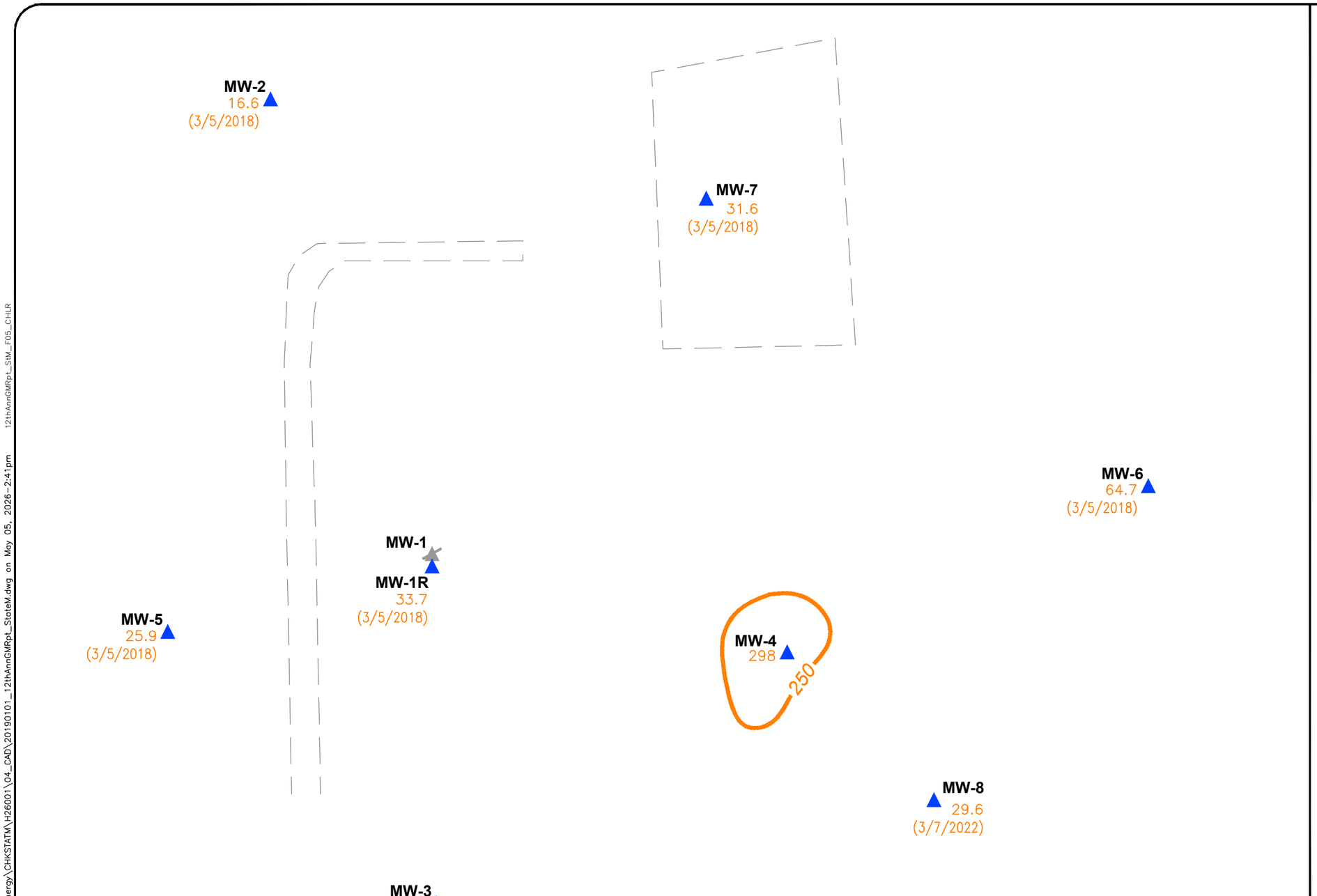

LEGEND

- MW-4 — LOCATION OF MONITORING WELL AND CONCENTRATION OF CHLORIDE IN GROUNDWATER 3/17/2026, mg/L
- MW-1 — LOCATION OF PLUGGED AND ABANDONED MONITORING WELL
- 250 — CONTOUR LINE SHOWING EQUAL CONCENTRATIONS OF CHLORIDE IN GROUNDWATER, mg/L. (DASHED WHERE INFERRED)

30 0 30 60
SCALE FEET

H:\PROJECTS\Chesapeake-Expand Energy\CHKSTATM\H26001\04_CAD\20190101_12thAnnGWRpt_StateM.dwg on May 05, 2026-2:41pm 12thAnnGWRpt_STM_F05_CHLR

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1923 South 44th West Avenue
Tulsa, Oklahoma 74107-3450
918.921.5331
www.EQUUSENV.com

DOCUMENT TITLE: TWELFTH ANNUAL GROUNDWATER MONITORING REPORT

FIGURE TITLE: **ISOPLETH OF CHLORIDE CONCENTRATIONS IN GROUNDWATER, MARCH 17, 2026**

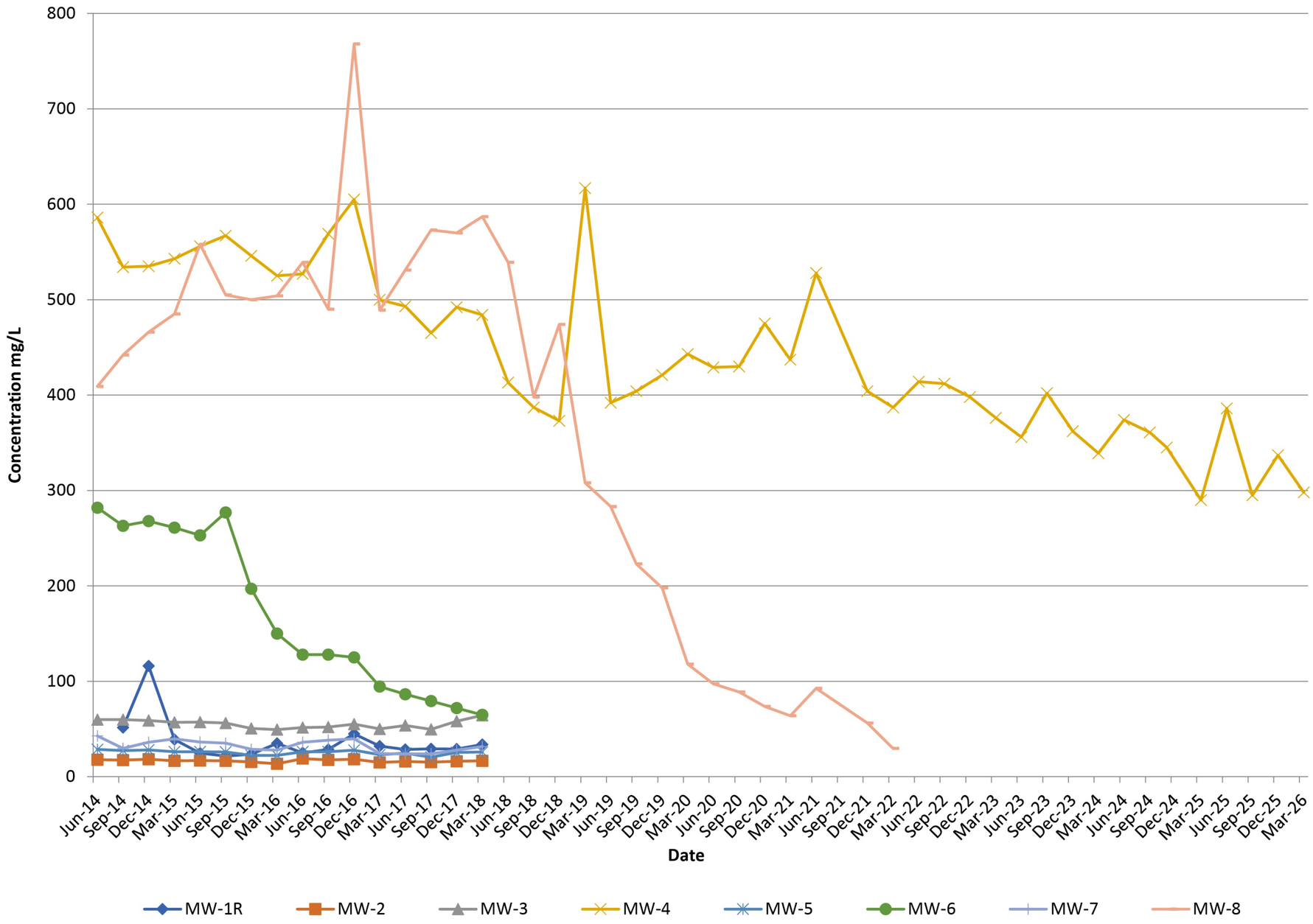
CLIENT: EXPAND ENERGY CORPORATION, OKLAHOMA CITY, OKLAHOMA

LOCATION: STATE M LEASE (AP-72), SEC. 18, T17S, R36E, LEA COUNTY, NEW MEXICO

DESIGNED BY	MM		
APPROVED BY	MM	SCALE	1"= 60'
DRAWN BY	SK	DATE	5/5/2026

PROJECT NUMBER	FIGURE NUMBER
CHKSTATM:25	5

Chloride Concentration



EQUUS Environmental, LLC
1923 South 44th West Avenue
Tulsa, Oklahoma 74107-3450
918.921.5331
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DOCUMENT TITLE: TWELFTH ANNUAL GROUNDWATER MONITORING REPORT

FIGURE TITLE: **CHLORIDE CONCENTRATION TREND GRAPH**

CLIENT: EXPAND ENERGY CORPORATION
OKLAHOMA CITY, OKLAHOMA

LOCATION: STATE M LEASE (AP-72)
SEC. 18, T17S, R36E, LEA COUNTY, NEW MEXICO

DESIGNED BY	CA		
APPROVED BY	MM	SCALE	NTS
DRAWN BY	JC	DATE	5/5/2026

PROJECT NUMBER	FIGURE NUMBER
CHKSTATM:25	6

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APPENDICES

APPENDIX A

STAGE 2 ABATEMENT PLAN

ARCADIS
Infrastructure · Water · Environment · Buildings

ARCADIS U.S., Inc.
1004 North Big Spring Street
Suite 300
Midland
Texas 79701
Tel 432 687 5400
Fax 432 687 5401
www.arcadis-us.com

ENVIRONMENT

Mr. Glenn Von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject:
State M-1 AP-072
Stage 2 Abatement Plan

Date:
March 27, 2012

Dear Mr. Von Gonten:

On behalf of Chesapeake Energy Corporation, ARCCADIS U.S. Inc. respectfully submits the enclosed Stage 2 Abatement plan for the State M-1 site (AP-072). A Stage 1 Abatement Plan Report was submitted on March 20, 2012. Your review and approval of this Abatement Plan will be appreciated. The landowner, Darr Angell, is anxious for us to complete soil remediation at this site.

If you have any questions please do not hesitate to contact Bradley Blevins at (575) 391-1462 or via e-mail at bblevins@chkenergy or me at (432) 687-5400, e-mail address shall@aracdis-us.com.

Contact:
Sharon Hall

Phone:
432 687-5400

Email:
shall@aracdis-us.com

Our ref:
MT001088

ARCADIS U.S., Inc.
TX Engineering License # F-533

Sincerely,

ARCADIS U.S., Inc.

Sharon E. Hall

Sharon E. Hall
Associate Vice President

Copies:
Bradley Blevins- Chesapeake, Hobbs

Imagine the result

g:\aproject\chesapeake\m-1 stage 2 plan\transmitall letter.doc

ARCADIS
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Chesapeake Energy Corporation

State M-1 AP-072
Stage 2 Abatement
Plan Proposal

Hobbs, New Mexico

March 27, 2012

ARCADIS

Sharon Hall
Associate Vice President

State M-1 AP-072

Stage 2 Abatement
Plan Proposal

Prepared for:
Chesapeake Energy
Corporation
Hobbs, New Mexico

Prepared by:
ARCADIS U.S., Inc.
1004 North Big Spring Street
Suite 300
Midland
Texas 79701
Tel 432 687 5400
Fax 432 687 5401

Our Ref.:
MT001088.0001.00001

Date:
March 27, 2012

Table of Contents

Figures

Appendices

ARCADIS

1. INTRODUCTION

The subject site is a former tank battery site located east of Buckeye, New Mexico. The site was purchased by Chesapeake Energy Corporation (Chesapeake) in April 2004. Chesapeake did not operate the tank battery or the associated well field and began the process of facility abandonment in 2007.

Seven monitor wells and nine soil borings have been drilled at the site. Elevated chloride concentrations and limited hydrocarbon compounds were detected in soil samples collected from soil borings and monitoring wells. Elevated chlorides were detected in the down gradient monitor wells and light non-aqueous phase liquid (LNAPL) occurs in monitoring well MW-1. LNAPL recovery activities have been piloted at the site and will commence again upon completion of surface reclamation activities.

2. SUMMARY OF STAGE 1 ABATEMENT ACTIVITIES

Initial site investigation activities were conducted in May of 2007 following abandonment of the tank battery. Stage 1 Abatement activities were conducted during the period of May 2007 through September 2011. Stage 1 Abatement activities included drilling and soil sampling of nine boreholes, drilling and sampling of seven monitor wells, EM 31 and EM 34 surveys, conversion of one monitoring well into a recovery well and recovery of phase-separated hydrocarbons from the recovery well.

New Mexico Oil Conservation Division (NMOCD) was notified of impacts to groundwater at the site via e-mail on May 30, 2007. NMOCD notified Chesapeake in a letter dated June 19, 2007 that a Stage 1 Abatement Plan was required for the site in accordance with Rule 19.

The Stage 1 Abatement Plan was submitted to NMOCD on August 22, 2007. The plan summarized site activities taken to date. The plan proposed the drilling and sampling of a minimum of three additional soil borings and installation and sampling of nine groundwater monitoring wells.

BBC contacted NMOCD via email on April 24, 2010 to inquire about the status of the Stage 1 Abatement Plan approval and Chesapeake's desire to conduct the proposed Stage 1 Abatement Plan activities. On May 27, 2010, NMOCD responded via email that the State was not staffed to review the Abatement Plans (APs) in a timely manner. On June 23, 2010, BBC contacted NMOCD via email to request a waiver of the Public Notice requirement and inform NMOCD that Chesapeake and the landowner were

anxious to move forward with the proposed AP activities. NMOCD replied via email on June 23, 2010 stating they were still understaffed to review the AP and could not waive the Public Notice requirement. They advised BBC that Chesapeake could proceed "at risk." On July 12, 2010 BBC informed NMOCD by registered letter that Chesapeake was planning to start the Stage 1 Assessment on or about August 23, 2010. They further informed NMOCD they would be submitting the required Public Notices, a copy of which was attached to the letter. NMOCD did not respond to the registered letter.

The public notices were published in the Hobbs News-Sun and Lovington Leader on July 22, 2010 and the Albuquerque Journal on July 24, 2010. No comments were received from the public or NMOCD during the 30-day comment period and Chesapeake proceeded with the proposed Stage 1 Abatement Plan activities on August 26, 2010. Copies of correspondence and Public Notice are included in Appendix A.

A detailed description of site activities and results can be found in the report submitted to NMOCD dated March 20, 2012 entitled State M-1 AP-072, Stage 1 Abatement Report (Site Assessment Investigation). Analytical results for soil and groundwater sampling are summarized on Figure 1.

3. STAGE 2 ABATEMENT PLAN PROPOSAL

After review of various remedial options, we propose the following Stage 2 Abatement Plan. The plan addresses soil and groundwater remediation.

3.1 Soil Remediation

The selected remedial option will be the excavation of near-surface soils and installation of clay liners. The anticipated extent and depth of excavation is based on assessment activities (laboratory analysis and visual observation) and is shown in Figure 2. Near surface soils (to a depth of 5 feet below ground surface) with chloride concentrations in excess of 1,000 milligrams per kilogram (mg/kg) and a Total Petroleum Hydrocarbons (TPH) concentration in excess of 1,000 mg/kg will be excavated and disposed. Excavated soils will be disposed at Lea Land Landfill.

Areas where chloride or TPH concentrations are expected to exceed 1,000 mg/kg at depths greater than 5 feet below ground surface soils will be excavated to a depth of 5

feet below ground surface. Soils will be screened in the field for chlorides using chloride field test kits and for TPH using a photoionization. Critical samples (samples used to delineate the excavations) will be submitted for laboratory analysis of chlorides and/or TPH. Following excavation, a 12-inch compacted clay layer that meets or exceeds a permeability of equal to or less than 1×10^{-8} centimeters per second will be installed in the excavations. The lined excavations will be backfilled with four feet of locally obtained native soil. All of the excavated areas will be re-seeded with native vegetation. Areas that are supporting vegetation will not be disturbed.

Use of the USEPA Multi-Med model demonstrates that the clay liners will mitigate the leaching of chlorides to groundwater. The model predicts that after 7000 years of infiltration through the liner the maximum concentration of chlorides in groundwater will be 221.8 milligrams per liter (mg/L). The Multi-Med inputs and outputs are included in Appendix A.

3.2 Groundwater Remediation and Monitoring

One additional groundwater monitoring well will be installed downgradient of the site. The monitoring well will be designated MW-8.

Groundwater samples will be collected from all of the monitoring wells and analyzed for chlorides using USEPA method 9056 for each of four quarters. Based on sample results for one year (four quarters), sampling frequency will be reviewed and may be revised.

Sampling will be discontinued when eight quarters of sample results indicate chloride concentrations are below New Mexico Water Quality Control Commission, Title 20, Chapter 6, Part 2 standards. Sample results will be submitted to the NMOCD annually on June 15.

Following removal of LNAPL from MW-1, groundwater samples will be collected from MW-1 and analyzed for benzene, toluene ethylbenzene and xylenes (BTEX) using USEPA method 8260B for each of four quarters. Based on sample results for one year (four quarters), sampling frequency will be reviewed and may be revised.

Sampling of MW-1 for BTEX will be discontinued when eight quarters of sample results indicate BTEX concentrations are below New Mexico Water Quality Control Commission, Title 20, Chapter 6, Part 2 standards. Sample results will be submitted to

the NMOCD annually on June 15. Proposed groundwater remediation is presented in Sections 3.2.1 and 3.2.2.

3.2.1 Chlorides

Chloride concentrations in groundwater exceed New Mexico Water Quality Control Commission standards in two wells (MW-1 411mg/L and MW-4 472mg/L).

Removal of near-surface soils that are a potential source of chlorides and BTEX in groundwater and lining of excavations with chloride and TPH concentrations in excess of 1,000 mg/kg will mitigate leaching of chlorides to groundwater. Considering the relatively low concentrations of chlorides in groundwater and the fact that soil removal and clay liner infiltration barrier installation will be conducted at this site, we propose monitoring the site for a period of two years before considering pumping of groundwater at this site. With the proposed source removal and mitigation and the severe drought conditions being experienced in this area, we believe it prudent to evaluate if chloride mass removal by pumping is warranted at this site.

3.2.2 Hydrocarbons

A pilot LNAPL recovery test will take place over a three week period and will be used to develop long-term recovery procedures. LNAPL will be recovered from MW-1 and disposed in a NMOCD approved facility. Additionally, two soil vent borings equipped with wind turbines will be installed in the area near MW-1.

4. PUBLIC NOTIFICATION

Written notification of submittal of the Stage 2 Abatement Plan Proposal and site activities will be sent to all surface owners of record within a one-mile radius of the site. NMOCD will be supplied with a list of parties to be notified. Publication of notice of activities will be published in a state-wide circulated newspaper, the Albuquerque Journal, and two county newspapers, the Hobbs-Daily News Sun and the Lovington Leader.

5. REMEDIATION WORK SCHEDULE

Soil remediation activities are expected to be completed in 15 working days (Monday through Friday). Groundwater remediation activities will be ongoing. An estimated completion date for groundwater remediation is not available.

6. REFERENCES

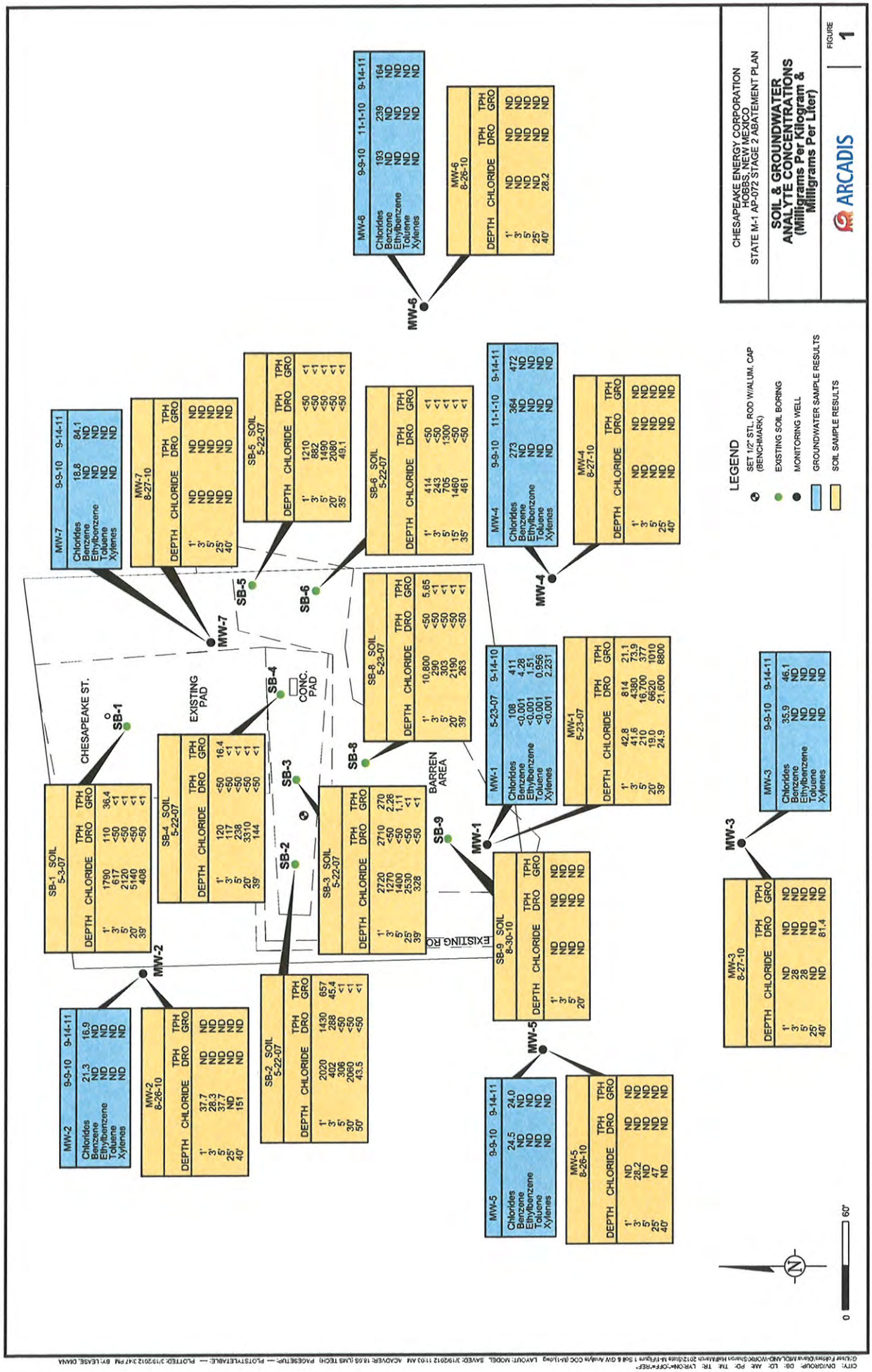
Groundwater Handbook; United States Environmental Protection Agency, Office of Research and Development, Center for Environmental Research Information; 1992

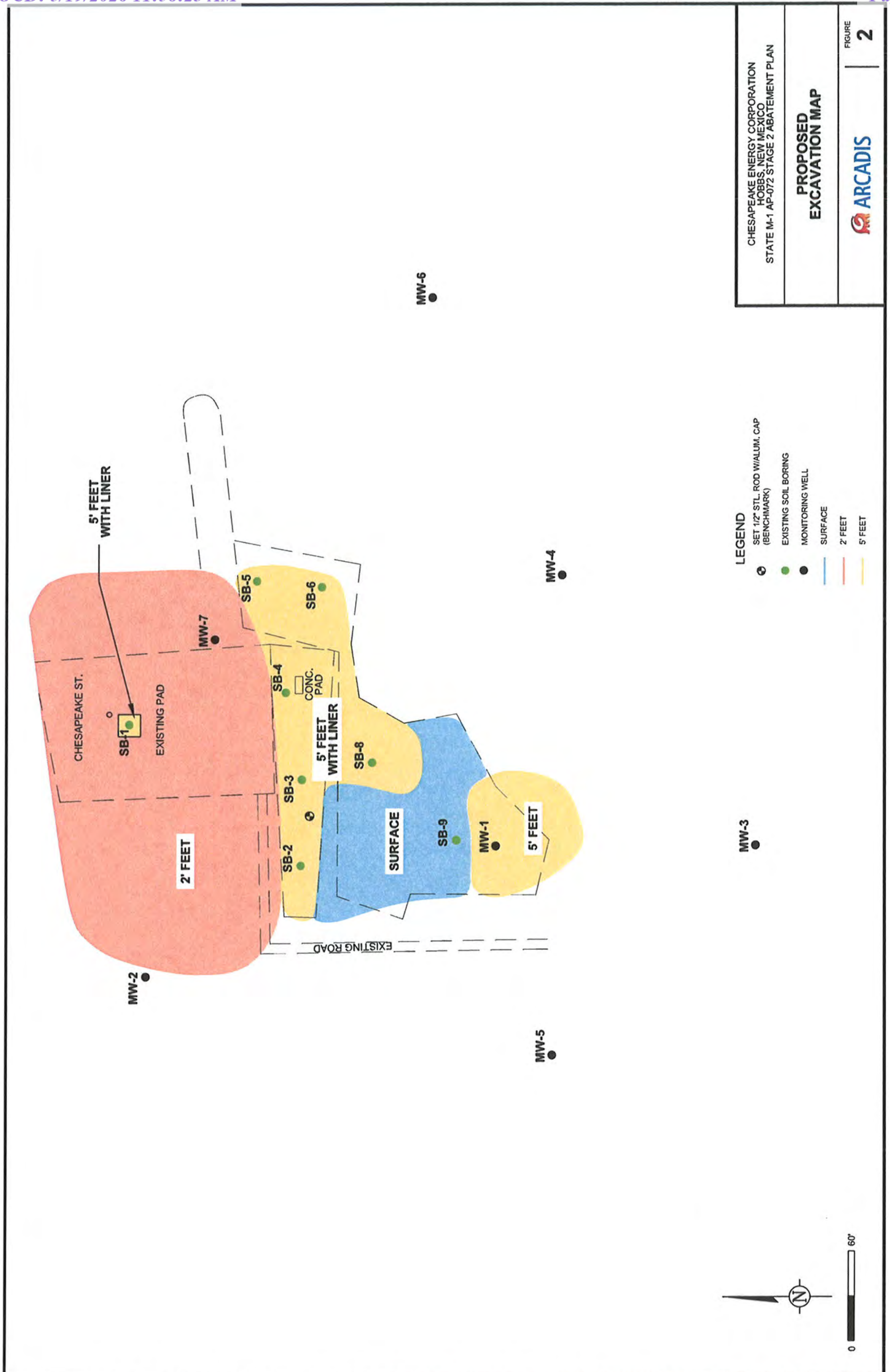
New Mexico Water Quality Control Commission, Title 20 Chapter 6, Part 2, Subpart I

State M-1 AP-072 Stage 1 Abatement Report (Site Assessment Investigation); ARCADIS; March 2012

State M-1Salt Water Disposal Tank Battery, Stage 1 Abatement Plan (Ap-072), BBC International; August 2007

New Mexico Water Quality Control Commission, Title 20 Chapter 6, Part 2, Subpart I


CHESAPEAKE ENERGY CORPORATION
HOBBS, NEW MEXICO
STATE M-1 AP-072 STAGE 2 ABATEMENT PLAN
SOIL & GROUNDWATER ANALYTE CONCENTRATIONS (Milligrams Per Kilogram & Milligrams Per Liter)
FIGURE 1
ARCADIS
LEGEND
SET 1/2" STL. ROD W/ALUM. CAP (BENCHMARK)
EXISTING SOIL BORING
MONITORING WELL
GROUNDWATER SAMPLE RESULTS
SOIL SAMPLE RESULTS
CHESAPEAKE ST.
EXISTING PAD
CONC. PAD
BARREN AREA
EXISTING ROAD
SB-1
SB-2
SB-3
SB-4
SB-5
SB-6
SB-8
SB-9
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
SB-1 SOIL 5-3-07
SB-2 SOIL 5-22-07
SB-3 SOIL 5-22-07
SB-4 SOIL 5-22-07
SB-5 SOIL 5-22-07
SB-6 SOIL 5-22-07
SB-8 SOIL 5-23-07
SB-9 SOIL 8-30-10
MW-1 5-23-07 9-14-11
MW-2 8-26-10 9-9-10 9-14-11
MW-3 8-27-10 9-9-10 9-14-11
MW-4 8-27-10 9-9-10 11-1-10 9-14-11
MW-5 8-26-10 9-9-10 9-14-11
MW-6 8-26-10 9-9-10 11-1-10 9-14-11
MW-7 8-27-10 9-9-10 9-14-11
0
60'


CHESAPEAKE ENERGY CORPORATION
HOBBS, NEW MEXICO
STATE M-1 AP-072 STAGE 2 ABATEMENT PLAN
PROPOSED
EXCAVATION MAP
ARCADIS
FIGURE
2
LEGEND
SET 1/2" STL. ROD W/ALUM. CAP (BENCHMARK)
EXISTING SOIL BORING
MONITORING WELL
SURFACE
2' FEET
5' FEET
5' FEET WITH LINER
CHESAPEAKE ST.
EXISTING PAD
CONC. PAD
EXISTING ROAD
2' FEET
5' FEET WITH LINER
SURFACE
5' FEET
SB-1
SB-2
SB-3
SB-4
SB-5
SB-6
SB-8
SB-9
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
0
60'

ARCADIS

Appendix A

Multi-Med Model Inputs and Outputs

Chesapeake State M-1
Chesapeake Energy Corporation
Buckeye, Lea County, New Mexico
Multimed Model Input and Output (With Liner)

MODEL INPUT AND OUTPUT						MODEL RANGE	
INPUT PARAMETERS						Minimum	Maximum
Unsaturated Zone Flow Parameters							
Depth of Unsaturated Zone	m	45	feet	13.7	m	0.000000001	None
Hydraulic Conductivity	cm/hr	2	ft/day	2.54	cm/hr	0.00000000001	10,000
Unsaturated Zone Porosity	fraction	0.05	fraction	0.05	fraction	0.000000001	0.99
Residual Water Content	fraction	0.01	fraction	0.010	fraction	0.000000001	1
Unsaturated Zone Transport Parameters							
Thickness of Layer	m	45	feet	13.7	m	0.000000001	None
Percent of Organic Matter	%	2.6	%	2.6	%	0	100
Bulk Density	g/cm^3	1.35	g/cm^3	1.35	g/cm^3	0.01	5
Biological Decay Coefficient	1/yr	0	1/yr	0	1/yr	0	None
Aquifer Parameters							
Aquifer Porosity	fraction	0.25	fraction	0.25	fraction	0.000000001	0.99
Bulk Density	g/cm^3	1.35	g/cm^3	1.35	g/cm^3	0.01	5
Aquifer Thickness	m	50	ft	15.24	m	0.000000001	100,000
Hydraulic Conductivity	m/yr	2	ft/day	223	m/yr	0.0000001	100,000,000
Hydraulic Gradient	m/m	0.007	m/m	0.007	m/m	0.00000001	None
Organic Carbon Content	fraction	0.00315	fraction	0.00315	fraction	0.000001	1
Temperature of Aquifer	°C	14.4	°C	14.4	°C	0.00000001	None
pH		6.2		6.2		0.3	14
x-distance Radial Distance from Site to Receptor	m	1	m	1	m	1	None
Source Parameters							
Infiltration Rate from the Facility	m/yr	0.124	in/yr	0.00315	m/yr	0.0000000001	10,000,000,000
Area of Waste Disposal Unit	m^2	46,800	ft^2	4348	m^2	0.01	None
Length Scale of Facility	m	240	feet	73.2	m	0.000000001	10,000,000,000
Width Scale of Facility	m	195	feet	59.4	m	0.000000001	10,000,000,000
Recharge Rate into the Plume	m/yr	16.71	in/yr	0.4244	m/yr	0	10,000,000,000
Duration of Pulse	yr	8,000	yr	8000	yr	0.000000001	None
Initial Concentration at Landfill	mg/L	6,000	mg/L	6,000	mg/L	0	None
Additional Parameters							
Method				Gaussian		Gaussian	Patch
Name of Chemical Specified				Chloride			

MODEL OUTPUT			
Final Concentration at Landfill	mg/L	221.8	mg/L

MODEL OUTPUT				
Concentration at Landfill	0.0 mg/L	Time	1 yr
	0.0 mg/L		10 yr
	0.0 mg/L		20 yr
	18.9 mg/L		50 yr
	36.6 mg/L		70 yr
	45.4 mg/L		80 yr
	61.8 mg/L		100 yr
	123.4 mg/L		200 yr
	154.1 mg/L		300 yr
	166.3 mg/L		400 yr
	178.5 mg/L		500 yr
	190.7 mg/L		600 yr
	204.8 mg/L		800 yr
	211.1 mg/L		1,000 yr
	220.4 mg/L		2,000 yr
	221.6 mg/L		3,000 yr
	221.8 mg/L		4,000 yr
	221.8 mg/L		5,000 yr
	221.8 mg/L		6,000 yr
	221.8 mg/L		7,000 yr

Chesapeake State M-1
Chesapeake Energy Corporation
Buckeye, Lea County, New Mexico

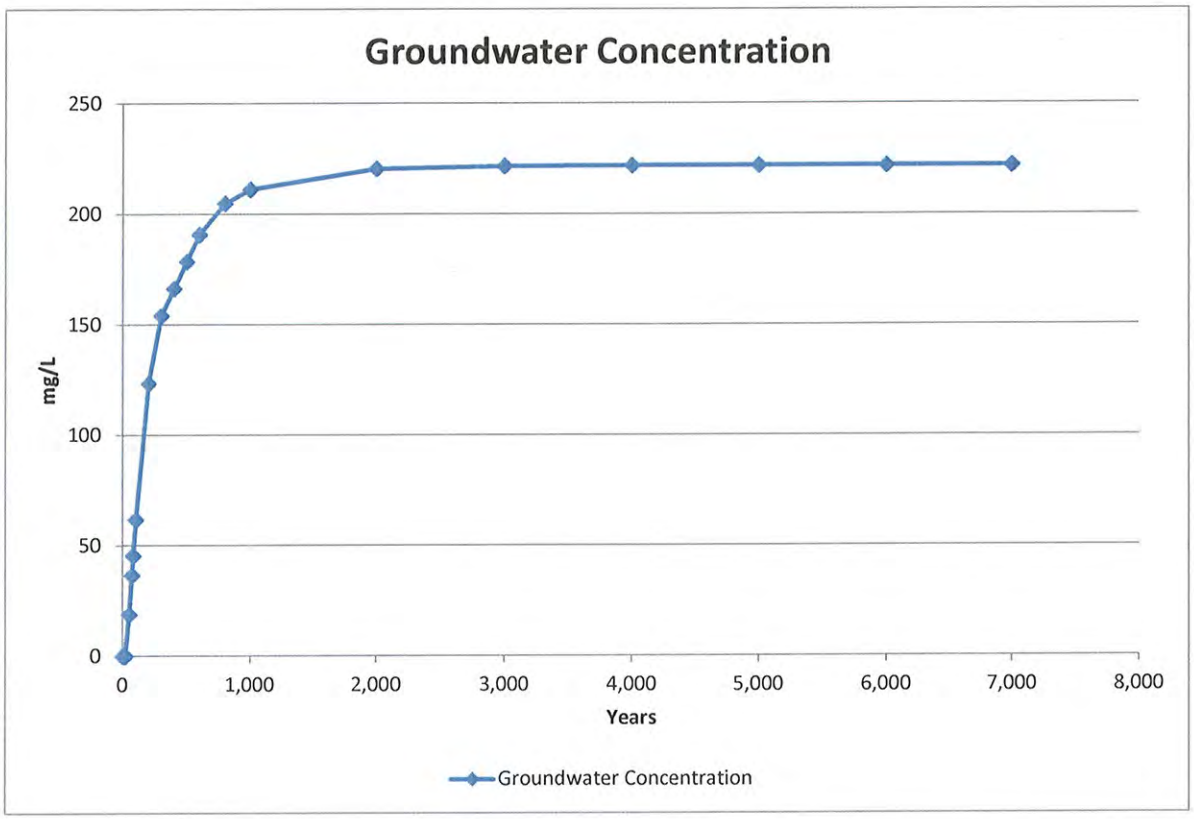


TABLE 6-3. TOTAL POROSITY OF VARIOUS MATERIALS

Material	No. of Analyses	Range	Arithmetic Mean
Igneous Rocks			
Weathered granite	8	0.34-0.57	0.45
Weathered gabbro	4	0.42-0.45	0.43
Basalt	94	0.03-0.35	0.17
Sedimentary Materials			
Sandstone	65	0.14-0.49	0.34
Siltstone	7	0.21-0.41	0.35
Sand (fine)	243	0.26-0.53	0.43
Sand (coarse)	26	0.31-0.46	0.39
Gravel (fine)	38	0.25-0.38	0.34
Gravel (coarse)	15	0.24-0.36	0.28
Silt	281	0.34-0.61	0.46
Clay	74	0.34-0.57	0.42
Limestone	74	0.07-0.56	0.3
Metamorphic Rocks			
Schist	18	0.04-0.49	0.38

Sources: From Mercer et al. (1982),
McWhorter and Sunada (1977),
Original reference Morris and Johnson, (1967).

Texture	Bulk Density g/cm^3	Average Wilting Point	Plant Available Water Inches/Ft
Sandy loam	1.6	0.057	1.66
Silt Loam	1.45	0.119	2
Loam	1.5	0.097	2.4
Sandy clay loam	1.45	0.137	1.66
Clay loam	1.45	0.157	1.9

TABLE 6-8. MEAN BULK DENSITY (g/cm3) FOR FIVE SOIL TEXTURAL CLASSIFICATIONSa,b

Soil Texture	Mean Value	Range Reported
Silt Loams	1.32	0.86 - 1.67
Clay and Clay Loams	1.3	0.94 - 1.54
Sandy Loams	1.49	1.25 - 1.76
Gravelly Silt Loams	1.22	1.02 - 1.58
Loams	1.42	1.16 - 1.58
All Soils	1.35	0.86 - 1.76

a Baes, C.F., III and R.D. Sharp. 1983. A Proposal for Estimation of Soil Leaching Constants for Use in Assessment Models. J. Environ. Qual. 12(1):17-28 (Original reference).

b From Dean et al. (1989)

TABLE 6-2. DESCRIPTIVE STATISTICS FOR SATURATED HYDRAULIC CONDUCTIVITY (cm hr-1)

Soil Type	Hydraulic Conductivity (Ks)* x	s	CV	n		
Clay**	0.2	0.42	210.3	114	cm/hr	17.52
Clay Loam	0.26	0.7	267.2	345	cm/hr	22.776
Loam	1.04	1.82	174.6	735	cm/hr	91.104
Loamy Sand	14.59	11.36	77.9	315	cm/hr	1278.084
Silt	0.25	0.33	129.9	88	cm/hr	21.9
Silt Loam	0.45	1.23	275.1	1093	cm/hr	39.42
Silty Clay	0.02	0.11	453.3	126	cm/hr	1.752
Silty Clay Loam	0.07	0.19	288.7	592	cm/hr	6.132
Sand	29.7	15.6	52.4	246	cm/hr	2601.72
Sandy Clay	0.12	0.28	234.1	46	cm/hr	10.512
Sandy Clay Loam	1.31	2.74	208.6	214	cm/hr	114.756
Sandy Loam	4.42	5.63	127	1183	cm/hr	387.192

* n = Sample size, = Mean, s = Standard deviation, CV = Coefficient of variation (percent)

** Agricultural soil, less than 60 percent clay

Sources: From Dean et al. (1989),
Original reference Carsel and Parrish (1988).

Saturated water content is the maximum volumetric amount of water in the soil when all pores are filled with water. Very often it is assumed that saturated water content equals the porosity n . However, in many cases qS is smaller than n due to the fact that small amounts of air will be trapped in very small pores. Residual water content can be defined as the asymptote of the pF-curve when h gets very high negative values. Usually qR is very small - on the order of 0.001--0.02 for coarse soils but gets as high values as 0.15..0.25 for heavy clay soils. Air entry point ha is

Soil texture. Fine-textured soils can hold much more organic matter than sandy soils for two reasons. First, clay particles form electrochemical bonds that hold organic compounds. Second, decomposition occurs faster in well-aerated sandy soils. A sandy loam rarely holds more than 2% organic matter.

The recharge rate in this model is the net amount of water that percolates directly into the aquifer system outside of the land disposal facility. The recharge is assumed to have no contamination and hence dilutes the groundwater contaminant plume. The recharge rate into the plume can be calculated in a variety of ways. One possibility is to use a model, such as HELP (Hydrologic Evaluation of Landfill Performance) (Schroeder et al., 1984), without any engineering controls (leachate collection system or a liner) to simulate the water balance for natural conditions.

The infiltration rate is the net amount of leachate that percolates into the aquifer system from a land disposal facility. Because of the use of engineering controls and the presence of non-native porous materials in the landfill facility, the infiltration rate will typically be different than the recharge rate. However, it can be estimated by similar

Most soils contain 2-10 percent organic matter. *The Importance of Soil Organic Matter: Key to Drought-Resistant Soil and Sustained Food Production. http://www.fao.org*

APPENDIX B

NMOCD APPROVAL OF STAGE 2 ABATEMENT PLAN

From:	Chase Acker
To:	Bruce McKenzie
Subject:	FW: Stage 2 Abatement Plan Approval: AP-72 Former State M-1 Tank Battery located in Unit Letter O of Section 18 in Township 17 South, Range 36 East, NMPM in Lea County, NM
Date:	Monday, April 14, 2014 1:56:01 PM

From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]
Sent: Thursday, June 27, 2013 5:14 PM
To: Larry Wooten
Cc: Hall, Sharon; Chase Acker
Subject: Stage 2 Abatement Plan Approval: AP-72 Former State M-1 Tank Battery located in Unit Letter O of Section 18 in Township 17 South, Range 36 East, NMPM in Lea County, NM

Mr. Wooten,

The Oil Conservation Division (OCD) has reviewed the Stage 2 Abatement Plan for the above-referenced site submitted on your behalf by Arcadis and dated 3/27/12. That plan has substantially met the requirements of 19.15.30 NMAC and is hereby approved. Please proceed with field activities.

Be advised this approval does not relieve Chesapeake of responsibility should the situation continue to pose a threat to groundwater, surface water, human health, or the environment. Furthermore, this approval does not relieve your responsibility for compliance with any federal, state, or local laws and/or regulations. Please retain a copy of this email for your files, as no hardcopy will be sent. If you have any questions, please feel free to contact me at any time.

Jim Griswold
Senior Hydrologist
EMNRD/Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505.476.3465
email: jim.griswold@state.nm.us

APPENDIX C

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dana Drury
Expand Energy
PO BOX 548806
Oklahoma City, Oklahoma 73154

Generated 6/26/2025 6:40:22 PM

JOB DESCRIPTION

Equus - Chesapeake
Property ID: 891077

JOB NUMBER

180-191987-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

my EOL

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization

Generated
6/26/2025 6:40:22 PM

Authorized for release by
Ken Hayes, Project Manager II
Ken.Hayes@et.eurofinsus.com
(615)301-5035

Client: Expand Energy
Project/Site: Equus - Chesapeake

Laboratory Job ID: 180-191987-1
SDG: Property ID: 891077

Table of Contents

Case Narrative

Client: Expand Energy
Project: Equus - Chesapeake

Job ID: 180-191987-1

Job ID: 180-191987-1 Eurofins Pittsburgh

Job Narrative
180-191987-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 6/13/2025 9:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Subcontract Work
Method TO 15: This method was subcontracted to Eurofins Air Toxics, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Definitions/Glossary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-191987-1
SDG: Property ID: 891077

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-191987-1
SDG: Property ID: 891077

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-191987-1	20250612M-1	Air	06/12/25 12:45	06/13/25 09:55

Method Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-191987-1
SDG: Property ID: 891077

Method	Method Description	Protocol	Laboratory
TO-15	TO-15	EPA	Eurofins

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

Eurofins = Eurofins Air Toxics, 180 Blue Ravine Road, Suite B, Folsom, CA 95630

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Analytical Report

6/26/2025
Mr. Ken Hayes
Eurofins Environment Testing
301 Alpha Dr.

Pittsburgh PA 15238

Project Name: CHK State M
Project #: CHKSTATM
Workorder #: 2506424

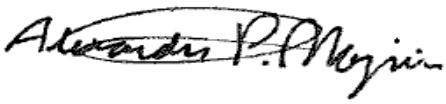
Dear Mr. Ken Hayes

The following report includes the data for the above referenced project for sample(s) received on 6/13/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Alexander Mojica at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Alexander Mojica

Project Manager

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WORK ORDER #: 2506424

Work Order Summary

CLIENT:	Mr. Ken Hayes Eurofins Environment Testing 301 Alpha Dr. Pittsburgh, PA 15238	**BILL TO:**	Mr. Ken Hayes Eurofins Environment Testing 301 Alpha Dr. Pittsburgh, PA 15238
PHONE:		**P.O. #**	180-191987-1
FAX:		**PROJECT #**	CHKSTATM CHK State M
DATE RECEIVED:	06/13/2025	**CONTACT:**	Alexander Mojica
DATE COMPLETED:	06/26/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	20250612M-1	TO-15	11.4 "Hg	2 psi
02A	Lab Blank	TO-15	NA	NA
03A	CCV	TO-15	NA	NA
04A	LCS	TO-15	NA	NA
04AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 06/26/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

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LABORATORY NARRATIVE
EPA Method TO-15
Eurofins Environment Testing
Workorder# 2506424

One 6 Liter Summa Canister sample was received on June 13, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TVOC (Total Volatile Organic Compounds) referenced to Hexane was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

TVOC (Total Volatile Organic Compounds) referenced to Hexane includes area counts for peaks that elute from Hexane minus 0.08 minutes to Naphthalene plus 0.08 minutes and quantitating the area based on the response factor of Hexane.

TVOC Ref. to Hexane is not a NELAP accredited compound for TO-15. The listed non-Accredited compounds associated with this data set are reported as semi-quantitative results, supported by a single point initial calibration and a daily Continuing Calibration (CCV). The calibration accuracy has not been confirmed using a second source standard and the reporting limit has not been validated by conducting a Method Detection Limit (MDL) study.

Dilution was performed on sample 20250612M-1 due to matrix interference.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

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r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: 20250612M-1

Lab ID#: 2506424-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Benzene	9.2	10	40	44
1,2,4-Trimethylbenzene	9.2	18	45	91
1,3,5-Trimethylbenzene	9.2	34	45	170
m,p-Xylene	9.2	90	40	390
o-Xylene	9.2	13	40	55
TVOC Ref. to Hexane	180	34000	640	120000

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Client Sample ID: 20250612M-1

Lab ID#: 2506424-01A

EPA METHOD TO-15 GC/MS

File Name:	**14062509**	**Date of Collection:**	**6/12/25 12:45:00 PM**
Dil. Factor:	**1.83**	**Date of Analysis:**	**6/25/25 11:20 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	37	Not Detected	87	Not Detected
Benzene	9.2	Not Detected	29	Not Detected
alpha-Chlorotoluene	9.2	Not Detected	47	Not Detected
Bromodichloromethane	9.2	Not Detected	61	Not Detected
Bromoform	9.2	Not Detected	94	Not Detected
Bromomethane	37	Not Detected	140	Not Detected
2-Butanone (Methyl Ethyl Ketone)	37	Not Detected	110	Not Detected
Carbon Disulfide	37	Not Detected	110	Not Detected
Carbon Tetrachloride	9.2	Not Detected	58	Not Detected
Chlorobenzene	9.2	Not Detected	42	Not Detected
Dibromochloromethane	9.2	Not Detected	78	Not Detected
Chloroethane	37	Not Detected	96	Not Detected
Chloroform	9.2	Not Detected	45	Not Detected
Chloromethane	37	Not Detected	76	Not Detected
1,2-Dibromoethane (EDB)	9.2	Not Detected	70	Not Detected
1,2-Dichlorobenzene	9.2	Not Detected	55	Not Detected
1,3-Dichlorobenzene	9.2	Not Detected	55	Not Detected
1,4-Dichlorobenzene	9.2	Not Detected	55	Not Detected
1,1-Dichloroethane	9.2	Not Detected	37	Not Detected
Freon 12	9.2	Not Detected	45	Not Detected
1,2-Dichloroethane	9.2	Not Detected	37	Not Detected
1,1-Dichloroethene	9.2	Not Detected	36	Not Detected
cis-1,2-Dichloroethene	9.2	Not Detected	36	Not Detected
trans-1,2-Dichloroethene	9.2	Not Detected	36	Not Detected
1,2-Dichloropropane	9.2	Not Detected	42	Not Detected
cis-1,3-Dichloropropene	9.2	Not Detected	42	Not Detected
trans-1,3-Dichloropropene	9.2	Not Detected	42	Not Detected
Freon 114	9.2	Not Detected	64	Not Detected
Ethyl Benzene	9.2	10	40	44
4-Ethyltoluene	9.2	Not Detected	45	Not Detected
Hexachlorobutadiene	37	Not Detected	390	Not Detected
2-Hexanone	37	Not Detected	150	Not Detected
Methylene Chloride	37	Not Detected	130	Not Detected
4-Methyl-2-pentanone	37	Not Detected	150	Not Detected
Styrene	9.2	Not Detected	39	Not Detected
1,1,2,2-Tetrachloroethane	9.2	Not Detected	63	Not Detected
Tetrachloroethene	9.2	Not Detected	62	Not Detected
Toluene	9.2	Not Detected	34	Not Detected
1,2,4-Trichlorobenzene	37	Not Detected	270	Not Detected
1,1,1-Trichloroethane	9.2	Not Detected	50	Not Detected
1,1,2-Trichloroethane	9.2	Not Detected	50	Not Detected
Trichloroethene	9.2	Not Detected	49	Not Detected

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Client Sample ID: 20250612M-1

Lab ID#: 2506424-01A

EPA METHOD TO-15 GC/MS

File Name:	**14062509**	**Date of Collection: 6/12/25 12:45:00 PM**	
Dil. Factor:	**1.83**	**Date of Analysis: 6/25/25 11:20 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	9.2	Not Detected	51	Not Detected
Freon 113	9.2	Not Detected	70	Not Detected
1,2,4-Trimethylbenzene	9.2	18	45	91
1,3,5-Trimethylbenzene	9.2	34	45	170
Vinyl Acetate	37	Not Detected	130	Not Detected
Vinyl Chloride	9.2	Not Detected	23	Not Detected
m,p-Xylene	9.2	90	40	390
o-Xylene	9.2	13	40	55
TVOC Ref. to Hexane	180	34000	640	120000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	114	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2506424-02A

EPA METHOD TO-15 GC/MS

File Name:	**14062508a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/25/25 10:49 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	20	Not Detected	48	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
Freon 12	5.0	Not Detected	25	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
4-Methyl-2-pentanone	20	Not Detected	82	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2506424-02A

EPA METHOD TO-15 GC/MS

File Name:	**14062508a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/25/25 10:49 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	5.0	Not Detected	28	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
Vinyl Acetate	20	Not Detected	70	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
TVOC Ref. to Hexane	100	Not Detected	350	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV
Lab ID#: 2506424-03A
EPA METHOD TO-15 GC/MS

File Name:	**14062502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/25/25 08:21 AM**	

Compound	%Recovery
Acetone	106
Benzene	110
alpha-Chlorotoluene	89
Bromodichloromethane	104
Bromoform	102
Bromomethane	124
2-Butanone (Methyl Ethyl Ketone)	106
Carbon Disulfide	112
Carbon Tetrachloride	107
Chlorobenzene	107
Dibromochloromethane	102
Chloroethane	124
Chloroform	105
Chloromethane	107
1,2-Dibromoethane (EDB)	102
1,2-Dichlorobenzene	101
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	102
1,1-Dichloroethane	110
Freon 12	111
1,2-Dichloroethane	107
1,1-Dichloroethene	109
cis-1,2-Dichloroethene	108
trans-1,2-Dichloroethene	102
1,2-Dichloropropane	104
cis-1,3-Dichloropropene	103
trans-1,3-Dichloropropene	105
Freon 114	116
Ethyl Benzene	100
4-Ethyltoluene	103
Hexachlorobutadiene	77
2-Hexanone	96
Methylene Chloride	107
4-Methyl-2-pentanone	103
Styrene	105
1,1,2,2-Tetrachloroethane	98
Tetrachloroethene	106
Toluene	107
1,2,4-Trichlorobenzene	92
1,1,1-Trichloroethane	109
1,1,2-Trichloroethane	103
Trichloroethene	102

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Client Sample ID: CCV
Lab ID#: 2506424-03A
EPA METHOD TO-15 GC/MS

File Name:	**14062502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/25/25 08:21 AM**	

Compound	%Recovery
Freon 11	119
Freon 113	115
1,2,4-Trimethylbenzene	103
1,3,5-Trimethylbenzene	104
Vinyl Acetate	106
Vinyl Chloride	115
m,p-Xylene	101
o-Xylene	104
TVOC Ref. to Hexane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS
Lab ID#: 2506424-04A
EPA METHOD TO-15 GC/MS

File Name:	**14062503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/25/25 08:43 AM**	

Compound	%Recovery	Method Limits
Acetone	106	70-130
Benzene	109	70-130
alpha-Chlorotoluene	87	70-130
Bromodichloromethane	100	70-130
Bromoform	99	70-130
Bromomethane	124	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
Carbon Disulfide	107	70-130
Carbon Tetrachloride	104	70-130
Chlorobenzene	106	70-130
Dibromochloromethane	102	70-130
Chloroethane	120	70-130
Chloroform	100	70-130
Chloromethane	103	70-130
1,2-Dibromoethane (EDB)	101	70-130
1,2-Dichlorobenzene	97	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	99	70-130
1,1-Dichloroethane	107	70-130
Freon 12	106	70-130
1,2-Dichloroethane	103	70-130
1,1-Dichloroethene	105	70-130
cis-1,2-Dichloroethene	103	70-130
trans-1,2-Dichloroethene	102	70-130
1,2-Dichloropropane	99	70-130
cis-1,3-Dichloropropene	100	70-130
trans-1,3-Dichloropropene	106	70-130
Freon 114	109	70-130
Ethyl Benzene	100	70-130
4-Ethyltoluene	101	70-130
Hexachlorobutadiene	87	70-130
2-Hexanone	96	70-130
Methylene Chloride	103	70-130
4-Methyl-2-pentanone	93	70-130
Styrene	103	70-130
1,1,2,2-Tetrachloroethane	97	70-130
Tetrachloroethene	106	70-130
Toluene	104	70-130
1,2,4-Trichlorobenzene	100	70-130
1,1,1-Trichloroethane	105	70-130
1,1,2-Trichloroethane	108	70-130
Trichloroethene	103	70-130

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Client Sample ID: LCS

Lab ID#: 2506424-04A

EPA METHOD TO-15 GC/MS

File Name:	**14062503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/25/25 08:43 AM**	

Compound	%Recovery	Method Limits
Freon 11	116	70-130
Freon 113	110	70-130
1,2,4-Trimethylbenzene	98	70-130
1,3,5-Trimethylbenzene	102	70-130
Vinyl Acetate	118	70-130
Vinyl Chloride	112	70-130
m,p-Xylene	98	70-130
o-Xylene	99	70-130
TVOC Ref. to Hexane	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCSD
Lab ID#: 2506424-04AA
EPA METHOD TO-15 GC/MS

File Name:	**14062504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/25/25 09:07 AM**	

Compound	%Recovery	Method Limits
Acetone	114	70-130
Benzene	109	70-130
alpha-Chlorotoluene	89	70-130
Bromodichloromethane	101	70-130
Bromoform	100	70-130
Bromomethane	130	70-130
2-Butanone (Methyl Ethyl Ketone)	114	70-130
Carbon Disulfide	113	70-130
Carbon Tetrachloride	109	70-130
Chlorobenzene	107	70-130
Dibromochloromethane	104	70-130
Chloroethane	124	70-130
Chloroform	105	70-130
Chloromethane	110	70-130
1,2-Dibromoethane (EDB)	101	70-130
1,2-Dichlorobenzene	100	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	100	70-130
1,1-Dichloroethane	108	70-130
Freon 12	113	70-130
1,2-Dichloroethane	104	70-130
1,1-Dichloroethene	112	70-130
cis-1,2-Dichloroethene	111	70-130
trans-1,2-Dichloroethene	108	70-130
1,2-Dichloropropane	105	70-130
cis-1,3-Dichloropropene	102	70-130
trans-1,3-Dichloropropene	105	70-130
Freon 114	116	70-130
Ethyl Benzene	102	70-130
4-Ethyltoluene	102	70-130
Hexachlorobutadiene	96	70-130
2-Hexanone	95	70-130
Methylene Chloride	108	70-130
4-Methyl-2-pentanone	99	70-130
Styrene	102	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Tetrachloroethene	105	70-130
Toluene	105	70-130
1,2,4-Trichlorobenzene	111	70-130
1,1,1-Trichloroethane	110	70-130
1,1,2-Trichloroethane	106	70-130
Trichloroethene	103	70-130

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Client Sample ID: LCSD
Lab ID#: 2506424-04AA
EPA METHOD TO-15 GC/MS

File Name:	**14062504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/25/25 09:07 AM**	

Compound	%Recovery	Method Limits
Freon 11	126	70-130
Freon 113	116	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3,5-Trimethylbenzene	102	70-130
Vinyl Acetate	122	70-130
Vinyl Chloride	116	70-130
m,p-Xylene	101	70-130
o-Xylene	100	70-130
TVOC Ref. to Hexane	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

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Method : TO-15 (Sp)-Eurofins TA (CEC, OK)

CAS Number	Compound	Rpt. Limit (ppbv)
67-64-1	Acetone	5.0
71-43-2	Benzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
75-27-4	Bromodichloromethane	0.50
75-25-2	Bromoform	0.50
74-83-9	Bromomethane	5.0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
75-15-0	Carbon Disulfide	2.0
56-23-5	Carbon Tetrachloride	0.50
108-90-7	Chlorobenzene	0.50
124-48-1	Dibromochloromethane	0.50
75-00-3	Chloroethane	2.0
67-66-3	Chloroform	0.50
74-87-3	Chloromethane	5.0
106-93-4	1,2-Dibromoethane (EDB)	0.50
95-50-1	1,2-Dichlorobenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
75-34-3	1,1-Dichloroethane	0.50
75-71-8	Freon 12	0.50
107-06-2	1,2-Dichloroethane	0.50
75-35-4	1,1-Dichloroethene	0.50
156-59-2	cis-1,2-Dichloroethene	0.50
156-60-5	trans-1,2-Dichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50
76-14-2	Freon 114	0.50
100-41-4	Ethyl Benzene	0.50
622-96-8	4-Ethyltoluene	0.50
87-68-3	Hexachlorobutadiene	2.0
591-78-6	2-Hexanone	2.0
75-09-2	Methylene Chloride	5.0
108-10-1	4-Methyl-2-pentanone	0.50
100-42-5	Styrene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50
127-18-4	Tetrachloroethene	0.50
108-88-3	Toluene	1.0
120-82-1	1,2,4-Trichlorobenzene	2.0
71-55-6	1,1,1-Trichloroethane	0.50
79-00-5	1,1,2-Trichloroethane	0.50
79-01-6	Trichloroethene	0.50
75-69-4	Freon 11	0.50
76-13-1	Freon 113	0.50

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Method : TO-15 (Sp)-Eurofins TA (CEC, OK)

CAS Number	Compound	Rpt. Limit (ppbv)
95-63-6	1,2,4-Trimethylbenzene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
108-05-4	Vinyl Acetate	2.0
75-01-4	Vinyl Chloride	0.50
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
9999-9999-500	**TVOC Ref. to Hexane**	**10**

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

eurofins | Air Toxics

Eurofins Air Toxics Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

In accordance with your company's contract, this account is required to have a PO that is fully executed by both parties which also covers the cost of the workorder before any data can be released. Please ensure that you have given all appropriate information to our Project Manager so that there will be no delay in reporting of the data you are requesting.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

2506424

CHAIN OF CUSTODY RECORD

No. 2835

EQUUS Environmental, LLC
(918) 921-5331

PROJECT NUMBER: CHKSTATM	PROJECT NAME: CHK STATEM
SHIPPED TO: AIR TOXICS	PROJECT MANAGER: MATT MUNGAVERO
COC 1 of 1	TAT: STANDARD

SAMPLER'S PRINTED NAME: Eric Farrar

SAMPLERS SIGNATURE:

PO# WO#

* TVOC as C_6-C_{12}

	Date	Time	Sample ID	Sample Matrix	# of Sample Containers	TO-15	TVOC as Hexane *								REMARKS
014	6-12-25	12:45	20250612M-1	air	1	x	x								TAG #: 00917

TOTAL NUMBER OF CONTAINERS → 1

RELINQUISHED BY:	DATE 6-12-25	RECEIVED BY: BTS EATU	DATE 6/13/25
	TIME 14:00		TIME 0955
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

INITIAL °C: 4 CF: 0.1°C FINAL °C:
PROBE: N/A TIME STORED:
CUSTODY SEAL? YES NO (NONE)
CARRIER: Fedex

METHOD OF SHIPMENT: FEDEX

AIRBILL NUMBER: 4264 5032 2076

RECEIVED IN LABORATORY BY: DATE TIME

Send PDF, EDD, and INVOICE (if applicable) to: QAQC@EquusEnv.com

LABORATORY CONTACT: KEN 615-301-5035

LABORATORY ADDRESS: 180 BLUE RAVINE RD. STE. B FOLSOM, CA 95630

White: Receiving Lab Yellow: Equus Environmental Project File Pink: Equus QA/QC

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Method : TO-15 (Sp)-Eurofins TA (CEC, OK)

CAS Number	Compound	Rpt. Limit (ppbv)
67-64-1	Acetone	5.0
71-43-2	Benzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
75-27-4	Bromodichloromethane	0.50
75-25-2	Bromoform	0.50
74-83-9	Bromomethane	5.0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
75-15-0	Carbon Disulfide	2.0
56-23-5	Carbon Tetrachloride	0.50
108-90-7	Chlorobenzene	0.50
124-48-1	Dibromochloromethane	0.50
75-00-3	Chloroethane	2.0
67-66-3	Chloroform	0.50
74-87-3	Chloromethane	5.0
106-93-4	1,2-Dibromoethane (EDB)	0.50
95-50-1	1,2-Dichlorobenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
75-34-3	1,1-Dichloroethane	0.50
75-71-8	Freon 12	0.50
107-06-2	1,2-Dichloroethane	0.50
75-35-4	1,1-Dichloroethene	0.50
156-59-2	cis-1,2-Dichloroethene	0.50
156-60-5	trans-1,2-Dichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50
76-14-2	Freon 114	0.50
100-41-4	Ethyl Benzene	0.50
622-96-8	4-Ethyltoluene	0.50
87-68-3	Hexachlorobutadiene	2.0
591-78-6	2-Hexanone	2.0
75-09-2	Methylene Chloride	5.0
108-10-1	4-Methyl-2-pentanone	0.50
100-42-5	Styrene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50
127-18-4	Tetrachloroethene	0.50
108-88-3	Toluene	1.0
120-82-1	1,2,4-Trichlorobenzene	2.0
71-55-6	1,1,1-Trichloroethane	0.50

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Method : TO-15 (Sp)-Eurofins TA (CEC, OK)

CAS Number	Compound	Rpt. Limit (ppbv)
79-00-5	1,1,2-Trichloroethane	0.50
79-01-6	Trichloroethene	0.50
75-69-4	Freon 11	0.50
76-13-1	Freon 113	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
108-05-4	Vinyl Acetate	2.0
75-01-4	Vinyl Chloride	0.50
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
9999-9999-500	TVOC Ref. to Hexane	10

CAS Number	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

Login Sample Receipt Checklist

Client: Expand Energy

Job Number: 180-191987-1
SDG Number: Property ID: 891077

Login Number: 191987
List Number: 1
Creator: Hayes, Ken

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dana Drury
Expand Energy
PO BOX 548806
Oklahoma City, Oklahoma 73154

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JOB DESCRIPTION

Equus - Chesapeake
Property ID: 891077

JOB NUMBER

180-197071-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

my EOL

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization

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Revision 1

Authorized for release by
Ken Hayes, Project Manager II
Ken.Hayes@et.eurofinsus.com
(615)301-5035

Client: Expand Energy
Project/Site: Equus - Chesapeake

Laboratory Job ID: 180-197071-1
SDG: Property ID: 891077

Table of Contents

Case Narrative

Client: Expand Energy
Project: Equus - Chesapeake

Job ID: 180-197071-1

Job ID: 180-197071-1 Eurofins Pittsburgh

Job Narrative
180-197071-1

REVISION
The report being provided is a revision of the original report sent on 10/13/2025. The report (revision 1) is being revised due to change the sample ID from "20250612M-1" to "20250923M-1" as per the COC.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 9/25/2025 9:39 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Subcontract Work
Method TO 15: This method was subcontracted to Eurofins Air Toxics, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Definitions/Glossary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-197071-1
SDG: Property ID: 891077

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-197071-1
SDG: Property ID: 891077

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
180-197071-1	20250923M-1	Air	09/23/25 11:45	09/25/25 09:39	NM

Method Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-197071-1
SDG: Property ID: 891077

Method	Method Description	Protocol	Laboratory
TO-15	TO-15	EPA	Eurofins

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

Eurofins = Eurofins Air Toxics, 180 Blue Ravine Road, Suite B, Folsom, CA 95630, TEL (800)985-5955

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Analytical Report

10/9/2025
Mr. Ken Hayes
Eurofins Environment Testing
301 Alpha Dr.

Pittsburgh PA 15238

Project Name: CHK State M
Project #: CHKSTAT M
Workorder #: 2509718

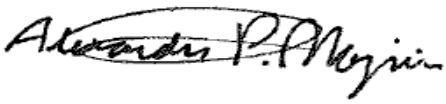
Dear Mr. Ken Hayes

The following report includes the data for the above referenced project for sample(s) received on 9/25/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Alexander Mojica at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Alexander Mojica

Project Manager

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WORK ORDER #: 2509718

Work Order Summary

CLIENT:	Mr. Ken Hayes Eurofins Environment Testing 301 Alpha Dr. Pittsburgh, PA 15238	**BILL TO:**	Mr. Ken Hayes Eurofins Environment Testing 301 Alpha Dr. Pittsburgh, PA 15238
PHONE:		**P.O. #**	180-191987-1
FAX:		**PROJECT #**	CHKSTAT M CHK State M
DATE RECEIVED:	09/25/2025	**CONTACT:**	Alexander Mojica
DATE COMPLETED:	10/09/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	20250923M-1	TO-15	11.2 "Hg	1.9 psi
02A	Lab Blank	TO-15	NA	NA
03A	CCV	TO-15	NA	NA
04A	LCS	TO-15	NA	NA
04AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/09/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

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LABORATORY NARRATIVE
EPA Method TO-15
Eurofins Environment Testing
Workorder# 2509718

One 6 Liter Summa Canister sample was received on September 25, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TVOC (Total Volatile Organic Compounds) referenced to Hexane was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

TVOC Ref. to Hexane is not a NELAP accredited compound for TO-15. The listed non-Accredited compounds associated with this data set are reported as semi-quantitative results, supported by a single point initial calibration and a daily Continuing Calibration (CCV). The calibration accuracy has not been confirmed using a second source standard and the reporting limit has not been validated by conducting a Method Detection Limit (MDL) study.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 20250923M-1

Lab ID#: 2509718-01A

No Detections Were Found.

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Client Sample ID: 20250923M-1

Lab ID#: 2509718-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100909**	**Date of Collection:**	**9/23/25 11:45:00 AM**
Dil. Factor:	**1.80**	**Date of Analysis:**	**10/9/25 01:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	9.0	Not Detected	21	Not Detected
Benzene	0.90	Not Detected	2.9	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
Bromoform	0.90	Not Detected	9.3	Not Detected
Bromomethane	9.0	Not Detected	35	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.6	Not Detected	11	Not Detected
Carbon Disulfide	3.6	Not Detected	11	Not Detected
Carbon Tetrachloride	0.90	Not Detected	5.7	Not Detected
Chlorobenzene	0.90	Not Detected	4.1	Not Detected
Dibromochloromethane	0.90	Not Detected	7.7	Not Detected
Chloroethane	3.6	Not Detected	9.5	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
Chloromethane	9.0	Not Detected	18	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	6.9	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Freon 12	0.90	Not Detected	4.4	Not Detected
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.2	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
Freon 114	0.90	Not Detected	6.3	Not Detected
Ethyl Benzene	0.90	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected
Methylene Chloride	9.0	Not Detected	31	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
Styrene	0.90	Not Detected	3.8	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.2	Not Detected
Tetrachloroethene	0.90	Not Detected	6.1	Not Detected
Toluene	1.8	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	27	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Trichloroethene	0.90	Not Detected	4.8	Not Detected

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Client Sample ID: 20250923M-1

Lab ID#: 2509718-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100909**	**Date of Collection:**	**9/23/25 11:45:00 AM**
Dil. Factor:	**1.80**	**Date of Analysis:**	**10/9/25 01:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.90	Not Detected	5.0	Not Detected
Freon 113	0.90	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
Vinyl Acetate	3.6	Not Detected	13	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
m,p-Xylene	1.8	Not Detected	7.8	Not Detected
o-Xylene	0.90	Not Detected	3.9	Not Detected
TVOC Ref. to Hexane	18	Not Detected	63	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2509718-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100907d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/25 11:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	5.0	Not Detected	12	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Freon 12	0.50	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2509718-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100907d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/25 11:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TVOC Ref. to Hexane	10	Not Detected	35	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: CCV

Lab ID#: 2509718-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/25 09:32 AM**	

Compound	%Recovery
Acetone	95
Benzene	100
alpha-Chlorotoluene	99
Bromodichloromethane	104
Bromoform	106
Bromomethane	98
2-Butanone (Methyl Ethyl Ketone)	93
Carbon Disulfide	95
Carbon Tetrachloride	99
Chlorobenzene	99
Dibromochloromethane	103
Chloroethane	91
Chloroform	102
Chloromethane	86
1,2-Dibromoethane (EDB)	100
1,2-Dichlorobenzene	111
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	105
1,1-Dichloroethane	97
Freon 12	102
1,2-Dichloroethane	95
1,1-Dichloroethene	98
cis-1,2-Dichloroethene	98
trans-1,2-Dichloroethene	99
1,2-Dichloropropane	92
cis-1,3-Dichloropropene	96
trans-1,3-Dichloropropene	99
Freon 114	102
Ethyl Benzene	107
4-Ethyltoluene	121
Hexachlorobutadiene	105
2-Hexanone	95
Methylene Chloride	93
4-Methyl-2-pentanone	95
Styrene	114
1,1,2,2-Tetrachloroethane	104
Tetrachloroethene	104
Toluene	101
1,2,4-Trichlorobenzene	103
1,1,1-Trichloroethane	100
1,1,2-Trichloroethane	101
Trichloroethene	99

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Client Sample ID: CCV

Lab ID#: 2509718-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/25 09:32 AM**	

Compound	%Recovery
Freon 11	102
Freon 113	104
1,2,4-Trimethylbenzene	114
1,3,5-Trimethylbenzene	109
Vinyl Acetate	101
Vinyl Chloride	97
m,p-Xylene	112
o-Xylene	106
TVOC Ref. to Hexane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	108	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2509718-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/25 09:56 AM**	

Compound	%Recovery	Method Limits
Acetone	79	70-130
Benzene	101	70-130
alpha-Chlorotoluene	97	70-130
Bromodichloromethane	104	70-130
Bromoform	105	70-130
Bromomethane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	90	70-130
Carbon Disulfide	94	70-130
Carbon Tetrachloride	99	70-130
Chlorobenzene	100	70-130
Dibromochloromethane	103	70-130
Chloroethane	91	70-130
Chloroform	101	70-130
Chloromethane	87	70-130
1,2-Dibromoethane (EDB)	98	70-130
1,2-Dichlorobenzene	108	70-130
1,3-Dichlorobenzene	108	70-130
1,4-Dichlorobenzene	103	70-130
1,1-Dichloroethane	96	70-130
Freon 12	103	70-130
1,2-Dichloroethane	94	70-130
1,1-Dichloroethene	94	70-130
cis-1,2-Dichloroethene	98	70-130
trans-1,2-Dichloroethene	98	70-130
1,2-Dichloropropane	91	70-130
cis-1,3-Dichloropropene	97	70-130
trans-1,3-Dichloropropene	101	70-130
Freon 114	101	70-130
Ethyl Benzene	108	70-130
4-Ethyltoluene	119	70-130
Hexachlorobutadiene	118	70-130
2-Hexanone	98	70-130
Methylene Chloride	89	70-130
4-Methyl-2-pentanone	98	70-130
Styrene	114	70-130
1,1,2,2-Tetrachloroethane	103	70-130
Tetrachloroethene	103	70-130
Toluene	99	70-130
1,2,4-Trichlorobenzene	116	70-130
1,1,1-Trichloroethane	103	70-130
1,1,2-Trichloroethane	101	70-130
Trichloroethene	97	70-130

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Client Sample ID: LCS

Lab ID#: 2509718-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/25 09:56 AM**	

Compound	%Recovery	Method Limits
Freon 11	102	70-130
Freon 113	102	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3,5-Trimethylbenzene	109	70-130
Vinyl Acetate	122	70-130
Vinyl Chloride	96	70-130
m,p-Xylene	109	70-130
o-Xylene	106	70-130
TVOC Ref. to Hexane	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 2509718-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/25 10:21 AM**	

Compound	%Recovery	Method Limits
Acetone	79	70-130
Benzene	101	70-130
alpha-Chlorotoluene	99	70-130
Bromodichloromethane	104	70-130
Bromoform	106	70-130
Bromomethane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
Carbon Disulfide	93	70-130
Carbon Tetrachloride	99	70-130
Chlorobenzene	101	70-130
Dibromochloromethane	103	70-130
Chloroethane	92	70-130
Chloroform	100	70-130
Chloromethane	86	70-130
1,2-Dibromoethane (EDB)	100	70-130
1,2-Dichlorobenzene	109	70-130
1,3-Dichlorobenzene	111	70-130
1,4-Dichlorobenzene	104	70-130
1,1-Dichloroethane	96	70-130
Freon 12	101	70-130
1,2-Dichloroethane	93	70-130
1,1-Dichloroethene	94	70-130
cis-1,2-Dichloroethene	98	70-130
trans-1,2-Dichloroethene	98	70-130
1,2-Dichloropropane	93	70-130
cis-1,3-Dichloropropene	97	70-130
trans-1,3-Dichloropropene	101	70-130
Freon 114	101	70-130
Ethyl Benzene	110	70-130
4-Ethyltoluene	120	70-130
Hexachlorobutadiene	121	70-130
2-Hexanone	98	70-130
Methylene Chloride	88	70-130
4-Methyl-2-pentanone	97	70-130
Styrene	115	70-130
1,1,2,2-Tetrachloroethane	105	70-130
Tetrachloroethene	104	70-130
Toluene	97	70-130
1,2,4-Trichlorobenzene	117	70-130
1,1,1-Trichloroethane	103	70-130
1,1,2-Trichloroethane	102	70-130
Trichloroethene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2509718-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**91100905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/25 10:21 AM**	

Compound	%Recovery	Method Limits
Freon 11	101	70-130
Freon 113	101	70-130
1,2,4-Trimethylbenzene	114	70-130
1,3,5-Trimethylbenzene	108	70-130
Vinyl Acetate	120	70-130
Vinyl Chloride	97	70-130
m,p-Xylene	111	70-130
o-Xylene	106	70-130
TVOC Ref. to Hexane	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	107	70-130

eurofins | Air Toxics

Method : TO-15 (Sp)-Eurofins TA (CEC, OK)

CAS Number	Compound	Rpt. Limit (ppbv)
67-64-1	Acetone	5.0
71-43-2	Benzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
75-27-4	Bromodichloromethane	0.50
75-25-2	Bromoform	0.50
74-83-9	Bromomethane	5.0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
75-15-0	Carbon Disulfide	2.0
56-23-5	Carbon Tetrachloride	0.50
108-90-7	Chlorobenzene	0.50
124-48-1	Dibromochloromethane	0.50
75-00-3	Chloroethane	2.0
67-66-3	Chloroform	0.50
74-87-3	Chloromethane	5.0
106-93-4	1,2-Dibromoethane (EDB)	0.50
95-50-1	1,2-Dichlorobenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
75-34-3	1,1-Dichloroethane	0.50
75-71-8	Freon 12	0.50
107-06-2	1,2-Dichloroethane	0.50
75-35-4	1,1-Dichloroethene	0.50
156-59-2	cis-1,2-Dichloroethene	0.50
156-60-5	trans-1,2-Dichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50
76-14-2	Freon 114	0.50
100-41-4	Ethyl Benzene	0.50
622-96-8	4-Ethyltoluene	0.50
87-68-3	Hexachlorobutadiene	2.0
591-78-6	2-Hexanone	2.0
75-09-2	Methylene Chloride	5.0
108-10-1	4-Methyl-2-pentanone	0.50
100-42-5	Styrene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50
127-18-4	Tetrachloroethene	0.50
108-88-3	Toluene	1.0
120-82-1	1,2,4-Trichlorobenzene	2.0
71-55-6	1,1,1-Trichloroethane	0.50
79-00-5	1,1,2-Trichloroethane	0.50
79-01-6	Trichloroethene	0.50
75-69-4	Freon 11	0.50
76-13-1	Freon 113	0.50

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Method : TO-15 (Sp)-Eurofins TA (CEC, OK)

CAS Number	Compound	Rpt. Limit (ppbv)
95-63-6	1,2,4-Trimethylbenzene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
108-05-4	Vinyl Acetate	2.0
75-01-4	Vinyl Chloride	0.50
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
9999-9999-500	**TVOC Ref. to Hexane**	**10**

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

CHAIN OF CUSTODY RECORD

2509718 No. 2634

EQUUS Environmental, LLC (918) 921-5331

PROJECT NUMBER: CHKSTAT M	PROJECT NAME: CHK STATE M	COC 1 of 1	
SHIPPED TO: AIR TOXICS	PROJECT MANAGER: MATT MUGAVERO	TAT: STANDARD	
SAMPLER'S PRINTED NAME: Eric Farrar		PO# —	WO# —
SAMPLERS SIGNATURE:			

* C6 - C12 (TVOC as hexane)

	Date	Time	Sample ID	Sample Matrix	# of Sample Containers	TO-15	TVOC as Hexane *	REMARKS
01A	9-23-25	11:45	20250923M-1	air	1	✓	✓	TAG: N3544

INITIAL °C: ___ CF: ___ FINAL °C: NA u 9/25/25

PROBE: ___ TIME STORED:

CUSTODY SEAL? YES NO (NONE)

CARRIER: Fed up

TOTAL NUMBER OF CONTAINERS → 1

RELINQUISHED BY:	DATE 9-23-25	RECEIVED BY:	DATE 9/25/25
	TIME 14:00		TIME 0939
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

METHOD OF SHIPMENT: FedEx

AIRBILL NUMBER: 4591 0583 7121

RECEIVED IN LABORATORY BY:

DATE

TIME

Send PDF, EDD, and INVOICE (if applicable) to: QAQC@EquusEnv.com

LABORATORY CONTACT: KEN 615-301-5035

LABORATORY ADDRESS: 180 CRAVINE BLVD. STE. B FOLSOM, CA 95630

White: Receiving Lab Yellow: Equus Environmental Project File Pink: Equus QA/QC

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Method : TO-15 (Sp)-Eurofins TA (CEC, OK)

CAS Number	Compound	Rpt. Limit (ppbv)
67-64-1	Acetone	5.0
71-43-2	Benzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
75-27-4	Bromodichloromethane	0.50
75-25-2	Bromoform	0.50
74-83-9	Bromomethane	5.0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
75-15-0	Carbon Disulfide	2.0
56-23-5	Carbon Tetrachloride	0.50
108-90-7	Chlorobenzene	0.50
124-48-1	Dibromochloromethane	0.50
75-00-3	Chloroethane	2.0
67-66-3	Chloroform	0.50
74-87-3	Chloromethane	5.0
106-93-4	1,2-Dibromoethane (EDB)	0.50
95-50-1	1,2-Dichlorobenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
75-34-3	1,1-Dichloroethane	0.50
75-71-8	Freon 12	0.50
107-06-2	1,2-Dichloroethane	0.50
75-35-4	1,1-Dichloroethene	0.50
156-59-2	cis-1,2-Dichloroethene	0.50
156-60-5	trans-1,2-Dichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50
76-14-2	Freon 114	0.50
100-41-4	Ethyl Benzene	0.50
622-96-8	4-Ethyltoluene	0.50
87-68-3	Hexachlorobutadiene	2.0
591-78-6	2-Hexanone	2.0
75-09-2	Methylene Chloride	5.0
108-10-1	4-Methyl-2-pentanone	0.50
100-42-5	Styrene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50
127-18-4	Tetrachloroethene	0.50
108-88-3	Toluene	1.0
120-82-1	1,2,4-Trichlorobenzene	2.0
71-55-6	1,1,1-Trichloroethane	0.50

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Method : TO-15 (Sp)-Eurofins TA (CEC, OK)

CAS Number	Compound	Rpt. Limit (ppbv)
79-00-5	1,1,2-Trichloroethane	0.50
79-01-6	Trichloroethene	0.50
75-69-4	Freon 11	0.50
76-13-1	Freon 113	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
108-05-4	Vinyl Acetate	2.0
75-01-4	Vinyl Chloride	0.50
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
9999-9999-500	TVOC Ref. to Hexane	10

CAS Number	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

Login Sample Receipt Checklist

Client: Expand Energy

Job Number: 180-197071-1
SDG Number: Property ID: 891077

Login Number: 197071
List Number: 1
Creator: Hayes, Ken

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dana Drury
Expand Energy
PO BOX 548806
Oklahoma City, Oklahoma 73154

Generated 4/22/2026 10:03:25 AM Revision 1

JOB DESCRIPTION

Equus - Chesapeake
Property ID: 891077

JOB NUMBER

180-199961-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

my EOL

Eurofins Pittsburgh

Job Notes

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PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization

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4/22/2026 10:03:25 AM
Revision 1

Authorized for release by
Ken Hayes, Project Manager II
Ken.Hayes@et.eurofinsus.com
(615)301-5035

Client: Expand Energy
Project/Site: Equus - Chesapeake

Laboratory Job ID: 180-199961-1
SDG: Property ID: 891077

Table of Contents

Case Narrative

Client: Expand Energy
Project: Equus - Chesapeake

Job ID: 180-199961-1

Job ID: 180-199961-1 Eurofins Pittsburgh

Job Narrative
180-199961-1

REVISION
The report being provided is a revision of the original report sent on 1/20/2026. The report (revision 1) is being revised due to Removing several analytes and adding Vinyl Acetate and Total VOCs referenced to Hexane.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 12/19/2025 9:18 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Air - GC/MS VOA
Method TO-15: The TVOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of Hexane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Laboratory: Eurofins Environment Testing Northern California, Air Toxics

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	18-006	11-17-26
ANAB	Dept. of Energy	ADE-1451.01	04-27-26
ANAB	ISO/IEC 17025	ADE-1451	04-27-26
Arizona	State	AZ0775	11-14-26
Florida	NELAP	E87680	06-30-26
Louisiana (All)	NELAP	30763	06-30-26
Minnesota	NELAP	066-999-493	12-31-26
New Hampshire	NELAP	2092	09-30-26
New Jersey	NELAP	CA016	06-30-26
New York	NELAP	11291	04-01-26
Oregon	NELAP	CA300005	10-17-26
Texas	NELAP	T104704434	09-30-26
Utah	NELAP	CA009332025-17	07-31-26
Virginia	NELAP	460197	09-30-26
Washington	State	C935	05-12-26

Sample Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-199961-1	20251216M-1	Air	12/16/25 12:20	12/19/25 09:18	Air Canister (6-Liter) #6L1748

Method Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Air (GC/MS)	EPA	Air Toxics

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

Air Toxics = Eurofins Environment Testing Northern California, Air Toxics, 180 BLUE RAVINE ROAD, SUITE B, Folsom, CA 95630, TEL (916)985-1000

Lab Chronicle

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Client Sample ID: 20251216M-1
Date Collected: 12/16/25 12:20
Date Received: 12/19/25 09:18

Lab Sample ID: 180-199961-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.441	200 mL	200 mL	6318	12/26/25 22:47	AE	Air Toxics
	Instrument ID: MSDP									

Laboratory References:
Air Toxics = Eurofins Environment Testing Northern California, Air Toxics, 180 BLUE RAVINE ROAD, SUITE B, Folsom, CA 95630, TEL (916)985-1000

Analyst References:
Lab: Air Toxics
Batch Type: Analysis
AE = Alanna Evans

Client Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Client Sample ID: 20251216M-1

Date Collected: 12/16/25 12:20
Date Received: 12/19/25 09:18
Sample Container: Summa Canister 6L

Lab Sample ID: 180-199961-1

Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Air (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Styrene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
alpha-Chlorotoluene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
cis-1,3-Dichloropropene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
trans-1,3-Dichloropropene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,4-Dichlorobenzene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,2-Dibromoethane (EDB)	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,2-Dichloroethane	ND		1.22		ppb v/v			12/26/25 22:47	2.441
4-Methyl-2-pentanone (MIBK)	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,3,5-Trimethylbenzene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Toluene	ND		2.44		ppb v/v			12/26/25 22:47	2.441
Chlorobenzene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,2,4-Trichlorobenzene	ND		4.88		ppb v/v			12/26/25 22:47	2.441
Dibromochloromethane	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Tetrachloroethene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
cis-1,2-Dichloroethene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
trans-1,2-Dichloroethene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
m,p-Xylene	ND		2.44		ppb v/v			12/26/25 22:47	2.441
1,3-Dichlorobenzene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Carbon tetrachloride	ND		1.22		ppb v/v			12/26/25 22:47	2.441
2-Hexanone	ND		4.88		ppb v/v			12/26/25 22:47	2.441
4-Ethyltoluene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Acetone	ND		12.2		ppb v/v			12/26/25 22:47	2.441
Chloroform	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Benzene	**2.76**		1.22		ppb v/v			12/26/25 22:47	2.441
1,1,1-Trichloroethane	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Bromomethane	ND		2.44		ppb v/v			12/26/25 22:47	2.441
Chloromethane	ND		12.2		ppb v/v			12/26/25 22:47	2.441
Chloroethane	ND		4.88		ppb v/v			12/26/25 22:47	2.441
Vinyl chloride	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Methylene Chloride	ND		2.44		ppb v/v			12/26/25 22:47	2.441
Carbon disulfide	ND		4.88		ppb v/v			12/26/25 22:47	2.441
Bromoform	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Bromodichloromethane	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,1-Dichloroethane	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,1-Dichloroethene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Freon 11	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Freon 12	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Freon 113	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Freon-114	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,2-Dichloropropane	ND		1.22		ppb v/v			12/26/25 22:47	2.441
2-Butanone (MEK)	ND		4.88		ppb v/v			12/26/25 22:47	2.441
1,1,2-Trichloroethane	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Trichloroethene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,1,2,2-Tetrachloroethane	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Hexachlorobutadiene	ND		4.88		ppb v/v			12/26/25 22:47	2.441
o-Xylene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
1,2-Dichlorobenzene	ND		1.22		ppb v/v			12/26/25 22:47	2.441

Client Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Client Sample ID: 20251216M-1
Date Collected: 12/16/25 12:20
Date Received: 12/19/25 09:18
Sample Container: Summa Canister 6L

Lab Sample ID: 180-199961-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Air (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.22		ppb v/v			12/26/25 22:47	2.441
Total VOC as Hexane (C6-C12)	**198**		24.4		ppb v/v			12/26/25 22:47	2.441
Vinyl acetate	ND		4.88		ppb v/v			12/26/25 22:47	2.441

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/26/25 22:47*	*2.441*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/26/25 22:47*	*2.441*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*12/26/25 22:47*	*2.441*

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Method: TO-15 - Volatile Organic Compounds in Air (GC/MS)

Lab Sample ID: MB 650-6318/8
Matrix: Air
Analysis Batch: 6318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.500		ppb v/v			12/26/25 11:42	1
Styrene	ND		0.500		ppb v/v			12/26/25 11:42	1
alpha-Chlorotoluene	ND		0.500		ppb v/v			12/26/25 11:42	1
cis-1,3-Dichloropropene	ND		0.500		ppb v/v			12/26/25 11:42	1
trans-1,3-Dichloropropene	ND		0.500		ppb v/v			12/26/25 11:42	1
1,4-Dichlorobenzene	ND		0.500		ppb v/v			12/26/25 11:42	1
1,2-Dibromoethane (EDB)	ND		0.500		ppb v/v			12/26/25 11:42	1
1,2-Dichloroethane	ND		0.500		ppb v/v			12/26/25 11:42	1
4-Methyl-2-pentanone (MIBK)	ND		0.500		ppb v/v			12/26/25 11:42	1
1,3,5-Trimethylbenzene	ND		0.500		ppb v/v			12/26/25 11:42	1
Toluene	ND		1.00		ppb v/v			12/26/25 11:42	1
Chlorobenzene	ND		0.500		ppb v/v			12/26/25 11:42	1
1,2,4-Trichlorobenzene	ND		2.00		ppb v/v			12/26/25 11:42	1
Dibromochloromethane	ND		0.500		ppb v/v			12/26/25 11:42	1
Tetrachloroethene	ND		0.500		ppb v/v			12/26/25 11:42	1
cis-1,2-Dichloroethene	ND		0.500		ppb v/v			12/26/25 11:42	1
trans-1,2-Dichloroethene	ND		0.500		ppb v/v			12/26/25 11:42	1
m,p-Xylene	ND		1.00		ppb v/v			12/26/25 11:42	1
1,3-Dichlorobenzene	ND		0.500		ppb v/v			12/26/25 11:42	1
Carbon tetrachloride	ND		0.500		ppb v/v			12/26/25 11:42	1
2-Hexanone	ND		2.00		ppb v/v			12/26/25 11:42	1
4-Ethyltoluene	ND		0.500		ppb v/v			12/26/25 11:42	1
Acetone	ND		5.00		ppb v/v			12/26/25 11:42	1
Chloroform	ND		0.500		ppb v/v			12/26/25 11:42	1
Benzene	ND		0.500		ppb v/v			12/26/25 11:42	1
1,1,1-Trichloroethane	ND		0.500		ppb v/v			12/26/25 11:42	1
Bromomethane	ND		1.00		ppb v/v			12/26/25 11:42	1
Chloromethane	ND		5.00		ppb v/v			12/26/25 11:42	1
Chloroethane	ND		2.00		ppb v/v			12/26/25 11:42	1
Vinyl chloride	ND		0.500		ppb v/v			12/26/25 11:42	1
Methylene Chloride	ND		1.00		ppb v/v			12/26/25 11:42	1
Carbon disulfide	ND		2.00		ppb v/v			12/26/25 11:42	1
Bromoform	ND		0.500		ppb v/v			12/26/25 11:42	1
Bromodichloromethane	ND		0.500		ppb v/v			12/26/25 11:42	1
1,1-Dichloroethane	ND		0.500		ppb v/v			12/26/25 11:42	1
1,1-Dichloroethene	ND		0.500		ppb v/v			12/26/25 11:42	1
Freon 11	ND		0.500		ppb v/v			12/26/25 11:42	1
Freon 12	ND		0.500		ppb v/v			12/26/25 11:42	1
Freon 113	ND		0.500		ppb v/v			12/26/25 11:42	1
Freon-114	ND		0.500		ppb v/v			12/26/25 11:42	1
1,2-Dichloropropane	ND		0.500		ppb v/v			12/26/25 11:42	1
2-Butanone (MEK)	ND		2.00		ppb v/v			12/26/25 11:42	1
1,1,2-Trichloroethane	ND		0.500		ppb v/v			12/26/25 11:42	1
Trichloroethene	ND		0.500		ppb v/v			12/26/25 11:42	1
1,1,2,2-Tetrachloroethane	ND		0.500		ppb v/v			12/26/25 11:42	1
Hexachlorobutadiene	ND		2.00		ppb v/v			12/26/25 11:42	1
o-Xylene	ND		0.500		ppb v/v			12/26/25 11:42	1
1,2-Dichlorobenzene	ND		0.500		ppb v/v			12/26/25 11:42	1

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Method: TO-15 - Volatile Organic Compounds in Air (GC/MS) (Continued)

Lab Sample ID: MB 650-6318/8
Matrix: Air
Analysis Batch: 6318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.500		ppb v/v			12/26/25 11:42	1
Vinyl acetate	ND		2.00		ppb v/v			12/26/25 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/26/25 11:42*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/26/25 11:42*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*12/26/25 11:42*	*1*

Lab Sample ID: LCS 650-6318/4
Matrix: Air
Analysis Batch: 6318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	20.0	19.20		ppb v/v		96	70 - 130
Styrene	20.0	22.68		ppb v/v		114	70 - 130
alpha-Chlorotoluene	20.0	23.16		ppb v/v		116	70 - 130
cis-1,3-Dichloropropene	20.0	22.44		ppb v/v		112	70 - 130
trans-1,3-Dichloropropene	20.0	22.73		ppb v/v		114	70 - 130
1,4-Dichlorobenzene	20.0	22.18		ppb v/v		111	70 - 130
1,2-Dibromoethane (EDB)	20.0	23.55		ppb v/v		118	70 - 130
1,2-Dichloroethane	20.0	21.05		ppb v/v		105	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.02		ppb v/v		100	70 - 130
1,3,5-Trimethylbenzene	20.0	22.57		ppb v/v		113	70 - 130
Toluene	20.0	20.63		ppb v/v		103	70 - 130
Chlorobenzene	20.0	19.67		ppb v/v		99	70 - 130
1,2,4-Trichlorobenzene	22.3	20.73		ppb v/v		93	70 - 130
Dibromochloromethane	20.0	22.99		ppb v/v		115	70 - 130
Tetrachloroethene	20.0	19.11		ppb v/v		96	70 - 130
cis-1,2-Dichloroethene	20.0	20.25		ppb v/v		101	70 - 130
trans-1,2-Dichloroethene	20.0	20.61		ppb v/v		103	70 - 130
m,p-Xylene	20.0	19.65		ppb v/v		98	70 - 130
1,3-Dichlorobenzene	20.0	22.97		ppb v/v		115	70 - 130
Carbon tetrachloride	20.0	19.97		ppb v/v		100	70 - 130
2-Hexanone	20.0	22.19		ppb v/v		111	70 - 130
4-Ethyltoluene	20.0	23.67		ppb v/v		119	70 - 130
Acetone	20.0	19.28		ppb v/v		97	70 - 130
Chloroform	20.0	19.19		ppb v/v		96	70 - 130
Benzene	20.0	21.23		ppb v/v		106	70 - 130
1,1,1-Trichloroethane	20.0	20.75		ppb v/v		104	70 - 130
Bromomethane	20.0	23.40		ppb v/v		117	70 - 130
Chloromethane	20.0	26.03		ppb v/v		130	70 - 130
Chloroethane	20.0	22.37		ppb v/v		112	70 - 130
Vinyl chloride	20.0	23.94		ppb v/v		120	70 - 130
Methylene Chloride	20.0	21.08		ppb v/v		106	70 - 130
Carbon disulfide	20.0	20.67		ppb v/v		104	70 - 130
Bromoform	20.0	23.03		ppb v/v		115	70 - 130
Bromodichloromethane	20.0	23.74		ppb v/v		119	70 - 130
1,1-Dichloroethane	20.0	22.96		ppb v/v		115	70 - 130

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Method: TO-15 - Volatile Organic Compounds in Air (GC/MS) (Continued)

Lab Sample ID: LCS 650-6318/4
Matrix: Air
Analysis Batch: 6318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.0	20.81		ppb v/v		104	70 - 130		
Freon 11			20.0	21.50		ppb v/v		108	70 - 130		
Freon 12			20.0	21.37		ppb v/v		107	70 - 130		
Freon 113			20.0	20.62		ppb v/v		103	70 - 130		
Freon-114			20.0	20.82		ppb v/v		104	70 - 130		
1,2-Dichloropropane			20.0	21.23		ppb v/v		106	70 - 130		
2-Butanone (MEK)			20.0	18.29		ppb v/v		92	70 - 130		
1,1,2-Trichloroethane			20.0	23.90		ppb v/v		120	70 - 130		
Trichloroethene			20.0	19.70		ppb v/v		99	70 - 130		
1,1,2,2-Tetrachloroethane			20.0	24.37		ppb v/v		122	70 - 130		
Hexachlorobutadiene			22.2	21.63		ppb v/v		98	70 - 130		
o-Xylene			20.0	19.43		ppb v/v		97	70 - 130		
1,2-Dichlorobenzene			20.0	23.58		ppb v/v		118	70 - 130		
1,2,4-Trimethylbenzene			20.0	22.52		ppb v/v		113	70 - 130		
Vinyl acetate			20.0	20.66		ppb v/v		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 650-6318/5
Matrix: Air
Analysis Batch: 6318

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			20.0	17.80		ppb v/v		89	70 - 130	8	25
Styrene			20.0	20.70		ppb v/v		104	70 - 130	9	25
alpha-Chlorotoluene			20.0	21.40		ppb v/v		107	70 - 130	8	25
cis-1,3-Dichloropropene			20.0	21.55		ppb v/v		108	70 - 130	4	25
trans-1,3-Dichloropropene			20.0	20.96		ppb v/v		105	70 - 130	8	25
1,4-Dichlorobenzene			20.0	20.38		ppb v/v		102	70 - 130	8	25
1,2-Dibromoethane (EDB)			20.0	21.58		ppb v/v		108	70 - 130	9	25
1,2-Dichloroethane			20.0	19.57		ppb v/v		98	70 - 130	7	25
4-Methyl-2-pentanone (MIBK)			20.0	18.37		ppb v/v		92	70 - 130	9	25
1,3,5-Trimethylbenzene			20.0	20.11		ppb v/v		101	70 - 130	12	25
Toluene			20.0	19.55		ppb v/v		98	70 - 130	5	25
Chlorobenzene			20.0	17.94		ppb v/v		90	70 - 130	9	25
1,2,4-Trichlorobenzene			22.3	19.32		ppb v/v		86	70 - 130	7	25
Dibromochloromethane			20.0	21.10		ppb v/v		106	70 - 130	9	25
Tetrachloroethene			20.0	17.77		ppb v/v		89	70 - 130	7	25
cis-1,2-Dichloroethene			20.0	19.67		ppb v/v		99	70 - 130	3	25
trans-1,2-Dichloroethene			20.0	20.22		ppb v/v		101	70 - 130	2	25
m,p-Xylene			20.0	17.94		ppb v/v		90	70 - 130	9	25
1,3-Dichlorobenzene			20.0	21.10		ppb v/v		106	70 - 130	8	25
Carbon tetrachloride			20.0	19.94		ppb v/v		100	70 - 130	0	25
2-Hexanone			20.0	20.48		ppb v/v		103	70 - 130	8	25
4-Ethyltoluene			20.0	21.47		ppb v/v		108	70 - 130	10	25

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Method: TO-15 - Volatile Organic Compounds in Air (GC/MS) (Continued)

Lab Sample ID: LCSD 650-6318/5
Matrix: Air
Analysis Batch: 6318

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			20.0	18.90		ppb v/v		95	70 - 130	2	25
Chloroform			20.0	18.94		ppb v/v		95	70 - 130	1	25
Benzene			20.0	20.13		ppb v/v		101	70 - 130	5	25
1,1,1-Trichloroethane			20.0	20.65		ppb v/v		103	70 - 130	0	25
Bromomethane			20.0	23.18		ppb v/v		116	70 - 130	1	25
Chloromethane			20.0	24.61		ppb v/v		123	70 - 130	6	25
Chloroethane			20.0	22.97		ppb v/v		115	70 - 130	3	25
Vinyl chloride			20.0	23.55		ppb v/v		118	70 - 130	2	25
Methylene Chloride			20.0	20.26		ppb v/v		102	70 - 130	4	25
Carbon disulfide			20.0	20.51		ppb v/v		103	70 - 130	1	25
Bromoform			20.0	20.92		ppb v/v		105	70 - 130	10	25
Bromodichloromethane			20.0	22.55		ppb v/v		113	70 - 130	5	25
1,1-Dichloroethane			20.0	22.67		ppb v/v		114	70 - 130	1	25
1,1-Dichloroethene			20.0	20.99		ppb v/v		105	70 - 130	1	25
Freon 11			20.0	21.12		ppb v/v		106	70 - 130	2	25
Freon 12			20.0	20.85		ppb v/v		104	70 - 130	2	25
Freon 113			20.0	20.53		ppb v/v		103	70 - 130	0	25
Freon-114			20.0	20.82		ppb v/v		104	70 - 130	0	25
1,2-Dichloropropane			20.0	20.09		ppb v/v		101	70 - 130	6	25
2-Butanone (MEK)			20.0	18.03		ppb v/v		90	70 - 130	1	25
1,1,2-Trichloroethane			20.0	21.98		ppb v/v		110	70 - 130	8	25
Trichloroethene			20.0	18.62		ppb v/v		93	70 - 130	6	25
1,1,2,2-Tetrachloroethane			20.0	22.41		ppb v/v		112	70 - 130	8	25
Hexachlorobutadiene			22.2	20.28		ppb v/v		92	70 - 130	6	25
o-Xylene			20.0	17.97		ppb v/v		90	70 - 130	8	25
1,2-Dichlorobenzene			20.0	21.18		ppb v/v		106	70 - 130	11	25
1,2,4-Trimethylbenzene			20.0	20.69		ppb v/v		104	70 - 130	8	25
Vinyl acetate			20.0	21.08		ppb v/v		106	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

QC Association Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-199961-1
SDG: Property ID: 891077

Air - GC/MS VOA

Analysis Batch: 6318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-199961-1	20251216M-1	Total/NA	Air	TO-15	
MB 650-6318/8	Method Blank	Total/NA	Air	TO-15	
LCS 650-6318/4	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 650-6318/5	Lab Control Sample Dup	Total/NA	Air	TO-15	

CHAIN OF CUSTODY RECORD

No. 2878

EQUUS Environmental LLC (918) 921-5331

PROJECT NUMBER: CHKSTATM	PROJECT NAME: CHK SITEM
SHIPPED TO: AIR TOXICS	PROJECT MANAGER: MATT MUCAVERO
COC ____ of 1	TAT: STANDARD
PO#	WO#

SAMPLER'S PRINTED NAME: Eric Farrar

SAMPLERS SIGNATURE: [signature]

Date	Time	Sample ID	Sample Matrix	# of Sample Containers	TO-15	TVOCs hexane*	REMARKS
12-16-2025	12:20	20251216 M-1	AIR	1	X	X	TA # N2874

*TVOCs C6-C12 (HEXANE)

INITIAL °C:___ CF:___ FINAL °C:___ (12/17/25)

PROBE:___ TIME STORED:

CUSTODY SEAL? YES NO **NONE** (circled)

CARRIER: FedEx

EF

TOTAL NUMBER OF CONTAINERS → 1

RELINQUISHED BY: [signature]	DATE 12-16-2025 TIME 15:00	RECEIVED BY: EATL 12/17/25	DATE 12/17/25 TIME 1023
RELINQUISHED BY:	DATE TIME	RECEIVED BY:	DATE TIME
METHOD OF SHIPMENT: FEDEX		AIRBILL NUMBER: 4874 6307 5809	
RECEIVED IN LABORATORY BY:	DATE TIME	Send PDF, EDD, and INVOICE (if applicable) to: QAQC@EqusEnv.com	
LABORATORY CONTACT: KEN 615-301-5035		LABORATORY ADDRESS: 180 S. BLUE RAVINE RD STE B FOLSOM, CA 95630	

180-199961 COC

White Receiving Lab Yellow Equus Environmental Project File Pink Equus QA/QC

Login Sample Receipt Checklist

Client: Expand Energy

Job Number: 180-199961-1
SDG Number: Property ID: 891077

Login Number: 199961
List Number: 1
Creator: Hayes, Ken

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Pressurization Information Report

Client Sample ID: 20251216M-1
Lab Sample ID: 180-199961-1

Initial Pressure	Initial Units	Final Pressure	Final Units
16	inHgV	2	psig

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dana Drury
Expand Energy
PO BOX 548806
Oklahoma City, Oklahoma 73154

Generated 4/22/2026 5:23:46 PM Revision 2

JOB DESCRIPTION

Equus - Chesapeake
Property ID 891077

JOB NUMBER

180-203261-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

my EOL

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization

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Revision 2

Authorized for release by
Ken Hayes, Project Manager II
Ken.Hayes@et.eurofinsus.com
(615)301-5035

Client: Expand Energy
Project/Site: Equus - Chesapeake

Laboratory Job ID: 180-203261-1
SDG: Property ID 891077

Table of Contents

Case Narrative

Client: Expand Energy
Project: Equus - Chesapeake

Job ID: 180-203261-1

Job ID: 180-203261-1 Eurofins Pittsburgh

Job Narrative
180-203261-1

REVISION

The report being provided is a revision of the original report sent on 4/2/2026. The report (revision 2) is being revised due to removing several un-needed analytes.

Report revision history
Revision 1 - 4/20/2026 - Reason - Removing several analytes and adding Vinyl Acetate and Total VOCs referenced to Hexane.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 3/24/2026 4:33 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Air - GC/MS VOA
Method TO-15: During the canister pressure check performed upon receipt, it was observed that the following sample was received at an elevated residual vacuum level: 20260317M-1 (180-203261-1). The client was contacted, and the laboratory was instructed to proceed with analysis.

Method TO-15: The initial calibration verification (ICV) result for batch 410-792508 was above the upper control limit. The affected analytes are: Ethanol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: Expand Energy
Project: Equus - Chesapeake

Job ID: 180-203261-1

Job ID: 180-203261-2 Eurofins Pittsburgh

Job Narrative
180-203261-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 3/24/2026 4:33 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Air - GC/MS VOA
Method TO-15: The TVOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of Hexane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Laboratory: Eurofins Environment Testing Northern California, Air Toxics

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	18-006	11-17-26
ANAB	Dept. of Energy	ADE-1451.01	04-27-26
ANAB	ISO/IEC 17025	ADE-1451	04-27-26
Arizona	State	AZ0775	11-14-26
Florida	NELAP	E87680	06-30-26
Louisiana (All)	NELAP	30763	06-30-26
Minnesota	NELAP	066-999-493	12-31-26
New Hampshire	NELAP	2092	09-30-26
New Jersey	NELAP	CA016	06-30-26
New York	NELAP	11291	04-01-26 *
Oregon	NELAP	CA300005	10-17-26
Texas	NELAP	T104704434	09-30-26
Utah	NELAP	CA009332025-17	07-31-26
Virginia	NELAP	460197	09-30-26
Washington	State	C935	05-12-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	04-15-26
A2LA	Dept. of Energy	0001.01	04-15-26
A2LA	ISO/IEC 17025	0001.01	04-15-26
Alabama	State	43200	01-31-27
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-27
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26 *
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-27
Delaware (DW)	State	N/A	01-31-27
Florida	NELAP	E87997	06-30-26
Georgia (DW)	State	C048	01-31-27
Illinois	NELAP	200027	01-31-27
Iowa	State	361	03-01-28
Kansas	NELAP	E-10151	10-31-26
Kentucky (DW)	State	KY90088	12-31-26
Kentucky (UST)	State	0001.01	04-15-26
Kentucky (WW)	State	KY90088	12-31-26
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	04-12-26
Maryland	State	100	06-30-26
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-27
Minnesota	NELAP	042-999-487	12-31-26
Mississippi	State	023	01-31-27
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-27

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Nebraska	State	NE-OS-32-17	01-31-27
New Hampshire	NELAP	2730	01-10-27
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-27
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	04-05-26
North Dakota	State	R-205	01-31-24 *
Ohio	State	87787	01-31-27
Oklahoma	NELAP	9804	12-13-26
Oregon	NELAP	PA200001	09-11-26
Pennsylvania	NELAP	36-00037	01-31-27
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-31-26
South Carolina	State	89002	01-31-27
Tennessee	State	02838	01-31-27
Texas	NELAP	T104704194-23-46	08-31-26
USDA	US Federal Programs	525-22-298-19481	04-10-26
Vermont	State	VT - 36037	10-28-26
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	01-31-27
West Virginia DEP	State	055	07-31-26
Wyoming	State	8TMS-L	01-31-27
Wyoming (UST)	A2LA	0001.01	04-15-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-203261-1	20260317M-1	Air	03/17/26 12:50	03/24/26 16:33	Air Canister (6-Liter) #34001356

Method Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Lab Chronicle

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Client Sample ID: 20260317M-1
Date Collected: 03/17/26 12:50
Date Received: 03/24/26 16:33

Lab Sample ID: 180-203261-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	200 mL	792508	04/01/26 16:23	ZM3Q	ELLE
	Instrument ID: HP26379									
Total/NA	Analysis	TO-15		1.259	200 mL	200 mL	16194	04/15/26 23:02	JF	Air Toxics
	Instrument ID: MSDP									

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Analyst References:

Lab: Air Toxics
Batch Type: Analysis
JF = Jasmine Fletcher
Lab: ELLE
Batch Type: Analysis
ZM3Q = Jeremiah Stone

Client Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Client Sample ID: 20260317M-1

Date Collected: 03/17/26 12:50
Date Received: 03/24/26 16:33
Sample Container: Summa Canister 6L

Lab Sample ID: 180-203261-1

Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Air (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.52		ppb v/v			04/15/26 23:02	1.259
Total VOC as Hexane (C6-C12)	ND		12.6		ppb v/v			04/15/26 23:02	1.259

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/15/26 23:02*	*1.259*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/15/26 23:02*	*1.259*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/15/26 23:02*	*1.259*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ppb v/v			04/01/26 16:23	1
1,1,2,2-Tetrachloroethane	ND		1.00		ppb v/v			04/01/26 16:23	1
1,1,2-Trichloroethane	ND		1.00		ppb v/v			04/01/26 16:23	1
1,1-Dichloroethane	ND		1.00		ppb v/v			04/01/26 16:23	1
1,1-Dichloroethene	ND		1.00		ppb v/v			04/01/26 16:23	1
1,2,4-Trichlorobenzene	ND		2.00		ppb v/v			04/01/26 16:23	1
1,2,4-Trimethylbenzene	ND		2.00		ppb v/v			04/01/26 16:23	1
1,2-Dibromoethane (EDB)	ND		1.00		ppb v/v			04/01/26 16:23	1
1,2-Dichlorobenzene	ND		1.00		ppb v/v			04/01/26 16:23	1
1,2-Dichloroethane	ND		1.00		ppb v/v			04/01/26 16:23	1
1,2-Dichloropropane	ND		1.00		ppb v/v			04/01/26 16:23	1
1,3,5-Trimethylbenzene	ND		2.00		ppb v/v			04/01/26 16:23	1
1,3-Dichlorobenzene	ND		1.00		ppb v/v			04/01/26 16:23	1
1,4-Dichlorobenzene	ND		1.00		ppb v/v			04/01/26 16:23	1
2-Butanone (MEK)	**4.79**		1.00		ppb v/v			04/01/26 16:23	1
2-Hexanone	ND		2.00		ppb v/v			04/01/26 16:23	1
4-Ethyltoluene	ND		1.00		ppb v/v			04/01/26 16:23	1
4-Methyl-2-pentanone (MIBK)	ND		1.00		ppb v/v			04/01/26 16:23	1
Acetone	**28.7**		5.00		ppb v/v			04/01/26 16:23	1
alpha-Chlorotoluene	ND		2.00		ppb v/v			04/01/26 16:23	1
Benzene	**1.63**		1.00		ppb v/v			04/01/26 16:23	1
Bromodichloromethane	ND		1.00		ppb v/v			04/01/26 16:23	1
Bromoform	ND		1.00		ppb v/v			04/01/26 16:23	1
Bromomethane	ND		1.00		ppb v/v			04/01/26 16:23	1
Carbon disulfide	ND		1.00		ppb v/v			04/01/26 16:23	1
Carbon tetrachloride	ND		1.00		ppb v/v			04/01/26 16:23	1
Chlorobenzene	ND		1.00		ppb v/v			04/01/26 16:23	1
Chloroethane	ND		1.00		ppb v/v			04/01/26 16:23	1
Chloroform	ND		1.00		ppb v/v			04/01/26 16:23	1
Chloromethane	ND		1.00		ppb v/v			04/01/26 16:23	1
cis-1,2-Dichloroethene	ND		1.00		ppb v/v			04/01/26 16:23	1
cis-1,3-Dichloropropene	ND		1.00		ppb v/v			04/01/26 16:23	1
Dibromochloromethane	ND		1.00		ppb v/v			04/01/26 16:23	1
Ethylbenzene	ND		1.00		ppb v/v			04/01/26 16:23	1
Freon 11	ND		1.00		ppb v/v			04/01/26 16:23	1
Freon 113	ND		1.00		ppb v/v			04/01/26 16:23	1
Freon 12	ND		1.00		ppb v/v			04/01/26 16:23	1
Freon-114	ND		1.00		ppb v/v			04/01/26 16:23	1
Hexachlorobutadiene	ND		2.00		ppb v/v			04/01/26 16:23	1

Client Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Client Sample ID: 20260317M-1

Date Collected: 03/17/26 12:50
Date Received: 03/24/26 16:33
Sample Container: Summa Canister 6L

Lab Sample ID: 180-203261-1

Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		1.00		ppb v/v			04/01/26 16:23	1
Methylene Chloride	ND		2.00		ppb v/v			04/01/26 16:23	1
o-Xylene	ND		1.00		ppb v/v			04/01/26 16:23	1
Styrene	ND		1.00		ppb v/v			04/01/26 16:23	1
Tetrachloroethene	ND		2.00		ppb v/v			04/01/26 16:23	1
Toluene	ND		1.00		ppb v/v			04/01/26 16:23	1
trans-1,2-Dichloroethene	ND		1.00		ppb v/v			04/01/26 16:23	1
trans-1,3-Dichloropropene	ND		1.00		ppb v/v			04/01/26 16:23	1
Trichloroethene	ND		1.00		ppb v/v			04/01/26 16:23	1
Vinyl chloride	ND		1.00		ppb v/v			04/01/26 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/01/26 16:23*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/01/26 16:23*	*1*

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Method: TO-15 - Volatile Organic Compounds in Air (GC/MS)

Lab Sample ID: MB 650-16194/6
Matrix: Air
Analysis Batch: 16194

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.00		ppb v/v			04/15/26 10:54	1
Total VOC as Hexane (C6-C12)	ND		10.0		ppb v/v			04/15/26 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*04/15/26 10:54*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/15/26 10:54*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/15/26 10:54*	*1*

Lab Sample ID: LCS 650-16194/4
Matrix: Air
Analysis Batch: 16194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl acetate			20.1	18.73		ppb v/v		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 650-16194/5
Matrix: Air
Analysis Batch: 16194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate			20.1	20.34		ppb v/v		101	70 - 130	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 410-792508/6
Matrix: Air
Analysis Batch: 792508

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ppb v/v			04/01/26 08:39	1
1,1,2,2-Tetrachloroethane	ND		1.00		ppb v/v			04/01/26 08:39	1
1,1,2-Trichloroethane	ND		1.00		ppb v/v			04/01/26 08:39	1
1,1-Dichloroethane	ND		1.00		ppb v/v			04/01/26 08:39	1
1,1-Dichloroethene	ND		1.00		ppb v/v			04/01/26 08:39	1
1,2,4-Trichlorobenzene	ND		2.00		ppb v/v			04/01/26 08:39	1
1,2,4-Trimethylbenzene	ND		2.00		ppb v/v			04/01/26 08:39	1
1,2-Dibromoethane (EDB)	ND		1.00		ppb v/v			04/01/26 08:39	1
1,2-Dichlorobenzene	ND		1.00		ppb v/v			04/01/26 08:39	1

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 410-792508/6
Matrix: Air
Analysis Batch: 792508

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ppb v/v			04/01/26 08:39	1
1,2-Dichloropropane	ND		1.00		ppb v/v			04/01/26 08:39	1
1,3,5-Trimethylbenzene	ND		2.00		ppb v/v			04/01/26 08:39	1
1,3-Dichlorobenzene	ND		1.00		ppb v/v			04/01/26 08:39	1
1,4-Dichlorobenzene	ND		1.00		ppb v/v			04/01/26 08:39	1
2-Butanone (MEK)	ND		1.00		ppb v/v			04/01/26 08:39	1
2-Hexanone	ND		2.00		ppb v/v			04/01/26 08:39	1
4-Ethyltoluene	ND		1.00		ppb v/v			04/01/26 08:39	1
4-Methyl-2-pentanone (MIBK)	ND		1.00		ppb v/v			04/01/26 08:39	1
Acetone	ND		5.00		ppb v/v			04/01/26 08:39	1
alpha-Chlorotoluene	ND		2.00		ppb v/v			04/01/26 08:39	1
Benzene	ND		1.00		ppb v/v			04/01/26 08:39	1
Bromodichloromethane	ND		1.00		ppb v/v			04/01/26 08:39	1
Bromoform	ND		1.00		ppb v/v			04/01/26 08:39	1
Bromomethane	ND		1.00		ppb v/v			04/01/26 08:39	1
Carbon disulfide	ND		1.00		ppb v/v			04/01/26 08:39	1
Carbon tetrachloride	ND		1.00		ppb v/v			04/01/26 08:39	1
Chlorobenzene	ND		1.00		ppb v/v			04/01/26 08:39	1
Chloroethane	ND		1.00		ppb v/v			04/01/26 08:39	1
Chloroform	ND		1.00		ppb v/v			04/01/26 08:39	1
Chloromethane	ND		1.00		ppb v/v			04/01/26 08:39	1
cis-1,2-Dichloroethene	ND		1.00		ppb v/v			04/01/26 08:39	1
cis-1,3-Dichloropropene	ND		1.00		ppb v/v			04/01/26 08:39	1
Dibromochloromethane	ND		1.00		ppb v/v			04/01/26 08:39	1
Ethylbenzene	ND		1.00		ppb v/v			04/01/26 08:39	1
Freon 11	ND		1.00		ppb v/v			04/01/26 08:39	1
Freon 113	ND		1.00		ppb v/v			04/01/26 08:39	1
Freon 12	ND		1.00		ppb v/v			04/01/26 08:39	1
Freon-114	ND		1.00		ppb v/v			04/01/26 08:39	1
Hexachlorobutadiene	ND		2.00		ppb v/v			04/01/26 08:39	1
m,p-Xylene	ND		1.00		ppb v/v			04/01/26 08:39	1
Methylene Chloride	ND		2.00		ppb v/v			04/01/26 08:39	1
o-Xylene	ND		1.00		ppb v/v			04/01/26 08:39	1
Styrene	ND		1.00		ppb v/v			04/01/26 08:39	1
Tetrachloroethene	ND		2.00		ppb v/v			04/01/26 08:39	1
Toluene	ND		1.00		ppb v/v			04/01/26 08:39	1
trans-1,2-Dichloroethene	ND		1.00		ppb v/v			04/01/26 08:39	1
trans-1,3-Dichloropropene	ND		1.00		ppb v/v			04/01/26 08:39	1
Trichloroethene	ND		1.00		ppb v/v			04/01/26 08:39	1
Vinyl chloride	ND		1.00		ppb v/v			04/01/26 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/01/26 08:39*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/01/26 08:39*	*1*

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 410-792508/4
Matrix: Air
Analysis Batch: 792508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	8.882		ppb v/v		89	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.706		ppb v/v		97	61 - 130
1,1,2-Trichloroethane	10.0	9.720		ppb v/v		97	70 - 130
1,1-Dichloroethane	10.0	9.467		ppb v/v		95	70 - 130
1,1-Dichloroethene	10.0	10.08		ppb v/v		101	70 - 131
1,2,4-Trichlorobenzene	10.0	11.82		ppb v/v		118	52 - 143
1,2,4-Trimethylbenzene	10.0	9.431		ppb v/v		94	65 - 146
1,2-Dibromoethane (EDB)	10.0	9.796		ppb v/v		98	70 - 130
1,2-Dichlorobenzene	10.0	9.561		ppb v/v		96	61 - 139
1,2-Dichloroethane	10.0	9.125		ppb v/v		91	70 - 131
1,2-Dichloropropane	10.0	9.109		ppb v/v		91	70 - 130
1,3,5-Trimethylbenzene	10.0	9.640		ppb v/v		96	69 - 141
1,3-Dichlorobenzene	10.0	9.674		ppb v/v		97	64 - 140
1,4-Dichlorobenzene	10.0	9.720		ppb v/v		97	64 - 137
2-Butanone (MEK)	10.0	9.250		ppb v/v		93	70 - 130
2-Hexanone	10.0	9.029		ppb v/v		90	57 - 141
4-Ethyltoluene	10.0	9.881		ppb v/v		99	69 - 139
4-Methyl-2-pentanone (MIBK)	10.0	8.619		ppb v/v		86	68 - 133
Acetone	10.0	8.537		ppb v/v		85	70 - 137
alpha-Chlorotoluene	10.0	9.432		ppb v/v		94	57 - 142
Benzene	10.0	9.703		ppb v/v		97	70 - 130
Bromodichloromethane	10.0	9.371		ppb v/v		94	70 - 130
Bromoform	10.0	10.08		ppb v/v		101	60 - 139
Bromomethane	10.0	10.47		ppb v/v		105	70 - 140
Carbon disulfide	10.0	8.632		ppb v/v		86	70 - 130
Carbon tetrachloride	10.0	8.975		ppb v/v		90	70 - 130
Chlorobenzene	10.0	9.470		ppb v/v		95	70 - 130
Chloroethane	10.0	9.042		ppb v/v		90	70 - 131
Chloroform	10.0	9.266		ppb v/v		93	70 - 130
Chloromethane	10.0	7.798		ppb v/v		78	64 - 138
cis-1,2-Dichloroethene	10.0	9.306		ppb v/v		93	70 - 130
cis-1,3-Dichloropropene	10.0	9.583		ppb v/v		96	70 - 130
Dibromochloromethane	10.0	9.807		ppb v/v		98	70 - 130
Ethylbenzene	10.0	9.696		ppb v/v		97	70 - 130
Freon 11	10.0	9.033		ppb v/v		90	70 - 130
Freon 113	10.0	9.837		ppb v/v		98	70 - 130
Freon 12	10.0	8.919		ppb v/v		89	70 - 131
Freon-114	10.0	9.319		ppb v/v		93	70 - 130
Hexachlorobutadiene	10.0	12.00		ppb v/v		120	40 - 157
m,p-Xylene	10.0	10.96		ppb v/v		110	70 - 130
Methylene Chloride	10.0	10.08		ppb v/v		101	70 - 130
o-Xylene	10.0	9.552		ppb v/v		96	70 - 130
Styrene	10.0	9.568		ppb v/v		96	70 - 133
Tetrachloroethene	10.0	9.910		ppb v/v		99	70 - 140
Toluene	10.0	9.694		ppb v/v		97	70 - 130
trans-1,2-Dichloroethene	10.0	8.781		ppb v/v		88	70 - 130
trans-1,3-Dichloropropene	10.0	9.560		ppb v/v		96	70 - 130
Trichloroethene	10.0	9.621		ppb v/v		96	70 - 130

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 410-792508/4
Matrix: Air
Analysis Batch: 792508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			10.0	8.121		ppb v/v		81	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 410-272195-A-2 DU
Matrix: Air
Analysis Batch: 792508

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1-Trichloroethane	ND			ND		ppb v/v				NC	25
1,1,2,2-Tetrachloroethane	ND			ND		ppb v/v				NC	25
1,1,2-Trichloroethane	ND			ND		ppb v/v				NC	25
1,1-Dichloroethane	ND			ND		ppb v/v				NC	25
1,1-Dichloroethene	ND			ND		ppb v/v				NC	25
1,2,4-Trichlorobenzene	ND			ND		ppb v/v				NC	25
1,2,4-Trimethylbenzene	ND			ND		ppb v/v				NC	25
1,2-Dibromoethane (EDB)	ND			ND		ppb v/v				NC	25
1,2-Dichlorobenzene	ND			ND		ppb v/v				NC	25
1,2-Dichloroethane	ND			ND		ppb v/v				NC	25
1,2-Dichloropropane	ND			ND		ppb v/v				NC	25
1,3,5-Trimethylbenzene	ND			ND		ppb v/v				NC	25
1,3-Dichlorobenzene	ND			ND		ppb v/v				NC	25
1,4-Dichlorobenzene	ND			ND		ppb v/v				NC	25
2-Butanone (MEK)	ND			ND		ppb v/v				NC	25
2-Hexanone	ND			ND		ppb v/v				NC	25
4-Ethyltoluene	ND			ND		ppb v/v				NC	25
4-Methyl-2-pentanone (MIBK)	ND			ND		ppb v/v				NC	25
Acetone	21.5			21.83		ppb v/v				2	25
alpha-Chlorotoluene	ND			ND		ppb v/v				NC	25
Benzene	ND			ND		ppb v/v				NC	25
Bromodichloromethane	ND			ND		ppb v/v				NC	25
Bromoform	ND			ND		ppb v/v				NC	25
Bromomethane	ND			ND		ppb v/v				NC	25
Carbon disulfide	ND			ND		ppb v/v				NC	25
Carbon tetrachloride	ND			ND		ppb v/v				NC	25
Chlorobenzene	ND			ND		ppb v/v				NC	25
Chloroethane	ND			ND		ppb v/v				NC	25
Chloroform	ND			ND		ppb v/v				NC	25
Chloromethane	ND			ND		ppb v/v				NC	25
cis-1,2-Dichloroethene	ND			ND		ppb v/v				NC	25
cis-1,3-Dichloropropene	ND			ND		ppb v/v				NC	25
Dibromochloromethane	ND			ND		ppb v/v				NC	25
Ethylbenzene	ND			ND		ppb v/v				NC	25
Freon 11	ND			ND		ppb v/v				NC	25
Freon 113	ND			ND		ppb v/v				NC	25
Freon 12	ND			ND		ppb v/v				NC	25

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 410-272195-A-2 DU
Matrix: Air
Analysis Batch: 792508

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Freon-114	ND			ND		ppb v/v				NC	25
Hexachlorobutadiene	ND			ND		ppb v/v				NC	25
m,p-Xylene	ND			ND		ppb v/v				NC	25
Methylene Chloride	ND			ND		ppb v/v				NC	25
o-Xylene	ND			ND		ppb v/v				NC	25
Styrene	ND			ND		ppb v/v				NC	25
Tetrachloroethene	ND			ND		ppb v/v				NC	25
Toluene	ND			ND		ppb v/v				NC	25
trans-1,2-Dichloroethene	ND			ND		ppb v/v				NC	25
trans-1,3-Dichloropropene	ND			ND		ppb v/v				NC	25
Trichloroethene	ND			ND		ppb v/v				NC	25
Vinyl chloride	ND			ND		ppb v/v				NC	25

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Association Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-203261-1
SDG: Property ID 891077

Air - GC/MS VOA

Analysis Batch: 16194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-203261-1	20260317M-1	Total/NA	Air	TO-15	
MB 650-16194/6	Method Blank	Total/NA	Air	TO-15	
LCS 650-16194/4	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 650-16194/5	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 792508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-203261-1	20260317M-1	Total/NA	Air	TO-15	
MB 410-792508/6	Method Blank	Total/NA	Air	TO-15	
LCS 410-792508/4	Lab Control Sample	Total/NA	Air	TO-15	
410-272195-A-2 DU	Duplicate	Total/NA	Air	TO-15	

180-203261 Chain of Custody

CHAIN OF CUSTODY RECORD

No. 1904

PROJECT NUMBER: CHKSTATM	PROJECT NAME: CHK STATE M	COC 1 of 1
SHIPPED TO: LANCASTER	PROJECT MANAGER: MATT MUGAVERO	TAT: STANDARD

SAMPLER'S PRINTED NAME: Eric Farrar

SAMPLER'S SIGNATURE:

Date	Time	Sample ID	Sample Matrix	# of Sample Containers	TO-15	* Evaluate Hexane
3-17-2026	12:50	20260317M-1	air	1	X	X
TOTAL NUMBER OF CONTAINERS				1		

ASOW:

* C_6-C_{12}

REMARKS

TAG #: C2C3

X EF

RELINQUISHED BY:	DATE 3-19-26	RECEIVED BY:	DATE
	TIME 15:00		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

METHOD OF SHIPMENT: FedEx

AIRBILL NUMBER: 8896 5967 6554

RECEIVED IN LABORATORY BY: ELIOT — DATE 3/20/26 — TIME 10:30

Send PDF, EDD, and INVOICE (If applicable) to:

LABORATORY CONTACT: KEN 615-301-5035

LABORATORY ADDRESS: Xpe 2425 New Holland Pike Lancaster, PA 17601

POINT OF ORIGIN:

received unchilled

Login Sample Receipt Checklist

Client: Expand Energy

Job Number: 180-203261-1
SDG Number: Property ID 891077

Login Number: 203261
List Number: 1
Creator: Hayes, Ken

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: Expand Energy

Job Number: 180-203261-1
SDG Number: Property ID 891077

Login Number: 203261
List Number: 2
Creator: Jeremiah, Cory T

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/25/26 06:26 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	N/A	
Cooler Temperature is recorded.	N/A	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Summa Canister Dilution Worksheet

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job No.: 180-203261-1
SDG No.: Property ID 891077

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
180-203261-1	6	-21.82	0.27	1.62	1.04	1.07	6.42		3.96	3.96		03/31/26 11:29	D7UM

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dana Drury
Expand Energy
PO BOX 548806
Oklahoma City, Oklahoma 73154

Generated 6/22/2025 12:18:14 PM

JOB DESCRIPTION

Equus - Chesapeake

JOB NUMBER

180-191755-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Eurofins Pittsburgh

Job Notes

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PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization

Generated
6/22/2025 12:18:14 PM

Authorized for release by
Ken Hayes, Project Manager II
Ken.Hayes@et.eurofinsus.com
(615)301-5035

Client: Expand Energy
Project/Site: Equus - Chesapeake

Laboratory Job ID: 180-191755-1

Table of Contents

Case Narrative

Client: Expand Energy
Project: Equus - Chesapeake

Job ID: 180-191755-1

Job ID: 180-191755-1 Eurofins Pittsburgh

Job Narrative
180-191755-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/13/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-191755-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-191755-1

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-03-26
Georgia	State	12028 (NJ)	07-01-25
Illinois	NELAP	2000942025-2	04-30-26
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	03-31-26
Pennsylvania	NELAP	68-00522	02-28-26
Rhode Island	State	LAO00376	12-23-25
USDA	US Federal Programs	525-24-149-77606	05-21-27

Sample Summary

Client: Expand Energy

Job ID: 180-191755-1

Project/Site: Equus - Chesapeake

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-191755-1	MW-4	Water	06/12/25 12:05	06/13/25 09:00
180-191755-2	DUP	Water	06/12/25 12:10	06/13/25 09:00
180-191755-3	EQUIPMENT BLANK	Water	06/12/25 10:00	06/13/25 09:00

Method Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-191755-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Lab Chronicle

Client: Expand Energy
Job ID: 180-191755-1
Project/Site: Equus - Chesapeake

Client Sample ID: MW-4
Lab Sample ID: 180-191755-1
Date Collected: 06/12/25 12:05
Matrix: Water
Date Received: 06/13/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		15	10 mL	10 mL	1045310	06/22/25 02:08	OXG	EET EDI
	Instrument ID: IC 1									

Client Sample ID: DUP
Lab Sample ID: 180-191755-2
Date Collected: 06/12/25 12:10
Matrix: Water
Date Received: 06/13/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	1045310	06/21/25 23:09	OXG	EET EDI
	Instrument ID: IC 1									

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 180-191755-3
Date Collected: 06/12/25 10:00
Matrix: Water
Date Received: 06/13/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	1045310	06/21/25 23:24	OXG	EET EDI
	Instrument ID: IC 1									

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Analyst References:

Lab: EET EDI

Batch Type: Analysis

OXG = Olivia Guerrero

Client Sample Results

Client: Expand Energy
Job ID: 180-191755-1
Project/Site: Equus - Chesapeake

Client Sample ID: MW-4
Lab Sample ID: 180-191755-1
Date Collected: 06/12/25 12:05
Matrix: Water
Date Received: 06/13/25 09:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	386		15.0		mg/L			06/22/25 02:08	15

Client Sample ID: DUP
Lab Sample ID: 180-191755-2
Date Collected: 06/12/25 12:10
Matrix: Water
Date Received: 06/13/25 09:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	381		5.00		mg/L			06/21/25 23:09	5

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 180-191755-3
Date Collected: 06/12/25 10:00
Matrix: Water
Date Received: 06/13/25 09:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00		mg/L			06/21/25 23:24	1

QC Sample Results

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-191755-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-1045310/3
Matrix: Water
Analysis Batch: 1045310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00		mg/L			06/21/25 15:52	1

Lab Sample ID: LCS 460-1045310/5
Matrix: Water
Analysis Batch: 1045310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.20	3.186		mg/L		100	90 - 110		

Lab Sample ID: LCSD 460-1045310/6
Matrix: Water
Analysis Batch: 1045310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			3.20	3.110		mg/L		97	90 - 110	2	15

QC Association Summary

Client: Expand Energy
Project/Site: Equus - Chesapeake

Job ID: 180-191755-1

HPLC/IC

Analysis Batch: 1045310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191755-1	MW-4	Total/NA	Water	300.0	
180-191755-2	DUP	Total/NA	Water	300.0	
180-191755-3	EQUIPMENT BLANK	Total/NA	Water	300.0	
MB 460-1045310/3	Method Blank	Total/NA	Water	300.0	
LCS 460-1045310/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-1045310/6	Lab Control Sample Dup	Total/NA	Water	300.0	

CHAIN OF CUSTODY RECORD

No. 2836

EQUUS Environmental LLC (918) 921-5331

PROJECT NUMBER:	CHKSTAT M
SHIPPED TO:	PITT. ~~EDISON~~
PROJECT NAME:	CHKSTATE M
PROJECT MANAGER:	MATT MUCAVERO
COC	1 of 1
TAT:	STANDARD
SAMPLER'S PRINTED NAME:	Eric Farrar
SAMPLERS SIGNATURE:	[signature]
PO#	—
WO#	—

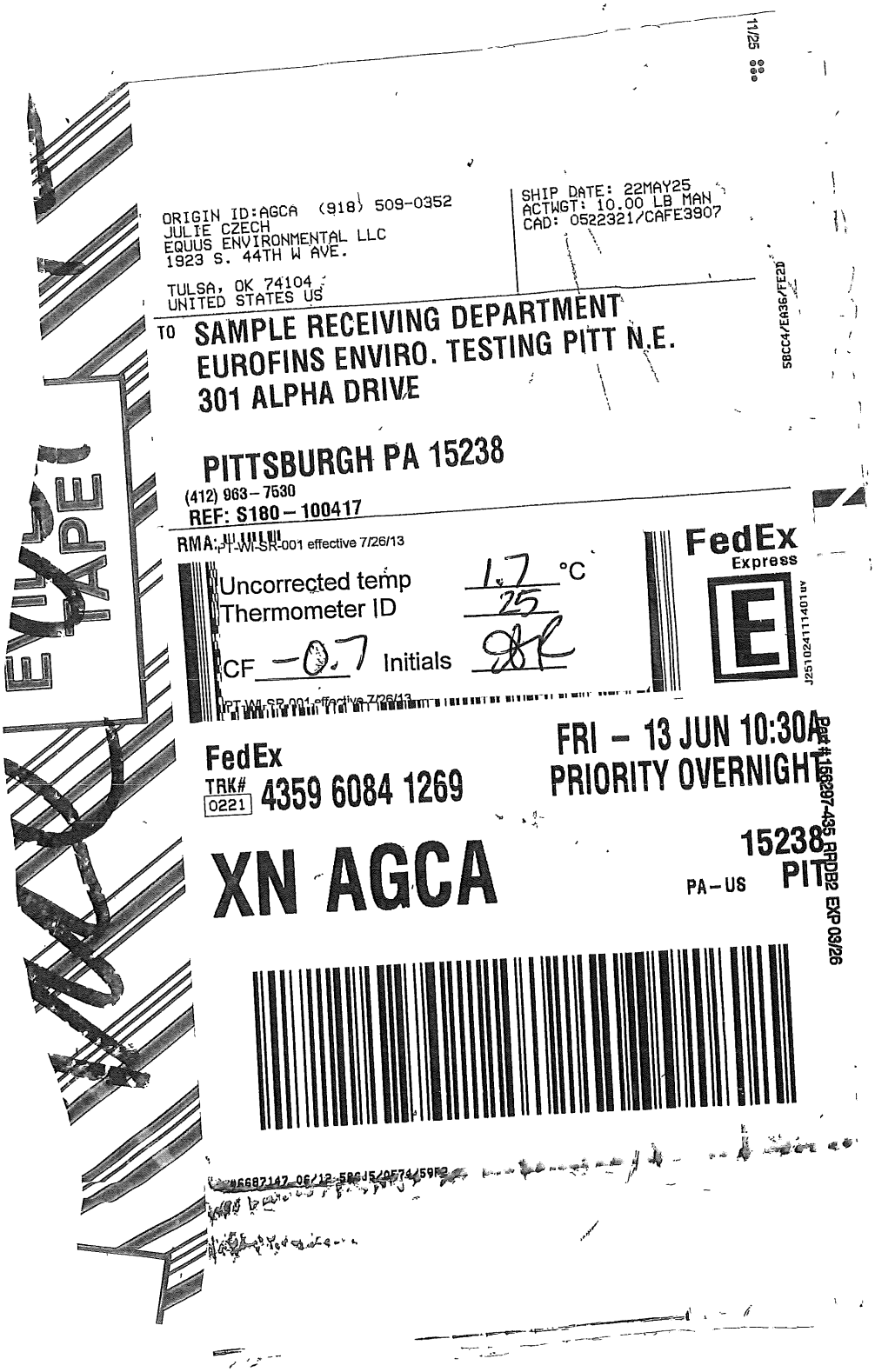
Date	Time	Sample ID	Sample Matrix	# of Sample Containers	CHLORIDE	TEMP	REMARKS
6-12-25	12:05	MW-4	water	1	x	x	
6-12-25	12.10	Dup	water	1	x	x	
6-12-25	10.00	Equipment Blank	water	1	x	x	

180-191755 Chain of Custody

TOTAL NUMBER OF CONTAINERS → 3

RELINQUISHED BY: [signature]	DATE 6-12-25 TIME 14.00	RECEIVED BY: [signature]	DATE 06/13/25 TIME 0900
RELINQUISHED BY:	DATE TIME	RECEIVED BY:	DATE TIME
METHOD OF SHIPMENT: FEDEX		AIRBILL NUMBER: 4359 6084 1269	
RECEIVED IN LABORATORY BY:	DATE TIME	Send PDF, EDD, and INVOICE (if applicable) to: QAQC@EquusEnv.com	
LABORATORY CONTACT: KEN 615-301-5035		LABORATORY ADDRESS: 301 ALPHA DRIVE PITTSBURGH, PA 15238 ~~777 NEW DURHAM RD EDISON NJ 08817~~	

White Receiving Lab Yellow Equus Environmental Project File Pink Equus QA/QC



ORIGIN ID:AGCA (918) 509-0352
JULIE CZECH
EQUUS ENVIRONMENTAL LLC
1923 S. 44TH W AVE.
TULSA, OK 74104
UNITED STATES US

SHIP DATE: 22MAY25
ACTWGT: 10.00 LB MAN
CAD: 0522321/CAFE3907

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: S180-100417
RMA: JU [illegible]
PT-WI-SR-001 effective 7/26/13

Uncorrected temp 1.7 °C
Thermometer ID 25
CF -0.7 Initials

PT-WI-SR-001 effective 7/26/13

FedEx Express

FedEx
TRK# 0221 4359 6084 1269

FRI - 13 JUN 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PIT
PA-US

Part #156287-495 RRDB2 EXP 03/26

180-191755 Waybill

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Hayes, Ken	Carrier Tracking No(s): N/A	COC No: 180-540476.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Ken.Hayes@et.eurofinsus.com	State of Origin: Pennsylvania	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): N/A		Job #: 180-191755-1
Address: 777 New Durham Road,	Due Date Requested: 6/26/2025			Preservation Codes:
City: Edison	TAT Requested (days): N/A			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Equus Chesapeake	Project #: 18028372			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-4 (180-191755-1)	6/12/25	12:05 Eastern	G	Water			X	1	
DUP (180-191755-2)	6/12/25	12:10 Eastern	G	Water			X	1	
EQUIPMENT BLANK (180-191755-3)	6/12/25	10:00 Eastern	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/16/25 1700	EPITHG		6/17/25 1035	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1.0 | 4 IR9

Ver 10/10/2024

Login Sample Receipt Checklist

Client: Expand Energy Job Number: 180-191755-1

Login Number: 191755 **List Source: Eurofins Pittsburgh**
List Number: 1
Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Expand Energy Job Number: 180-191755-1

Login Number: 191755 **List Source: Eurofins Edison**
List Number: 2 **List Creation: 06/20/25 12:30 PM**
Creator: Armbruster, Chris

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0/1.4°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dana Drury
Expand Energy
PO BOX 548806
Oklahoma City, Oklahoma 73154

Generated 3/30/2026 5:28:13 PM

JOB DESCRIPTION

CHKSTATM
CHK STATE M

JOB NUMBER

180-203116-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

my EOL

Eurofins Pittsburgh

Job Notes

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PA Lab ID: 02-00416

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Authorization

Generated
3/30/2026 5:28:13 PM

Authorized for release by
Ken Hayes, Project Manager II
Ken.Hayes@et.eurofinsus.com
(615)301-5035

Client: Expand Energy
Project/Site: CHKSTATM

Laboratory Job ID: 180-203116-1
SDG: CHK STATE M

Table of Contents

Case Narrative

Client: Expand Energy
Project: CHKSTATM

Job ID: 180-203116-1

Job ID: 180-203116-1 Eurofins Pittsburgh

Job Narrative
180-203116-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 3/18/2026 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

HPLC/IC
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 460-1097543 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Expand Energy
Project/Site: CHKSTATM

Job ID: 180-203116-1
SDG: CHK STATE M

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Expand Energy
Project/Site: CHKSTATM

Job ID: 180-203116-1
SDG: CHK STATE M

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-04-27
Georgia	State	12028 (NJ)	06-30-26
Illinois	NELAP	2000942025-2	04-30-26
Massachusetts	State	M-NJ312	06-30-26
New Jersey	NELAP	12028	06-30-26
New York	NELAP	11452	03-31-26
Pennsylvania	NELAP	68-00522	02-28-27
Rhode Island	State	LAO00376	12-30-26
USDA	US Federal Programs	525-24-149-77606	05-21-27

Sample Summary

Client: Expand Energy
Project/Site: CHKSTATM

Job ID: 180-203116-1
SDG: CHK STATE M

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
180-203116-1	MW-4	Water	03/17/26 12:20	03/18/26 10:30	Oklahoma
180-203116-2	Dup	Water	03/17/26 12:25	03/18/26 10:30	Oklahoma
180-203116-3	Equipment Blank	Water	03/17/26 12:35	03/18/26 10:30	Oklahoma

Method Summary

Client: Expand Energy
Project/Site: CHKSTATM

Job ID: 180-203116-1
SDG: CHK STATE M

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Lab Chronicle

Client: Expand Energy
Project/Site: CHKSTATM

Job ID: 180-203116-1
SDG: CHK STATE M

Client Sample ID: MW-4

Lab Sample ID: 180-203116-1
Matrix: Water
Date Collected: 03/17/26 12:20
Date Received: 03/18/26 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	1097543	03/29/26 04:08	OXG	EET EDI
	Instrument ID: IC 1									

Client Sample ID: Dup

Lab Sample ID: 180-203116-2
Matrix: Water
Date Collected: 03/17/26 12:25
Date Received: 03/18/26 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	1097543	03/29/26 04:25	OXG	EET EDI
	Instrument ID: IC 1									

Client Sample ID: Equipment Blank

Lab Sample ID: 180-203116-3
Matrix: Water
Date Collected: 03/17/26 12:35
Date Received: 03/18/26 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	1097543	03/29/26 04:41	OXG	EET EDI
	Instrument ID: IC 1									

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Analyst References:

Lab: EET EDI

Batch Type: Analysis

OXG = Olivia Guerrero

Client Sample Results

Client: Expand Energy
Project/Site: CHKSTATM

Job ID: 180-203116-1
SDG: CHK STATE M

Client Sample ID: MW-4
Lab Sample ID: 180-203116-1
Date Collected: 03/17/26 12:20
Matrix: Water
Date Received: 03/18/26 10:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	298		5.00		mg/L			03/29/26 04:08	5

Client Sample ID: Dup
Lab Sample ID: 180-203116-2
Date Collected: 03/17/26 12:25
Matrix: Water
Date Received: 03/18/26 10:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		5.00		mg/L			03/29/26 04:25	5

Client Sample ID: Equipment Blank
Lab Sample ID: 180-203116-3
Date Collected: 03/17/26 12:35
Matrix: Water
Date Received: 03/18/26 10:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00		mg/L			03/29/26 04:41	1

QC Sample Results

Client: Expand Energy
Project/Site: CHKSTATM

Job ID: 180-203116-1
SDG: CHK STATE M

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-1097543/9
Matrix: Water
Analysis Batch: 1097543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00		mg/L			03/29/26 01:54	1

Lab Sample ID: LCS 460-1097543/11
Matrix: Water
Analysis Batch: 1097543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.20	2.930		mg/L		92	90 - 110		

Lab Sample ID: LCSD 460-1097543/12
Matrix: Water
Analysis Batch: 1097543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			3.20	3.014		mg/L		94	90 - 110	3	15

Lab Sample ID: 460-346860-A-1 MS
Matrix: Water
Analysis Batch: 1097543

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	50.6		3.20	46.00	4	mg/L		-145	90 - 110		

Lab Sample ID: 460-346860-A-1 MSD
Matrix: Water
Analysis Batch: 1097543

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.6		3.20	46.56	4	mg/L		-127	90 - 110	1	15

Lab Sample ID: 460-346886-H-5 MS
Matrix: Water
Analysis Batch: 1097543

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.8		3.20	23.50	4	mg/L		86	90 - 110		

Lab Sample ID: 460-346886-H-5 MSD
Matrix: Water
Analysis Batch: 1097543

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.8		3.20	23.51	4	mg/L		86	90 - 110	0	15

QC Association Summary

Client: Expand Energy
Project/Site: CHKSTATM

Job ID: 180-203116-1
SDG: CHK STATE M

HPLC/IC

Analysis Batch: 1097543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-203116-1	MW-4	Total/NA	Water	300.0	
180-203116-2	Dup	Total/NA	Water	300.0	
180-203116-3	Equipment Blank	Total/NA	Water	300.0	
MB 460-1097543/9	Method Blank	Total/NA	Water	300.0	
LCS 460-1097543/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-1097543/12	Lab Control Sample Dup	Total/NA	Water	300.0	
460-346860-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
460-346860-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
460-346886-H-5 MS	Matrix Spike	Total/NA	Water	300.0	
460-346886-H-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

CHAIN OF CUSTODY RECORD

No. 2897

EQUUS Environmental LLC
(918) 921-5331

PROJECT NUMBER: CHKSTATM
PROJECT NAME: CHK STATE M
COC 1 of 1
SHIPPED TO: EDISON
PROJECT MANAGER: MATT MUGAVERO
TAT: STANDARD
PO# WO#

SAMPLER'S PRINTED NAME: Eric Farrar
SAMPLERS SIGNATURE:

Date	Time	Sample ID	Sample Matrix	# of Sample Containers	CHLORIDE	TEMP
3-17-2026	12 20	MW-4	water	1	X	X
3-17-2026	12 25	Dup	water	1	X	X
3-17-2026	12-35	Equipment Blank	water	1	X	X

~~34~~ KD 3/19/26
180-203116
REMARKS

180-203116 Chain of Custody

X EF

TOTAL NUMBER OF CONTAINERS: 3

RELINQUISHED BY: DATE 3-17-2026 TIME 16:00
RECEIVED BY: via FedEx DATE 3/18/26 TIME 1030
RELINQUISHED BY: DATE TIME
RECEIVED BY: DATE TIME

METHOD OF SHIPMENT: FedEx
AIRBILL NUMBER: 4910 3592 0864

RECEIVED IN LABORATORY BY: DATE TIME
Send PDF EDD, and INVOICE (if applicable) to: QAQC@EquusEnv.com

LABORATORY CONTACT: KEN 615-301-5035
LABORATORY ADDRESS: 777 NEW DURHAM RD EDISON, NJ 08817

3-3/2.8°C IR9 CS# 3014993, 3014992

White: Receiving Lab Yellow: Equus Environmental Project File Pink: Equus QA/QC

Eurofins Edison
Receipt Temperature and pH Log

Job Number: 180-203116

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.3 °C	2.8 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	1,4-Dioxane (pH<4)	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted. _____

Preservative Name/Conc. _____ Volume of Preservative used (ml) _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

*Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 5
9/5/2025

Initials CA Date: 3/18/26

Login Sample Receipt Checklist

Client: Expand Energy

Job Number: 180-203116-1
SDG Number: CHK STATE M

Login Number: 203116
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Expand Energy

Job Number: 180-203116-1
SDG Number: CHK STATE M

Login Number: 203116
List Number: 2
Creator: Rivera, Kenneth

List Source: Eurofins Edison
List Creation: 03/19/26 02:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	3014993, 3014992
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8°C, IR #9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dana Drury
Expand Energy
PO BOX 548806
Oklahoma City, Oklahoma 73154

Generated 10/5/2025 8:37:30 PM

JOB DESCRIPTION

CHK State M

JOB NUMBER

460-335898-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

Eurofins Edison

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

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10/5/2025 8:37:30 PM

Authorized for release by
Ken Hayes, Project Manager II
Ken.Hayes@et.eurofinsus.com
(615)301-5035

Client: Expand Energy
Project/Site: CHK State M

Laboratory Job ID: 460-335898-1

Table of Contents

Definitions/Glossary

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Expand Energy
Project: CHK State M

Job ID: 460-335898-1

Job ID: 460-335898-1 Eurofins Edison

Job Narrative
460-335898-1

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- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/25/2025 10:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

Client Sample ID: MW-4 — Lab Sample ID: 460-335898-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	294		100		mg/L	100		300.0	Total/NA

Client Sample ID: DUP — Lab Sample ID: 460-335898-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	295		100		mg/L	100		300.0	Total/NA

Client Sample ID: Equipment Blank — Lab Sample ID: 460-335898-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

Client Sample ID: MW-4

Lab Sample ID: 460-335898-1
Date Collected: 09/23/25 11:00
Matrix: Water
Date Received: 09/25/25 10:50

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**294**		100		mg/L			10/05/25 12:36	100

Client Sample ID: DUP

Lab Sample ID: 460-335898-2
Date Collected: 09/23/25 11:05
Matrix: Water
Date Received: 09/25/25 10:50

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**295**		100		mg/L			10/05/25 12:51	100

Client Sample ID: Equipment Blank

Lab Sample ID: 460-335898-3
Date Collected: 09/23/25 11:15
Matrix: Water
Date Received: 09/25/25 10:50

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00		mg/L			10/05/25 13:05	1

QC Sample Results

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-1066002/3
Matrix: Water
Analysis Batch: 1066002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00		mg/L			10/05/25 08:06	1

Lab Sample ID: LCS 460-1066002/5
Matrix: Water
Analysis Batch: 1066002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.20	3.000		mg/L		94	90 - 110		

Lab Sample ID: LCSD 460-1066002/6
Matrix: Water
Analysis Batch: 1066002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			3.20	3.003		mg/L		94	90 - 110	0	15

QC Association Summary

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

HPLC/IC

Analysis Batch: 1066002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-335898-1	MW-4	Total/NA	Water	300.0	
460-335898-2	DUP	Total/NA	Water	300.0	
460-335898-3	Equipment Blank	Total/NA	Water	300.0	
MB 460-1066002/3	Method Blank	Total/NA	Water	300.0	
LCS 460-1066002/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-1066002/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Lab Chronicle

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

Client Sample ID: MW-4

Lab Sample ID: 460-335898-1

Date Collected: 09/23/25 11:00
Matrix: Water
Date Received: 09/25/25 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		100	1066002	OXG	EET EDI	10/05/25 12:36

Client Sample ID: DUP

Lab Sample ID: 460-335898-2

Date Collected: 09/23/25 11:05
Matrix: Water
Date Received: 09/25/25 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		100	1066002	OXG	EET EDI	10/05/25 12:51

Client Sample ID: Equipment Blank

Lab Sample ID: 460-335898-3

Date Collected: 09/23/25 11:15
Matrix: Water
Date Received: 09/25/25 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	1066002	OXG	EET EDI	10/05/25 13:05

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-03-26
Illinois	NELAP	2000942025-2	04-30-26
Massachusetts	State	M-NJ312	06-30-26
New Jersey	NELAP	12028	06-30-26
New York	NELAP	11452	04-01-26
Pennsylvania	NELAP	68-00522	02-28-26
Rhode Island	State	LAO00376	12-23-25
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Expand Energy
Project/Site: CHK State M

Job ID: 460-335898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
460-335898-1	MW-4	Water	09/23/25 11:00	09/25/25 10:50	New Jersey
460-335898-2	DUP	Water	09/23/25 11:05	09/25/25 10:50	New Jersey
460-335898-3	Equipment Blank	Water	09/23/25 11:15	09/25/25 10:50	New Jersey

CHAIN OF CUSTODY RECORD

No. 1009

EQUUS environmental solutions

PROJECT NUMBER: CHKSTAT M
SHIPPED TO: PITT
PROJECT NAME: CHKSTATE M
PROJECT MANAGER: MATT MULLAVERO
COC 1 of 1
TAT: STANDARD
ASOW: —

SAMPLER'S PRINTED NAME: Eric Farrar
SAMPLER'S SIGNATURE: [signature]

Date	Time	Sample ID	Sample Matrix	# of Sample Containers	CHLORIDE	TEMP	REMARKS
9-23-25	11:00	MW-4	water	1	X	X	335898
9-23-25	11:05	Dup	water	1	X	X	
9-23-25	11:15	Equipment Blank	water	1	X	X	

460-335898 Chain of Custody

FedEx

TOTAL NUMBER OF CONTAINERS → 3

RELINQUISHED BY: [signature] DATE 9-23-25 TIME 14:00
RECEIVED BY: [signature] 9/25/25 10:50 DATE TIME
RELINQUISHED BY: DATE TIME
RECEIVED BY: DATE TIME

METHOD OF SHIPMENT: FEDEX
AIRBILL NUMBER: 4642 5779 6220

RECEIVED IN LABORATORY BY: DATE TIME
Send PDF EDD, and INVOICE (if applicable) to:

LABORATORY CONTACT: KEN 615-301-5035
LABORATORY ADDRESS: 301 ALPHA DRIVE PITT, PA 15238

POINT OF ORIGIN: IR-9 6 6-5-3

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 335898

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	5.6	5.8	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted. _____

Preservative Name/Conc. _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: _____ Date: 9/29/25

Login Sample Receipt Checklist

Client: Expand Energy Job Number: 460-335898-1

Login Number: 335898 **List Source: Eurofins Edison**
List Number: 1
Creator: Nelson, Rose E

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dana Drury
Expand Energy
PO BOX 548806
Oklahoma City, Oklahoma 73154

Generated 12/31/2025 2:44:11 PM

JOB DESCRIPTION

CHK STATE M

JOB NUMBER

460-341749-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

Eurofins Edison

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
12/31/2025 2:44:11 PM

Authorized for release by
Ken Hayes, Project Manager II
Ken.Hayes@et.eurofinsus.com
(615)301-5035

Client: Expand Energy
Project/Site: CHK STATE M

Laboratory Job ID: 460-341749-1

Table of Contents

Definitions/Glossary

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Expand Energy
Project: CHK STATE M

Job ID: 460-341749-1

Job ID: 460-341749-1 Eurofins Edison

Job Narrative
460-341749-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 12/17/2025 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

Client Sample ID: MW-4 — Lab Sample ID: 460-341749-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	337		10.0		mg/L	10		300.0	Total/NA

Client Sample ID: Dup — Lab Sample ID: 460-341749-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	335		10.0		mg/L	10		300.0	Total/NA

Client Sample ID: Equipment Blank — Lab Sample ID: 460-341749-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

Client Sample ID: MW-4
Lab Sample ID: 460-341749-1
Date Collected: 12/16/25 11:50
Matrix: Water
Date Received: 12/17/25 11:55

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		10.0		mg/L			12/30/25 15:04	10

Client Sample ID: Dup
Lab Sample ID: 460-341749-2
Date Collected: 12/16/25 11:55
Matrix: Water
Date Received: 12/17/25 11:55

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		10.0		mg/L			12/30/25 15:20	10

Client Sample ID: Equipment Blank
Lab Sample ID: 460-341749-3
Date Collected: 12/16/25 12:05
Matrix: Water
Date Received: 12/17/25 11:55

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00		mg/L			12/30/25 15:37	1

QC Sample Results

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-1083213/3
Matrix: Water
Analysis Batch: 1083213

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00		mg/L			12/30/25 09:17	1

Lab Sample ID: LCS 460-1083213/5
Matrix: Water
Analysis Batch: 1083213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.20	3.162		mg/L		99	90 - 110		

Lab Sample ID: LCSD 460-1083213/6
Matrix: Water
Analysis Batch: 1083213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			3.20	3.045		mg/L		95	90 - 110	4	15

QC Association Summary

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

HPLC/IC

Analysis Batch: 1083213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-341749-1	MW-4	Total/NA	Water	300.0	
460-341749-2	Dup	Total/NA	Water	300.0	
460-341749-3	Equipment Blank	Total/NA	Water	300.0	
MB 460-1083213/3	Method Blank	Total/NA	Water	300.0	
LCS 460-1083213/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-1083213/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Lab Chronicle

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

Client Sample ID: MW-4

Lab Sample ID: 460-341749-1

Date Collected: 12/16/25 11:50
Date Received: 12/17/25 11:55

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	1083213	OXG	EET EDI	12/30/25 15:04

Client Sample ID: Dup

Lab Sample ID: 460-341749-2

Date Collected: 12/16/25 11:55
Date Received: 12/17/25 11:55

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	1083213	OXG	EET EDI	12/30/25 15:20

Client Sample ID: Equipment Blank

Lab Sample ID: 460-341749-3

Date Collected: 12/16/25 12:05
Date Received: 12/17/25 11:55

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	1083213	OXG	EET EDI	12/30/25 15:37

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-03-26
Georgia	State	12028 (NJ)	06-30-26
Illinois	NELAP	2000942025-2	04-30-26
Massachusetts	State	M-NJ312	06-30-26
New Jersey	NELAP	12028	06-30-26
New York	NELAP	11452	04-01-26
Pennsylvania	NELAP	68-00522	02-28-26
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Expand Energy
Project/Site: CHK STATE M

Job ID: 460-341749-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
460-341749-1	MW-4	Water	12/16/25 11:50	12/17/25 11:55	Pennsylvania
460-341749-2	Dup	Water	12/16/25 11:55	12/17/25 11:55	Pennsylvania
460-341749-3	Equipment Blank	Water	12/16/25 12:05	12/17/25 11:55	Pennsylvania

CHAIN OF CUSTODY RECORD

No. 2879

EQUUS Environmental LLC (918) 921-5331

PROJECT NUMBER: CHKSTATM	PROJECT NAME: CHK STATE M	COC 1 of 1	
SHIPPED TO: EDISON	PROJECT MANAGER: MATT MUGAVERO	TAT: STANDARD	

SAMPLER'S PRINTED NAME: Eric Farrar

SAMPLERS SIGNATURE:

PO# WO# 341749

Date	Time	Sample ID	Sample Matrix	# of Sample Containers	CHLORIDE	TEMP	REMARKS
12-16-2025	11:50	MW-4	water	1	X	X	
12-16-2025	11 55	Dup	water	1	X	X	
12-16-2025	12:05	Equipment Blank	water	1	X	X	

460-341749 Chain of Custody

XEF

TOTAL NUMBER OF CONTAINERS → 3

RELINQUISHED BY:	DATE 12-16-2025	RECEIVED BY: via Fedex	DATE 12/17/25		
	TIME 15:00		TIME 1155		
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE		
	TIME		TIME		

METHOD OF SHIPMENT: FEDEX

AIRBILL NUMBER: 4642 5785 7762

RECEIVED IN LABORATORY BY: DATE TIME

Send PDF EDD, and INVOICE (if applicable) to: QAQC@EquusEnv.com

LABORATORY CONTACT: KEN 615-301-5035

LABORATORY ADDRESS: 777 NEW DURHAM RD EDISON NJ 08817

White: Receiving Lab Yellow: Equus Environmental Project File Pink: Equus QA/QC

CS# 2954403 2954402

5.0/4.5°C IRG

Eurofins Edison
Receipt Temperature and pH Log

Job Number: 341749

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	5.0 °C	4.5 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	1,4-Dioxane (pH<4)	Other

If pH adjustments are required record the information below:

Sample No(s) adjusted. _____

Preservative Name/Conc. _____ Volume of Preservative used (ml) _____

Lot # of Preservative(s) _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038 Rev 5
9/5/2025

Initials. CK Date. 12/17/25

Login Sample Receipt Checklist

Client: Expand Energy Job Number: 460-341749-1

Login Number: 341749 **List Source: Eurofins Edison**
List Number: 1
Creator: Kafka, Emily E

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	2954403/2954402
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

Operator: CHESAPEAKE OPERATING, INC. 6100 NORTH WESTERN AVE OKC, OK 73118	OGRID: 147179
	Action Number: 586558
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record. Submit the next Annual Groundwater Monitoring Report by April 1, 2027.	5/27/2026