



WASTE EXCAVATION AND REMOVAL STATUS REPORT

Site Location:

**Federal G Gas Com #1 – Reserve Pit
Eddy County, New Mexico
API: 30-015-20848**

July 14, 2023

Ensolum Project No. 03A1987002

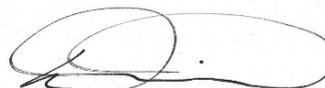
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1.0 INTRODUCTION

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC (WPX), has prepared this *Waste Excavation and Removal Status Report (Status Report)* for the documentation of decommissioning and removal activities of a permanent historical reserve pit associated with the Federal G Gas Com #1 well (hereinafter referred to as the “Site”). WPX presented the New Mexico Oil Conservation Division (NMOCD with a *Closure Plan – Reserve Pit*, dated January 20, 2023, describing plans to close the reserve pit through the waste excavation and removal method as described in Title 19, Chapter 15, Part 17, Section 13 (19.15.17.13) of the Mexico Administrative Code (NMAC) (also referred to as Part 17). This Status Report is being submitted in conjunction with New Mexico Oil Conservation Division (NMOCD) Form C-144 – *Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application* (Form C-144) on **Appendix A**.

1.1 Site Description

The Site is located in Unit J, Section 21, Township 20 South, Range 30 East, in Eddy County, New Mexico (32.556535° N, -103.974906° W) and is associated with oil and gas production on federal land managed by the Bureau of Land Management (BLM). Potential Site receptors are identified on **Figure 1**.

The reserve pit was situated on the northwest side of the production pad and measured approximately 7,000 square feet in areal extent. The reserve pit was approved for use as an unlined reserve pit on May 19, 2004. Due to the plugging and abandoning of the associated production well and the ongoing reclamation activities related to the pad, WPX completed closure planning and execution activities related to the reserve pit, which has coincided with pad reclamation activities.

1.2 Site Characterization

Depth to groundwater at the Site is estimated to be 93.8 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of State Engineering (NMOSE) well CP-1937-POD 1, located approximately 73 feet Northwest of the Site, which was advanced to assess the depth to water for the Site. The location of the groundwater well is provided on **Figure 1**. The Groundwater Measurement Form summarizing findings is provided as **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 0.56 miles west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from any occupied residence, school, hospital, institution, church, and wetland and greater than 1,000 feet to a freshwater well or spring. The Site is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area).

Based on the desktop review of nearby receptors and depth to groundwater determination at the Site, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- Total Petroleum Hydrocarbon (TPH): 2,500 mg/kg
- Chloride: 10,000 mg/kg

Per 19.15.17.13.H (3) NMAC, a reclamation requirement of 600 mg/kg chloride was applied to the top 4 feet of the reserve pit to support establishment of vegetation at the Site.

2.0 DELINEATION ACTIVITIES

2.1 Delineation Activities

October 12, 2022, NTG Environmental (NTG) advanced four delineation potholes (S-1 through S-4) and four horizontal samples (H-1 through H-4) were advanced via mechanical equipment within the pit and along the pit walls to assess for the presence or absence of impacted and/or waste-containing soil.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Vertical delineation to the strictest Closure Criteria was achieved in three out of four pothole locations. Laboratory analytical data indicated delineation soil sample S-2 at 7.5 feet and 8.5 feet bgs had slightly elevated levels of TPH; however, the concentrations were well in compliance with the Closure Criteria for the Site and greater than 4 feet bgs for leaving waste-containing soil in-place. Lateral delineation to the strictest Closure Criteria was achieved in all four lateral delineation soil samples. The locations of the delineation pothole samples are shown in Figure 2. Laboratory analytical results are summarized on **Table 1**. The laboratory analytical report is included in **Appendix C**.

3.0 WASTE EXCAVATION AND REMOVAL ACTIONS

3.1 Excavation Activities

Between October 4, 2022, and March 7, 2023, the reserve pit area was excavated to a depth of approximately 4 feet bgs. Fluids had been removed from the reserve pit well in advance of reclamation planning and prior to the commencement of excavation activities. Ensolum personnel directed excavation activities by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

On March 29 and March 30, 2023, Ensolum personnel collected two, 5-point composite floor soil samples (FS01 & FS02) and two, 5-point composite sidewall soil samples; SW01 along the north and east sidewalls and SW02 along the south and west sidewalls. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 3**.

The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The composite soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported and chilled under strict chain-of-custody procedures to Envirotech Laboratory Analysis (Envirotech) in Carlsbad, New Mexico for analysis BTEX, TPH, and chloride.

Laboratory analytical results for floor soil sample FS01 and sidewall soil samples SW01 and SW02 indicated concentrations of TPH exceeded the reclamation requirement. As such, additional excavation of waste-containing soil appeared warranted.

Between June 13 and June 15, 2023, the reserve pit was further excavated and confirmation soil samples FS01, SW01, and SW02 were recollected and submitted for laboratory analysis. Laboratory analytical results indicated are confirmation soil samples were compliant with the Closure Criteria as well as the reclamation requirement. The excavation extent and excavation soil sample locations are presented on **Figure 3**. Photographic documentation of excavation activities is included in **Appendix D**.

3.2 Waste Handling

The final excavation extent measured approximately 9,320 square feet in areal extent. Approximately 1,200 yards of contaminated soil were removed. All impacted and waste-containing soil was hauled to the R360 Landfill Disposal Facility in Hobbs, New Mexico under WPX-approved manifests. The disposal permit number for R360 is fEEM0112334510.

3.3 Soil Sampling Results

Laboratory analytical results of all final composite soil samples, collected on March 29, 2023, and June 15, 2023, indicated concentrations of all COCs were in compliance with the Closure Criteria for the Site and with the reclamation requirement. The analytical results are summarized in **Table 1**, the executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix C** and email correspondence with NMOCD is provided in **Appendix E**.

4.0 SOIL BACKFILL AND COVER DESIGN

The reserve pit will be backfilled utilizing locally procured non-waste containing caliche and topsoil, specifically caliche and soil that does not contain chloride at concentrations greater than 600 mg/kg. Per 19.15.17.13.H (3) and (4) NMAC, WPX will backfill the reserve pit in a manner that will match surrounding contours of the pasture and capped with at least 1-foot of topsoil that will be supportive of establishing vegetation. When recontouring the Site, WPX will construct the cover suitable to prevent ponding or erosion during the revegetation and reclamation process.

5.0 RE-VEGETATION AND FINAL RECLAMATION

Per 19.15.17.13.H(5) NMAC, WPX will follow through with revegetating the Site. This Site is located on federal land and as such, the reclaimed area will be seeded with an approved BLM seed mixture.

WPX will observe the progress of revegetation throughout the Site and will reapply seeds if coverage does not appear to be adequate in a timely manner. Seeding tentatively scheduled for early fall when temperatures and precipitation totals are more conducive for seed germination and growth.

The Site will be deemed reclaimed when vegetation coverage has been established to at least 70 percent (%) of pre-disturbance levels. Due to the original construction of the reserve pit (2004), WPX will utilize surrounding, undisturbed vegetation coverage as a milestone marker in evaluating coverage percentage. Once reclamation is completed, a summary letter will be submitted to NMOCD.

Any additional requirements for reclamation of the Site from BLM will be implemented in conjunction with those activities outlined in this *Closure Plan*.

6.0 CONCLUSIONS

The primary objectives of Ensolum's scope of services were to document waste excavation and removal activities performed at the Site in accordance with the applicable NMOCD regulatory guidelines and NMOCD-approved *Closure Plan* for the reserve pit. Based on the results documented in this report, the following findings and conclusions regarding the actions completed is presented:

- Laboratory analytical results for delineation soil samples from potholes (S-1 through S-4) and (H1 through H4) were in compliance with the Site Closure Criteria, thus providing additional confirmation for the lateral and vertical delineation of soil conditions related to the reserve pit.
- Laboratory analytical results for all final excavation confirmation soil samples (FS01, FS02, SW01, and SW02) indicated all COC concentrations were below the applicable Site Closure Criteria and reclamation requirements.
- Per 19.15.17.13.H (3) and (4) NMAC, WPX will backfill the reserve pit in a manner that will match surrounding contours of the pasture and capped with at least 1-foot of topsoil that will be supportive of establishing vegetation. When recontouring the Site, WPX will construct the cover suitable to prevent ponding or erosion during the revegetation and reclamation process.
- WPX will continue with revegetation inspections quarterly and apply additional seed mixtures as deemed necessary to meet the reclamation requirements so that coverage is at least 70% of the surrounding pasture area.

Based on the conclusions presented, WPX believes the waste excavation and removal activities described above have met the requirements set forth in 19.15.17.13 NMAC and is protective of human health, the environment, and groundwater. Following the backfilling, seeding, and the first quarter of revegetation inspection, WPX will provide NMOCD with a status summary of progress. WPX will continue with quarterly status updates until the vegetative coverage is at least 70% of the surrounding pasture area. At that time, WPX will present a *Closure Request* to the NMOCD for the reserve pit. If NMOCD has any questions regarding this *Status Update*, WPX would appreciate a meeting to discuss further.



FIGURES

Legend

- Sample Points
- x - Fence Line
- Reserve Pit Boundary



Sources: Environmental Systems Research Institute (ESRI)

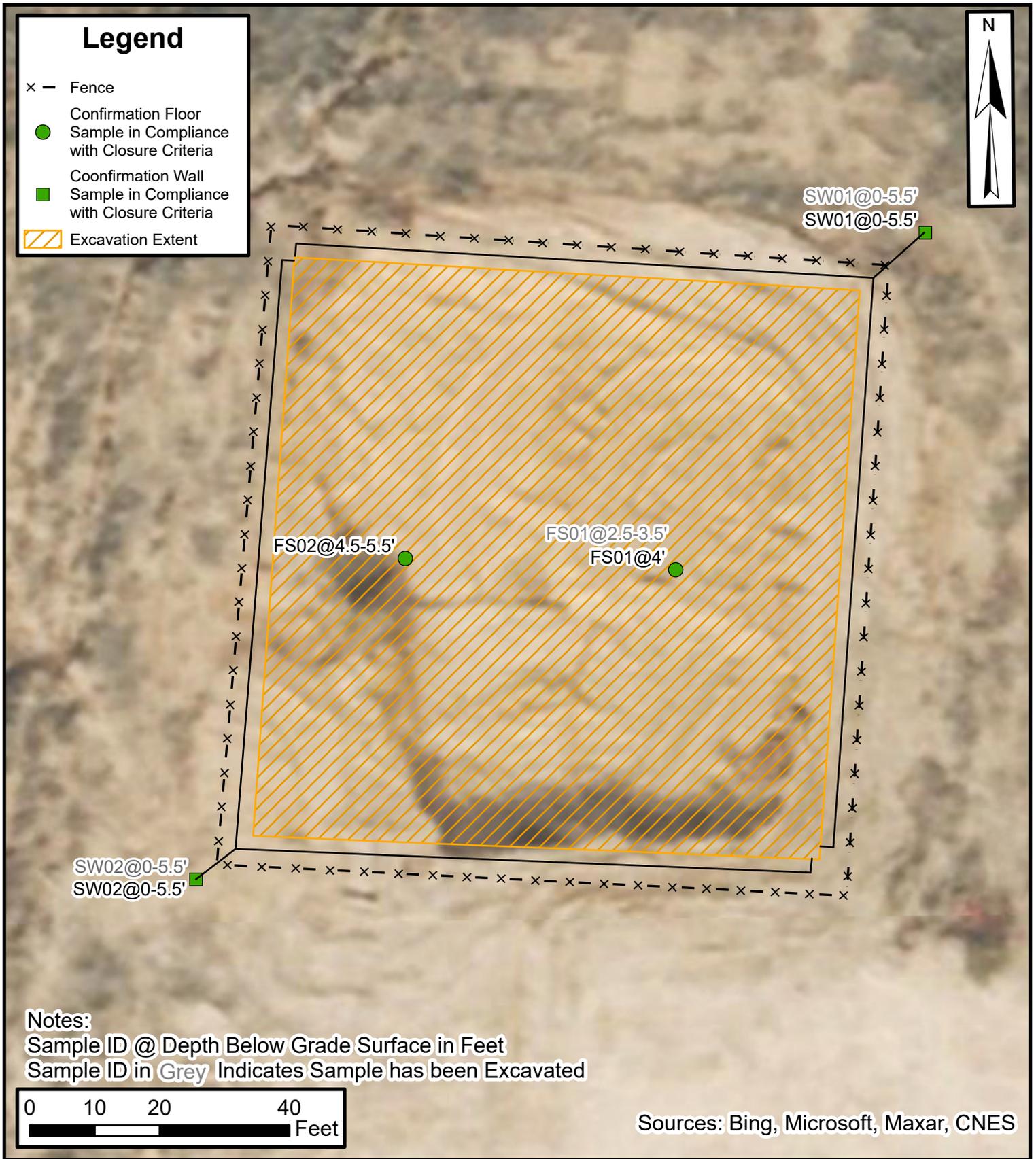


Delineation Soil Sample Locations

WPX Energy Permian, LLC
 Federal G Gas Com #1 - Reserve Pit
 API: 30-015-20848
 Unit J, Sec 21, T20S, R30E
 Eddy County, New Mexico

FIGURE

2



Confirmation Soil Sample Locations

WPX Energy Permian, LLC
 Federal G Gas Com #1 - Reserve Pit
 API: 30-015-20848
 Unit J, Sec 21, T20S, R30E
 Eddy County, New Mexico

FIGURE
3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Federal G Gas Com #1 - Reserve Pit
 WPX Energy Permian, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
S-1	7/18/2022	(0-1)	<0.0250	<0.0250	<20.0	396	434	396	830	<100
S-1	7/18/2022	(1-1.5)	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
S-1	7/18/2022	(2-2.5)	<0.0250	<0.0250	<20.0	25.8	<50.0	25.8	25.8	<20.0
S-1	7/18/2022	(3-3.5)	<0.0250	<0.0250	<20.0	27.4	<50.0	27.4	27.4	<20.0
S-1	10/18/2022	(2-2.5)	<0.00201	<0.00402	<50.0	115	<50.0	115	115	167
S-1	10/18/2022	(3-3.5)	<0.00200	<0.00401	<49.9	269	53.1	269.0	322	342
S-1	10/18/2022	(4-4.5)	<0.00199	<0.00398	<50.0	463	110	463	573	60.3
S-2	7/18/2022	(0-1)	<0.0250	<0.0250	<20.0	290	<250.0	290	290	<200
S-2	7/18/2022	(1-1.5)	<0.0250	<0.0250	<20.0	59.8	53.2	59.8	119.6	<20.0
S-2	7/18/2022	(2-2.5)	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
S-2	7/18/2022	(3-3.5)	<0.0250	<0.0250	<20.0	26.3	<50.0	26.3	26.3	<20.0
S-2	10/18/2022	(7')	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	211
S-3	7/18/2022	(0-1)	<0.0250	<0.0250	<20.0	469	288	469	938	<400
S-3	7/18/2022	(1-1.5)	<0.0250	<0.0250	<20.0	105	102	105	210	<200
S-3	7/18/2022	(2-2.5)	<0.0250	<0.0250	<20.0	346	296	346	692	69.2
S-3	7/18/2022	(3-3.5)	<0.0250	<0.0250	<20.0	224	93.7	224	448	58.6
S-3	10/18/2022	(10')	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	17.5
S-4	7/18/2022	(0-1)	<0.0250	<0.0250	<20.0	13,800	7,180	13,800	27,600	811
S-4	7/18/2022	(1-1.5)	<0.0250	<0.0250	<20.0	1,500	805	1,500	3,000	1,130
S-4	7/18/2022	(2-2.5)	<0.0250	<0.0250	<20.0	329	197	329	658	861
S-4	7/18/2022	(3-3.5)	<0.0250	<0.0250	<20.0	110	96.1	110	220	850
S-4	7/18/2022	(4-4.5)	<0.0250	<0.0250	<20.0	29.1	<50	29.1	29.1	1,190
S-4	7/18/2022	(5-5.5)	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,210
S-4	10/18/2022	(7')	<0.00200	<0.00399	<50.0	54	<50.0	54	54	8
H-1	7/18/2022	0	<0.0250	<0.0250	<20.0	2,580	2,460	2,580	5,160	193
H-2	7/18/2022	0	<0.0250	<0.0250	<20.0	338	366	338	676	962
H-3	7/18/2022	0	<0.0250	<0.0250	<20.0	1,640	1,060	1,640	3,280	2,730
H-4	7/18/2022	0	<0.0250	<0.0250	<20.0	1,920	1,400	1,920	3,840	3,810



TABLE 1 - Cont'd
SOIL SAMPLE ANALYTICAL RESULTS
 Federal G Gas Com #1 - Reserve Pit
 WPX Energy Permian, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCDC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Confirmation Floor Soil Samples										
FS01 *	3/29/2023	2.5-3.5	<0.0250	<0.0500	<20.0	142	74.3	142	216.3	204
FS01	6/14/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.3
FS02	3/29/2023	4.5-5.5	<0.0250	<0.0500	<20.0	320	322	320	642	29.6
Sidewall Soil Samples										
SW01 *	3/30/2023	0-5.5	<0.0250	<0.0500	<20.0	130	135.0	130	265	103
SW01 *	6/15/2023	0-5.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.4
SW02 *	3/30/2023	0-5.5	<0.0250	<0.0500	<20.0	94.9	105.0	94.9	199.9	181
SW02 *	6/14/2023	0-5.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	463

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCDC Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

C-144 Form

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

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

- Type of action: Below grade tank registration
 Permit of a pit or proposed alternative method
 Closure of a pit, below-grade tank, or proposed alternative method
 Modification to an existing permit/or registration
 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
 Operator: WPX Energy OGRID #: 246289
 Address: 5315 Buena Vista Drive, Carlsbad, NM 88220
 Facility or well name: Fed G Gas Com #1
 API Number: 30-015-20848 OCD Permit Number: 313317
 U/L or Qtr/Qtr J Section 21 Township 20S Range 20E County: Eddy
 Center of Proposed Design: Latitude 32.556532 Longitude -103.974915 NAD83
 Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2.
 Pit: Subsection F, G or J of 19.15.17.11 NMAC
 Temporary: Drilling Workover
 Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
 Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVC Other _____
 String-Reinforced
 Liner Seams: Welded Factory Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
 Below-grade tank: Subsection I of 19.15.17.11 NMAC
 Volume: _____ bbl Type of fluid: _____
 Tank Construction material: _____
 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
 Visible sidewalls and liner Visible sidewalls only Other _____
 Liner type: Thickness _____ mil HDPE PVC Other _____

4.
 Alternative Method:
 Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)
 Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
 Four foot height, four strands of barbed wire evenly spaced between one and four feet
 Alternate. Please specify _____

6.
Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)
 Screen Netting Other _____
 Monthly inspections (If netting or screening is not physically feasible)

7.
Signs: Subsection C of 19.15.17.11 NMAC
 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
 Signed in compliance with 19.15.16.8 NMAC

8.
Variations and Exceptions:
 Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.
Please check a box if one or more of the following is requested, if not leave blank:
 Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

<u>General siting</u>	
<u>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</u> - <input type="checkbox"/> NM Office of the State Engineer - iWATERS database search; <input type="checkbox"/> USGS; <input checked="" type="checkbox"/> Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
<u>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit .</u> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. (Does not apply to below grade tanks) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<u>Below Grade Tanks</u>	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>Temporary Pit using Low Chloride Drilling Fluid</u> (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No

Within 100 feet of a wetland.
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).
 - Topographic map; Visual inspection (certification) of the proposed site Yes No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.
 - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;
 - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Yes No

Within 300 feet of a wetland.
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes No

Permanent Pit or Multi-Well Fluid Management Pit

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).
 - Topographic map; Visual inspection (certification) of the proposed site Yes No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.
 - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.
 - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Yes No

Within 500 feet of a wetland.
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes No

10. **Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
 - Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
 - Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
 - Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 - Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 - Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11. **Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 - Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 - A List of wells with approved application for permit to drill associated with the pit.
 - Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
 - Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
 - Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Climatological Factors Assessment
- Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- Quality Control/Quality Assurance Construction and Installation Plan
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Nuisance or Hazardous Odors, including H₂S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13. **Proposed Closure:** 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fluid Management Pit
 Alternative
- Proposed Closure Method: Waste Excavation and Removal
 Waste Removal (Closed-loop systems only)
 On-site Closure Method (Only for temporary pits and closed-loop systems)
 In-place Burial On-site Trench Burial
 Alternative Closure Method

14. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. Groundwater is 93.8 feet below ground surface at the Site - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

16. **On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17. **Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Jim Raley Title: Environmental Specialist

Signature:  Date: 1/24/2023

e-mail address: jim.raley@dvn.com Telephone: 575-689-7597

18. **OCD Approval:** Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: Victoria Venegas Approval Date: 07/27/2023

Title: Environmental Specialist OCD Permit Number: Pit #1

19. **Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date: 7/14/2023

20. **Closure Method:**

Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)

If different from approved plan, please explain.

21. **Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 32.55650 Longitude -103.97489 NAD: 1927 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Jim Raley Title: Environmental Professional

Signature:  Date: 7/26/2023

e-mail address: jim.raley@dnv.com Telephone: 575-689-7597



APPENDIX B

Groundwater Measurement Form



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

January 19, 2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1937 Pod-1

To whom it may concern:

Attached please find a well log & record, in duplicate, for a one (1) soil borings, CP-1937 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DTI JAN 19 2023 AM 10:51



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S) CP-1937	
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE ZIP NM 88210
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 33	SECONDS 22.54	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	103	58	29.92	* DATUM REQUIRED: WGS 84
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW SE Sec. 21 T20S R30E, NMPM						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 12/29/2022		DRILLING ENDED 12/29/2022	DEPTH OF COMPLETED WELL (FT) Soil Boring		BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 93.8	DATE STATIC MEASURED 1/10/2023	
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	101	6.5"	Soil boring	--	--	--	--
	0	81	6.5"	1" PVC SCH 80 temporary material	flush tread 2 TPI	0.935	0.179	--
	81	101	6.5"	1" PVC SCH 80 temporary material	flush tread 2 TPI	0.935	0.179	0.010"

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 01/28/2022)		
FILE NO.		POD NO.	TRN NO.		
LOCATION			WELL TAG ID NO.		PAGE 1 OF 2

USE DTI JAN 10 2023 AM 10:51

WR-20 Well Record and Log-forsign

Final Audit Report

2023-01-19

Created:	2023-01-19
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAACBg8HZCMcE_lq-qgyEsg9YTs3DdqnsBU

"WR-20 Well Record and Log-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2023-01-19 - 5:13:35 PM GMT- IP address: 64.17.82.146
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-01-19 - 5:14:55 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2023-01-19 - 5:16:30 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-01-19 - 5:16:50 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2023-01-19 - 5:16:50 PM GMT

USE DTI JAN 19 2023 AM 10:51



APPENDIX C

Photographic Log



Photographic Log
WPX Energy Permian, LLC
Federal G Gas Com #1
API: 30-015-20848



Photograph 1 Date: 2/15/22
Description: Initial Site Photo
View: East

Photograph 2 Date: 2/15/22
Description: Initial Site Photo
View: East



Photograph 3 Date: 10/4/22
Description: Initial Site Photo
View:

Photograph 4 Date: 10/4/22
Description: Initial Site Photo
View:



Photographic Log
WPX Energy Permian, LLC
Federal G Gas Com #1
API: 30-015-20848

Date & Time: Tue, Mar 07, 2023 at 09:18:00 MST
Position: 32.5566157, -103.972870 (-15.6ft)
Altitude: 3332ft (+11.1ft)
Datum: WGS-84
Azimuth/Bearing: 255.575W, 4533mils True (+12°)
Elevation Angle: -09.4°
Horizon Angle: -02.4°
Zoom: 0.5X
pit



Photograph 5
Description: Excavated Area
View: West

Date: 3/7/23

Date & Time: Tue, Mar 07, 2023 at 09:18:08 MST
Position: 32.5566157, -103.972869 (-15.5ft)
Altitude: 3332ft (+11.1ft)
Datum: WGS-84
Azimuth/Bearing: 183.503W, 3253mils True (+12°)
Elevation Angle: -13.0°
Horizon Angle: +06.3°
Zoom: 0.5X
pit



Photograph 6
Description: Excavated Area
View: Southwest

Date: 3/7/23



Photograph 7
Description: Excavated Area
View: North

Date: 6/13/23



Photograph 8
Description: Excavated Area
View: West

Date: 6/13/23



Photographic Log
WPX Energy Permian, LLC
Federal G Gas Com #1
API: 30-015-20848



Photograph 9 Date: 6/14/23
Description: Excavated Area
View: Northeast



Photograph 10 Date: 6/14/23
Description: Excavated Area
View: East



Photograph 11 Date: 6/14/23
Description: Excavated Area
View: North



Photograph 12 Date: 6/14/23
Description: Contaminated Soil Pile
View: Northwest



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 17, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: FEDERAL G GAS COM 1

Enclosed are the results of analyses for samples received by the laboratory on 10/12/22 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 1 (1-1.5) (H224799-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	218	109	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	225	113	200	26.2	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 1 (2-2.5) (H224799-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	218	109	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	225	113	200	26.2	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 1 (3-3.5) (H224799-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	218	109	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	225	113	200	26.2	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 1 (4-4.5) (H224799-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	218	109	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	225	113	200	26.2	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 1 (5-5.5) (H224799-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	218	109	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	225	113	200	26.2	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 1 (6-6.5) (H224799-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	218	109	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	225	113	200	26.2	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 1 (7-7.5) (H224799-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	218	109	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	225	113	200	26.2	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 2 (1-1.5) (H224799-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	216	108	200	5.06	QM-07
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 68.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.1 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 2 (2-2.5) (H224799-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	216	108	200	5.06	
DRO >C10-C28*	85.3	10.0	10/13/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 2 (3-3.5) (H224799-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 72.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.2 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 2 (4-4.5) (H224799-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 2 (5-5.5) (H224799-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	216	108	200	5.06	
DRO >C10-C28*	19.2	10.0	10/13/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 2 (6-6.5) (H224799-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	31.1	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 2 (7-7.5) (H224799-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	116	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 2 (8-8.5) (H224799-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	129	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	16.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 3 (0-.5) (H224799-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	27.6	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 3 (1-1.5) (H224799-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.8 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 3 (2-2.5) (H224799-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 3 (3-3.5) (H224799-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.2 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 3 (4-4.5) (H224799-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 4 (2-2.5) (H224799-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 4 (3-3.5) (H224799-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	748	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	120	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 4 (4-4.5) (H224799-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	414	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	68.6	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 4 (5-5.5) (H224799-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	527	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	104	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 140 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 4 (6-6.5) (H224799-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 4 (7-7.5) (H224799-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - 4 (8-8.5) (H224799-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/14/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2022	ND	216	108	200	5.06	
DRO >C10-C28*	<10.0	10.0	10/14/2022	ND	230	115	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	10/14/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: H - 1 (H224799-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/15/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	196	97.9	200	2.59	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	186	93.2	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: H - 2 (H224799-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/15/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	196	97.9	200	2.59	
DRO >C10-C28*	14.9	10.0	10/13/2022	ND	186	93.2	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: H - 3 (H224799-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/15/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	196	97.9	200	2.59	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	186	93.2	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	10/12/2022	Sampling Date:	10/12/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	FEDERAL G GAS COM 1	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: H - 4 (H224799-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	1.80	89.9	2.00	11.8	
Toluene*	<0.050	0.050	10/15/2022	ND	1.94	97.2	2.00	9.03	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	1.78	89.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	5.30	88.3	6.00	11.9	
Total BTEX	<0.300	0.300	10/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	196	97.9	200	2.59	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	186	93.2	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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LOF 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTGE Project Manager: Ethan Sessions Address: 402 E Wood Ave City: Carlisbad State: NM Zip: 88220 Phone #: 254 266 5456 Fax #: Project #: Project Owner: Deann Project Name: Federal Gas Com 1 Project Location: Eddy County Sampler Name: Celer Kembs II		P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY		BILL TO	
Lab I.D. H-24799	Sample I.D. 1 2 3 4 5 6 7 8 9 10	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME ANALYSIS REQUEST
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Verbal Results: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:	
Relinquished By: [Signature]		Received By: [Signature]	
Date: 10-12-22 Time: 1555		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
Delivered By: (Circle One) UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other:		Observed Temp. °C: 29.4 Corrected Temp. °C: 28.8 Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: [Signature]	

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2064

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company:					
Address:		Attn:					
City:		Address:					
State:		City:					
Zip:		State:					
Phone #:		Fax #:					
Project #:		Project Owner:					
Project Name:		City:					
Project Location:		State:					
Sample Name:		Phone #:					
FOR LAB USE ONLY		Fax #:					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	
H224799	5-2 (4-4.5)	6	1	SOIL		DATE	TIME
11	5-2 (5-5.5)			OIL		10-12	1:45
12	5-2 (6-6.5)			SLUDGE			
13	5-2 (7-7.5)			OTHER:			
14	5-2 (8-8.5)			ACID/BASE:			
15	5-3 (9-9.5)			ICE / COOL			
16	5-3 (10-10.5)			OTHER:			
17	5-3 (11-11.5)						
18	5-3 (12-12.5)						
19	5-3 (13-13.5)						
20	5-3 (14-14.5)						
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>							
Relinquished By:	Date:	Received By:	Date:	REMARKS:			
	10-12-22		10-12-22	BTEX TPH Chlorides			
Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only)
Sampler - UPS - Bus - Other:	29.4	28.8	Cool Intact	AE		Rush	Cool Intact
			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>				Observed Temp. °C
			Yes <input type="checkbox"/> No <input type="checkbox"/>				Corrected Temp. °C

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3054

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager:		Company:																	
Address:		Attn:																	
City:		Address:																	
State:		City:																	
Zip:		State:																	
Phone #:		Fax #:																	
Project #:		Project Owner:																	
Project Name:		City:																	
Project Location:		State:																	
Sampler Name:		Phone #:																	
FOR LAB USE ONLY		Fax #:																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME											
H324799	S-4 (2-25)	G	1	SOIL			10.12	1:45											
21	S-4 (3-3.5)			X															
22	S-4 (4-4.5)																		
23	S-4 (5-5.5)																		
24	S-4 (6-6.5)																		
25	S-4 (7-7.5)																		
26	S-4 (8-8.5)																		
27	H-1																		
28	H-2																		
29	H-3																		
30	H-3																		



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4054

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company:					
Address:		Attn:					
City:		Address:					
State: Zip:		City:					
Phone #: Fax #:		State: Zip:					
Project #: Project Owner:		Phone #: Fax #:					
Project Name:		Matrix:					
Project Location:		PRESERV:					
Sampler Name:		SAMPLING:					
FOR LAB USE ONLY							
Lab I.D.		Sample I.D.					
H224799 31		4-4					
		(G)RAB OR (C)OMP.					
		# CONTAINERS		61			
		GROUNDWATER					
		WASTEWATER					
		SOIL		X			
		OIL					
		SLUDGE					
		OTHER:					
		ACID/BASE:					
		ICE / COOL					
		OTHER:					
		DATE		10-12-22			
		TIME		1:45			
						BTEX	
						TPH	
						Chlorides	

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Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:

Relinquished By: *[Signature]* Date: 10-12-22
 Received By: *[Signature]* Time: 3:55

Delivered By: (Circle One) Observed Temp. °C: 29.4 Sample Condition: Intact Cool Yes No
 Corrected Temp. °C: 28.8 Checked BY: (Initials) *yo*
 Turnaround Time: Standard Rush Bacteria (only) Sample Condition: Intact Cool Yes No
 Thermometer ID #113 Corrected Temp. °C: Yes No

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Federal G Gas Com #001

Work Order: E303149

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/3/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/3/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Federal G Gas Com #001
Workorder: E303149
Date Received: 3/31/2023 5:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/31/2023 5:45:00AM, under the Project Name: Federal G Gas Com #001.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 04/03/23 15:54
--	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02 4.5-5.5'	E303149-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS01 2.5-3.5'	E303149-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:54:46PM
--	---	--

FS02 4.5-5.5'

E303149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
---------	--------	-----------------	----------	----------	----------	-------

Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL		Batch: 2313072
Benzene	ND	0.0250	1	03/30/23	03/31/23
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23
Toluene	ND	0.0250	1	03/30/23	03/31/23
o-Xylene	ND	0.0250	1	03/30/23	03/31/23
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23

<i>Surrogate: Bromofluorobenzene</i>	99.1 %	70-130		03/30/23	03/31/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130		03/30/23	03/31/23
<i>Surrogate: Toluene-d8</i>	100 %	70-130		03/30/23	03/31/23

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23
<i>Surrogate: Bromofluorobenzene</i>	99.1 %	70-130		03/30/23	03/31/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130		03/30/23	03/31/23
<i>Surrogate: Toluene-d8</i>	100 %	70-130		03/30/23	03/31/23

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2313069
Diesel Range Organics (C10-C28)	320	25.0	1	03/30/23	03/31/23
Oil Range Organics (C28-C36)	322	50.0	1	03/30/23	03/31/23
<i>Surrogate: n-Nonane</i>	110 %	50-200		03/30/23	03/31/23

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2313077
Chloride	29.6	20.0	1	03/30/23	03/31/23



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:54:46PM
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FS01 2.5-3.5'

E303149-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313072
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313069
Diesel Range Organics (C10-C28)	142	25.0	1	03/30/23	03/31/23	
Oil Range Organics (C28-C36)	74.3	50.0	1	03/30/23	03/31/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	03/30/23	03/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313077
Chloride	204	20.0	1	03/30/23	03/31/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:54:46PM
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Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313072-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.466		0.500		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

LCS (2313072-BS1)

Prepared: 03/30/23 Analyzed: 03/31/23

Benzene	2.12	0.0250	2.50		84.9	70-130			
Ethylbenzene	2.19	0.0250	2.50		87.6	70-130			
Toluene	2.16	0.0250	2.50		86.5	70-130			
o-Xylene	2.23	0.0250	2.50		89.2	70-130			
p,m-Xylene	4.41	0.0500	5.00		88.2	70-130			
Total Xylenes	6.64	0.0250	7.50		88.5	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS Dup (2313072-BSD1)

Prepared: 03/30/23 Analyzed: 03/31/23

Benzene	2.19	0.0250	2.50		87.6	70-130	3.22	23	
Ethylbenzene	2.31	0.0250	2.50		92.3	70-130	5.29	27	
Toluene	2.26	0.0250	2.50		90.3	70-130	4.34	24	
o-Xylene	2.32	0.0250	2.50		92.6	70-130	3.74	27	
p,m-Xylene	4.60	0.0500	5.00		91.9	70-130	4.14	27	
Total Xylenes	6.91	0.0250	7.50		92.1	70-130	4.01	27	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:54:46PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313072-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.466		0.500		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

LCS (2313072-BS2)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.6	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

LCS Dup (2313072-BSD2)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130	3.16	20	
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:54:46PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313069-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.0		50.0		102	50-200			

LCS (2313069-BS1)

Prepared: 03/30/23 Analyzed: 03/31/23

Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: <i>n</i> -Nonane	47.6		50.0		95.1	50-200			

Matrix Spike (2313069-MS1)

Source: E303143-01

Prepared: 03/30/23 Analyzed: 03/31/23

Diesel Range Organics (C10-C28)	475	25.0	250	235	95.8	38-132			
Surrogate: <i>n</i> -Nonane	46.5		50.0		93.1	50-200			

Matrix Spike Dup (2313069-MSD1)

Source: E303143-01

Prepared: 03/30/23 Analyzed: 03/31/23

Diesel Range Organics (C10-C28)	492	25.0	250	235	103	38-132	3.55	20	
Surrogate: <i>n</i> -Nonane	45.9		50.0		91.8	50-200			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:54:46PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313077-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Chloride	ND	20.0							
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LCS (2313077-BS1)

Prepared: 03/30/23 Analyzed: 03/31/23

Chloride	248	20.0	250		99.0	90-110			
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Matrix Spike (2313077-MS1)

Source: E303148-01

Prepared: 03/30/23 Analyzed: 03/31/23

Chloride	388	20.0	250	134	101	80-120			
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Matrix Spike Dup (2313077-MSD1)

Source: E303148-01

Prepared: 03/30/23 Analyzed: 03/31/23

Chloride	390	20.0	250	134	102	80-120	0.585	20	
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QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 04/03/23 15:54
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client: WPX Permian Energy, LLC	Bill To	Lab Use Only				TAT			EPA Program		
Project: Federal G Gas Com #001	Attention: Jim Raley	Lab WO# E303149	Job Number 010580007			1D	2D	3D	Standard 5 Day TAT	CWA	SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.	Analysis and Method									
Address: 3122 National Parks HWY	City, State, Zip: Carlsbad, NM, 88220										
City, State, Zip: Carlsbad, NM, 88220	Phone: 575-885-7502										
Phone: 832-541-7719	Email: jim.raley@dvn.com										
Email: devon-team@ensolum.com	Cost Center: 1061164701	State									
Collected by: Yocoly Edyte Konan	Incident ID:	Remarks									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
15:40	3.29.23	S	1	F527 FS01	1	4.5-5.5						X		
15:50	3.29.23	S	1	F528 FS02	2	2.5-3.5						X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Sampled by: Gilbert Moreno						Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N					
Relinquished by: (Signature) <i>[Signature]</i>	Date 03/30/23	Time 09:00	Received by: (Signature) <i>[Signature]</i>	Date 3-30-23	Time 09:00	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>					
Relinquished by: (Signature) <i>[Signature]</i>	Date 3-30-23	Time 1730	Received by: (Signature) <i>[Signature]</i>	Date 3-30-23	Time 1730						
Relinquished by: (Signature) <i>[Signature]</i>	Date 3-30-23	Time 2315	Received by: (Signature) <i>[Signature]</i>	Date 3-31-23	Time 5:45						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 3/31/2023 10:01:39AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: WPX Energy - Carlsbad	Date Received: 03/31/23 05:45	Work Order ID: E303149
Phone: (539) 573-4018	Date Logged In: 03/30/23 14:37	Logged In By: Alexa Michaels
Email: devon-team@ensolum.com	Due Date: 03/31/23 17:00 (0 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Client has changed the TAT to 24hr rush

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Federal G Gas Com #001

Work Order: E303151

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/3/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



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

Date Reported: 4/3/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Federal G Gas Com #001
Workorder: E303151
Date Received: 3/31/2023 5:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/31/2023 5:45:00AM, under the Project Name: Federal G Gas Com #001.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 04/03/23 15:49
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-5.5'	E303151-01A	Soil	03/30/23	03/31/23	Glass Jar, 4 oz.
SW02 0-5.5'	E303151-02A	Soil	03/30/23	03/31/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:49:29PM
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SW01 0-5.5'

E303151-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23
Toluene	ND	0.0250	1	03/30/23	03/31/23
o-Xylene	ND	0.0250	1	03/30/23	03/31/23
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23

<i>Surrogate: Bromofluorobenzene</i>	101 %	70-130		03/30/23	03/31/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	113 %	70-130		03/30/23	03/31/23
<i>Surrogate: Toluene-d8</i>	103 %	70-130		03/30/23	03/31/23

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23
<i>Surrogate: Bromofluorobenzene</i>	101 %	70-130		03/30/23	03/31/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	113 %	70-130		03/30/23	03/31/23
<i>Surrogate: Toluene-d8</i>	103 %	70-130		03/30/23	03/31/23

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2313070
Diesel Range Organics (C10-C28)	130	25.0	1	03/30/23	03/31/23
Oil Range Organics (C28-C36)	135	50.0	1	03/30/23	03/31/23
<i>Surrogate: n-Nonane</i>	103 %	50-200		03/30/23	03/31/23

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2313077
Chloride	103	20.0	1	03/30/23	03/31/23



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:49:29PM
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SW02 0-5.5'

E303151-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		98.3 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		98.3 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2313070
Diesel Range Organics (C10-C28)	94.9	25.0	1	03/30/23	03/31/23	
Oil Range Organics (C28-C36)	105	50.0	1	03/30/23	03/31/23	
<i>Surrogate: n-Nonane</i>		106 %	50-200	03/30/23	03/31/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2313077
Chloride	181	20.0	1	03/30/23	03/31/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:49:29PM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313073-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.514		0.500		103		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.554		0.500		111		70-130		
Surrogate: Toluene-d8	0.499		0.500		99.8		70-130		

LCS (2313073-BS1)

Prepared: 03/30/23 Analyzed: 03/31/23

Benzene	2.47	0.0250	2.50		99.0		70-130		
Ethylbenzene	2.57	0.0250	2.50		103		70-130		
Toluene	2.60	0.0250	2.50		104		70-130		
o-Xylene	2.59	0.0250	2.50		104		70-130		
p,m-Xylene	5.14	0.0500	5.00		103		70-130		
Total Xylenes	7.73	0.0250	7.50		103		70-130		
Surrogate: Bromofluorobenzene	0.531		0.500		106		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.575		0.500		115		70-130		
Surrogate: Toluene-d8	0.519		0.500		104		70-130		

LCS Dup (2313073-BSD1)

Prepared: 03/30/23 Analyzed: 03/31/23

Benzene	2.49	0.0250	2.50		99.6		70-130	0.685	23
Ethylbenzene	2.51	0.0250	2.50		100		70-130	2.27	27
Toluene	2.57	0.0250	2.50		103		70-130	1.16	24
o-Xylene	2.55	0.0250	2.50		102		70-130	1.71	27
p,m-Xylene	5.04	0.0500	5.00		101		70-130	1.91	27
Total Xylenes	7.58	0.0250	7.50		101		70-130	1.84	27
Surrogate: Bromofluorobenzene	0.542		0.500		108		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.553		0.500		111		70-130		
Surrogate: Toluene-d8	0.512		0.500		102		70-130		



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Federal G Gas Com #001	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/3/2023 3:49:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313073-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.554		0.500		111	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

LCS (2313073-BS2)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

LCS Dup (2313073-BSD2)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130	1.57	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.559		0.500		112	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:49:29PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313070-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.6		50.0		103	50-200			

LCS (2313070-BS1)

Prepared: 03/30/23 Analyzed: 03/31/23

Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			

Matrix Spike (2313070-MS1)

Source: E303150-03

Prepared: 03/30/23 Analyzed: 03/31/23

Diesel Range Organics (C10-C28)	712	25.0	250	430	113	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike Dup (2313070-MSD1)

Source: E303150-03

Prepared: 03/30/23 Analyzed: 03/31/23

Diesel Range Organics (C10-C28)	750	25.0	250	430	128	38-132	5.10	20	
Surrogate: n-Nonane	50.2		50.0		100	50-200			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Federal G Gas Com #001 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/3/2023 3:49:29PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313077-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Chloride	ND	20.0							
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LCS (2313077-BS1)

Prepared: 03/30/23 Analyzed: 03/31/23

Chloride	248	20.0	250		99.0	90-110			
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Matrix Spike (2313077-MS1)

Source: E303148-01

Prepared: 03/30/23 Analyzed: 03/31/23

Chloride	388	20.0	250	134	101	80-120			
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Matrix Spike Dup (2313077-MSD1)

Source: E303148-01

Prepared: 03/30/23 Analyzed: 03/31/23

Chloride	390	20.0	250	134	102	80-120	0.585	20	
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QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Federal G Gas Com #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/03/23 15:49

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client: WPX Permian Energy, LLC	Bill To	Lab Use Only				TAT			EPA Program					
Project: Federal G Gas Com #001	Attention: Jim Raley	Lab WO# E303151	Job Number 01058-0057	1D	2D	3D	Standard 24H TAT	CWA	SDWA					
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.	Analysis and Method								RCRA				
Address: 3122 National Parks HWY	City, State, Zip: Carlsbad, NM, 88220	Depth(ft)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State				
City, State, Zip: Carlsbad, NM, 88220	NM									CO	UT	AZ	TX	
Phone: 832-541-7719														
Phone: 832-541-7719														
Email: devon-team@ensolum.com	Email: jim.raley@dvn.com													
Collected by: Yocoly Edyte Konan	Cost Center: 1061164701													
	Incident ID:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
10:00	3.30.23	S	1	SW01	1	0 - 5.5'						X		
10:10	3.30.23	S	1	SW02	2	0 - 5.5'						X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>		Date: 03/30/23	Time: 11:45	Received by: (Signature) <i>[Signature]</i>		Date: 3-30-23	Time: 1145	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>		Date: 3-30-23	Time: 1730	Received by: (Signature) <i>[Signature]</i>		Date: 3-30-23	Time: 1730	
Relinquished by: (Signature) <i>[Signature]</i>		Date: 3-30-23	Time: 2315	Received by: (Signature) <i>[Signature]</i>		Date: 3-31-23	Time: 5:45	

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Released to Imaging: 7/27/2023 9:36:28 AM

Received by OGD: 7/26/2023 10:11:18 AM

Page 12 of 13

Page 92 of 100

Envirotech Analytical Laboratory

Printed: 3/31/2023 10:04:04AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: WPX Energy - Carlsbad	Date Received: 03/31/23 05:45	Work Order ID: E303151
Phone: (539) 573-4018	Date Logged In: 03/30/23 14:43	Logged In By: Alexa Michaels
Email: devon-team@ensolum.com	Due Date: 03/31/23 17:00 (0 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Client has changed the TAT to 24hr rush

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



APPENDIX E

Email Correspondence

Erick Herrera

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, March 16, 2023 10:21 AM
To: Erick Herrera
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (3/20 - 3/24/2023)

[**EXTERNAL EMAIL**]

Erick,

Thank you for the notification. The notification requirement is two full business days which would require notification at the latest at the end of the workday on Wednesday for Monday morning sampling. Also please indicate specific times, dates and locations for each sampling event. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Erick Herrera <eherrera@ensolum.com>
Sent: Thursday, March 16, 2023 8:41 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; 'CFO_Spill, BLM_NM' <blm_nm_cfo_spill@blm.gov>
Cc: Raley, Jim <jim.ralej@dnv.com>; Devon Team <Devon-Team@ensolum.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (3/20 - 3/24/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following sites between March 20 – March 24, 2023:

Site Name: Pecos Federal #001Y
API: 30-015-24875
Incident Number: nAPP2208846424

Site Name: RDX 9-1

API: 30-015-36211
Incident Number: nAB1728635377

Site Name: Federal G Gas Com #001
API: 30-015-20848
Incident Number: nAB1428733041

Thank you,



Erick Herrera
Staff Geologist
281-777-4152
Ensolum, LLC
in f 

From: [Ashley Giovengo](#)
To: [Cole Burton](#)
Subject: FW: [EXTERNAL] 48-hour Confirmation Sampling Notification Email - Federal G Gas Com #1
Date: Thursday, July 6, 2023 9:21:19 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, May 15, 2023 2:09 PM
To: Ashley Giovengo <agiovengo@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification Email - Federal G Gas Com #1

[**EXTERNAL EMAIL**]

Ashley,

I am not sure when your original email was sent however please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, May 15, 2023 10:13 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Cole Burton <cburton@ensolum.com>

Subject: [EXTERNAL] 48-hour Confirmation Sampling Notification Email - Federal G Gas Com #1

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

Due to an internet connectivity issue, the initial 48-hour confirmation sampling notification email was not received via the incident group notification email ocd.enviro@emnrd.nm.gov

Please let this email serve as notice to re-collect confirmation samples at the Federal G Gas Com #1 on 05/12/2023 and 05/15/2023.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

From: [Ashley Giovengo](#)
To: [Enviro_OCD_EMNRD](#)
Cc: [Bratcher, Michael, EMNRD](#); [Cole Burton](#); [Ronni Hayes](#)
Subject: 48-hour Confirmation Sampling Notification Email - Federal G Gas Com #1
Date: Friday, June 9, 2023 11:49:49 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hello,

We intend to collect confirmation samples at Devon Energy's Federal G Gas Com #1 site (NAB1428733041) on Tuesday, June 13, 2023, through June 14, 2023, at 09:00 am MST.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 244543

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 244543
	Action Type: [C-144] Temporary Pit Plan (C-144T)

CONDITIONS

Created By	Condition	Condition Date
venegas	A closure report was submitted to show that all approved closure plan requirements were completed and no leaks from the pit were detected. Sampling results meet the closure criteria for this site. Per 19.15.17.13.H(5) NMAC, WPX will follow through with revegetating the Site. This Site is located on federal land and as such, the reclaimed area will be seeded with an approved BLM seed mixture. This Closure report has been approved on 07/27/2023	7/27/2023