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Incident ID	nAB1428733041
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:	Jim Raley	_Environmental Specialist
Signature:	fin Roly	 Date:
email:	_jim.raley@dvn.com	 Telephone:575-689-7597
OCD Only		
Received by: _		 Date:

Received by OCD: 7/26/2023 9:27:22 AM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	nAB1428733041
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>93.8 (</u> ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Printed Name: James Ral	ey	Title: Environmenta	al Specialist			
Signature:		Date: <u>07/21/2023</u>				
email: jim.raley@dvn.co	<u>m</u>	Telephone: <u>575-689</u>	<u>9-7597</u>			
OCD Only						
Received by: <u>Shelly We</u>	lls	Date: <u>7/27/</u>	2023			

Oil Conservation Division

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Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name:
OCD Only
Received by: Shelly Wells Date: 7/27/2023
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: <u>Ashley Maywell</u> Date: <u>8/17/2023</u>
Printed Name: Ashley Maxwell

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CLOSURE REQUEST REPORT

Site Location:

Federal G Gas Com #1 Eddy County, New Mexico Incident Number: nAB1428733041

July 13, 2023 Ensolum Project No. 03A1987002

Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, New Mexico 88220 Attention: Jim Raley

Prepared by:

Ashley N. Giovengo Senior Engineer

Daniel R. Moir, PG Senior Managing Geologist

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

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	3.3 Laboratory Analytical Results	3
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REFERENCE MATERIALS

FIGURES

Figure 1: Site Receptor Map

Figure 2: Excavation Soil Sample Locations

TABLES

 Table 1: Soil Sample Analytical Results – Excavation Floor Soil Samples

 Table 2: Soil Sample Analytical Results – Sidewall Soil Samples

APPENDICES

Appendix A: C-141 Form

Appendix B: Groundwater Measurement Form

Appendix C: Vertex's Spill Assessment Report, dated April 25, 2018

Appendix D: LT Environmental, Inc. Data

Appendix E: Photographic Log

Appendix F: Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix G: Email Correspondence



Page 1

1.0 INTRODUCTION

1.1 Site Description

Ensolum, LLC (Ensolum) has prepared this *Closure Request Report* (CRR) to document assessment, corrective actions performed to date, and subsequent soil sampling activities conducted by WPX Energy Permian, LLC (WPX) at the Federal G Gas Com #1 (Site), located in Unit J, Section 21, Township 20 South, Range 30 East, in Eddy County, New Mexico (**Figure 1**). Based on all remedial actions and results of soil sampling events completed for the release of produced water at the Site, WPX respectfully requests no further action (NFA) for Incident Number nAB1428733041.

1.2 Release Background

On October 9, 2014, a produced water tank developed a hole, which resulted in the release of approximately 15 barrels (bbls) of produced water inside the bermed, earthen, tank battery containment. A vacuum truck was immediately dispatched to the Site and recovered 14 bbls of fluid contained from the unbreeched containment. The incident was reported to the New Mexico Oil Conservation Division (NMOCD) on a *Release Notification and Corrective Action Form* (Form C-141) on October 9, 2014, by the former operator, RKI E&P, LLC, and was subsequently assigned Incident Number nAB1428733041 (**Appendix A**).

1.3 Site Characterization

The Site was characterized to assess the applicability of Table I, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on **Figure 1**.

The New Mexico Office of the State Engineer (NMOSE) indicates the nearest depth to groundwater measurement is 93.8 feet below ground surface (bgs) and the depth to groundwater soil boring, NMOSE file number CP-1937, is located approximately 73 ft northwest of the Site as shown in **Figure 1**. The well log file and record is provided in **Appendix B**. The soil boring was installed on December 29, 2022, and was utilized to determine depth to groundwater beneath the Site and subsequent to groundwater measurement, the soil boring was properly plugged and abandoned and is not considered a potential conduit between the ground surface and shallow groundwater.

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



- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

Per 19.15.29.13 NMAC, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the caliche pad that was impacted by the release.

2.0 DELINEATION ACTIVITIES

On August 17, 2017, Vertex Resources Services Inc. (Vertex) assessed the release extent to confirm the presence or absence of impacted soil from the 2014 release. Vertex advanced six soil borings (BH17-01, BH17-03, and BH17-05 through BH17-08) via hand methods (auger and/or shovel) to total depths of 2 feet bgs. The soil samples were submitted to ALS Laboratory Group (ALS) in Holland Michigan for the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8260B, TPH following EPA method 8015, and chloride following National Environmental Methods Index (NEMI) A4500-CL E-97.

Laboratory analytical results from the Vertex sampling event indicated detections of TPH and chloride were present in soil. At the time of sampling, there were no water wells within ½-mile of the Site and the chloride concentration in soil boring BH17-03 indicated the soil could have potentially exceeded the previous Closure Criteria. Vertex's *Spill Assessment Report*, dated April 25, 2018, is included in **Appendix C**.

WPX contracted with LT Environmental, Inc. (LTE) in 2018 to complete additional delineation activities based on the elevated chloride concentration in soil boring BH17-03. On October 12, 2018, LTE advanced seven soil borings (SS01 through SS07) and collected two samples from each location; one sample was collected at 0.5 feet bgs and one was collected at 1-foot or 1.5 feet bgs. The soil samples were submitted to Xenco Laboratories (Xenco) in Midland Texas for analysis of BTEX, TPH, and chloride following EPA Method 300.0.

Laboratory analytical results from LTE's sampling event indicated concentrations of TPH-GRO and TPH-DRO and/or total TPH exceeded the Closure Criteria in soil from soil samples SS03 and SS04, located inside the secondary containment. Based on the laboratory analytical results, remediation of impacted soil appeared warranted. Data available from LTE's sampling event is included in **Appendix D**.

3.0 EXCAVATION ACTIVITIES

3.1 Excavation and Reclamation

Following delineation activities completed by LTE in 2018, follow-up remediation was completed in the form of excavation of TPH-impacted soil. Excavation of impacted soil occurred in January 2019; however, it appears excavation was limited in extent due to the presence of active flow lines, production equipment, and produced water tank. Following completion of excavation activities to the maximum extent practicable (MEP), LTE collected confirmation floor soil samples FS01 through FS05 at depths ranging from 2 feet to 3.5 feet bgs and confirmation sidewall soil samples SW01 through SW03 at depths ranging from the ground surface to 3.5 feet bgs. The soil samples were analyzed for BTEX, TPH, and chloride.

Laboratory analytical results indicated concentrations of TPH-GRO and TPH-DRO exceeded the Closure Criteria in confirmation soil samples FS01 and SS02, located next to the produced water tank, and confirmation soil samples FS04, FS05, and SW03, located next to an active flow line. Due to the safety concerns with excavating the residual impacts around active production equipment and lines, WPX was prepared to defer the remaining remediation until their anticipated plugging and abandonment of the onsite production well. Based on the depth of residual impacts

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below the ground surface and the known depth to groundwater to be greater than 50 feet bgs, WPX believed these actions were equally protective of human health, the environment, and groundwater. Data available from LTE's excavation and soil sampling event are presented in **Appendix D**.

The production well was decommissioned and properly plugged and abandoned at the end of 2022. As such, WPX contracted Ensolum to complete remediation activities related to the residual TPH-impacts in soil. From March 9, 2023, through June 13, 2023, Ensolum personnel oversaw the remediation and reclamation of the entire earthen tank battery containment. Excavation activities were directed by referencing laboratory analytical results from previous excavation confirmation and delineation soil sampling results. The excavation was completed with heavy mechanical equipment and soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

Following removal of residual and waste-containing soil, Ensolum personnel collected composite confirmation soil samples at a sampling frequency of every 200 square feet from the floor and from the sidewalls of the exaction. 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. Composite soil samples FS01 through FS26 were collected from the floor of the excavation at depths ranging from 3 feet to 23 feet bgs. Composite sidewall soil samples SW01 through SW25 were collected at depths ranging from the ground surface to 15 feet bgs. The excavation extent and confirmation soil sample locations are presented on **Figure 2**. A photographic log of the excavation is included in **Appendix E**.

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 Envirotech Laboratory Analysis (Envirotech) in Carlsbad, New Mexico, for analysis BTEX following EPA Method 8021B; TPH; and chloride.

3.2 Waste Handling

The final excavation extent measured approximately 6,658 square feet in areal extent. Approximately 4,000 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.

3.3 Laboratory Analytical Results

Laboratory analytical results for excavation floor samples FS18, through FS20 and sidewall samples SW07, SW12, SW15, SW18, SW21, and SW23 indicated TPH concentrations exceeded the applicable Site Closure Criteria. As a result, the excavation was advanced in those sample locations. Following the removal of impacted soil, Ensolum personnel recollected confirmation samples FS18 through FS20 and sidewall samples SW07, SW12, SW15, SW18, SW21 and SW23 following the same procedures as described above. All confirmation soil samples collected from the floor of the excavation and from the sidewalls were in compliance with the applicable Site Closure Criteria and meet the reclamation requirements in the top 4 feet as set forth in 19.15.29.13 NMAC.

The analytical results are summarized in **Table 1 & Table 2**, the executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**. Email correspondence with NMOCD is provided in **Appendix G**.

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4.0 CLOSURE REQUEST

The primary objectives of Ensolum's scope of services were to document remediation activities performed at the Site in accordance with the applicable NMOCD regulatory guidelines, specifically remediating residual soil impacts that could not be accessed during the previous excavation activities in 2019. Based on the results documented in this CRR, the following findings and conclusions regarding the subject release are presented:

- The Site has been laterally and vertically delineated to the strictest Closure Criteria per NMOCD Table I.
- Laboratory analytical results for confirmation floor soil samples FS01 through FS27 and sidewall soil samples SW01 through SW25 were in compliance with the Site Closure Criteria and with the reclamation standard.
- The excavation area will be backfilled and reseeded in the fall with a Bureau of Land Management (BLM)-approved seed mixture in order to revegetate the reclaimed Site.

Based on the conclusions presented, WPX believes the remediation activities described above have met the requirements set forth in NMAC 19.15.29.13 to be protective of human health, the environment, and groundwater. As such, WPX respectfully requests closure of Incident Number nAB1428733041.





FIGURES

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TABLES

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	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Federal G Gas Com #1 Devon Energy 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
				Excava	tion Floor Soil S	amples	•	·		
FS01	3/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS02	3/27/2023	4	<0.0250	<0.0500	<20.0	391	183	391	574	154
FS03	3/27/2023	4	<0.0250	<0.0500	<20.0	137	53	137	190	78.7
FS04	3/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	373
FS05	3/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	544
FS06	3/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	187
FS07	3/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	33.6
FS08	3/29/2023	4	<0.0250	<0.0500	<20.0	99.5	132	99.5	231.5	84.1
FS09	3/29/2023	4	<0.0250	<0.0500	<20.0	334	265	334	299	134
FS10	3/29/2023	4	<0.0250	<0.0500	<20.0	756	463	756	1,219	150
FS11	3/29/2023	15	<0.0250	<0.0500	<20.0	183	<50.0	183	183	43.3
FS12	3/29/2023	15	<0.0250	<0.0500	<20.0	509	85.1	509	594.1	46.4
FS13	3/29/2023	15	<0.0250	<0.0500	<20.0	187	<50.0	187	187	52.1
FS14	3/29/2023	15	<0.0250	<0.0500	<20.0	220	79.2	220	299	49.9
FS15	3/29/2023	6	<0.0250	<0.0500	<20.0	221	187	221	408	66
FS16	3/29/2023	6	<0.0250	<0.0500	<20.0	44.5	<50.0	44.5	44.5	93.2
FS17	3/29/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	365
FS18 *	3/29/2023	2	<0.0250	<0.0500	<20.0	493	258	493	751	58.9
FS18	6/13/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	235
FS19 *	3/29/2023	2	<0.0250	<0.0500	<20.0	514	293	514	807	51.5
FS19	6/13/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	145

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	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - Continued Federal G Gas Com #1 Devon Energy 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
				Excava	ation Floor Soil S	amples		• •	·	
FS20 *	3/29/2023	2	<0.0250	< 0.0500	<20.0	430	275	430	705	38.8
FS20 *	6/13/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	91.7
FS21	3/29/2023	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	248
FS22	3/29/2023	12	<0.0250	<0.0500	<20.0	26.4	<50.0	26.4	26.4	232
FS23	3/29/2023	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	77.7
FS24	3/29/2023	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	79.2
FS25	3/29/2023	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	678
FS26	3/29/2023	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	667
FS27	5/15/2023	15	<0.0250	5.646	418	3030	<50.0	3448	3,448	154
FS27	5/25/2023	23	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.5

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: 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 NMOCD 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

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				Fe	TABLE 2 LE ANALYTICA deral G Gas Com Devon Energy County, New Mage	#1				
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
				Sic	dewall Soil Samp	les				
SW01 *	3/27/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW01 *	5/12/2023	0-5.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW02 *	3/27/2023	0-4	<0.0250	<0.0500	<20.0	45.8	<50.0	45.8	45.8	<20.0
SW02 *	5/12/2023	0-5.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	219
SW03 *	3/27/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	165
SW04 *	3/27/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	139
SW05 *	3/29/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	124
SW06 *	3/29/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	233
SW07 *	3/29/2023	0-4	<0.0250	<0.0500	<20.0	50.3	62.4	50.3	112.7	148
SW07 *	5/12/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	130
SW08	3/29/2023	4-15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	134
SW09	3/29/2023	4-15	<0.0250	<0.0500	<20.0	34.2	<50.0	34.2	34.2	<20.0
SW10	3/29/2023	4-15	<0.0250	<0.0500	<20.0	47.5	<50.0	47.5	47.5	<20.0
SW11	3/29/2023	4-15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW12 *	3/29/2023	0-6	<0.0250	<0.0500	<20.0	83.4	63.1	83.4	146.5	89.2
SW12 *	5/15/2023	0-6	<0.0250	<0.0500	<20.0	50.8	<50.0	50.8	50.8	113
SW13 *	3/29/2023	0-6	<0.0250	<0.0500	<20.0	25.7	<50.0	25.7	25.7	103
SW14 *	3/29/2023	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	35.9

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	TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - Continued Federal G Gas Com #1 Devon Energy 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
				Sic	lewall Soil Samp	les	·			
SW15	3/29/2023	6-15	<0.0250	<0.0500	<20.0	235	237.0	235	472	66.5
SW16	3/29/2023	6-15	<0.0250	<0.0500	<20.0	39.8	<50.0	39.8	39.8	208
SW17	3/29/2023	6-15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	129
SW18 *	3/29/2023	0-2	<0.0250	<0.0500	<20.0	274	190.0	274	464	274
SW18 *	5/15/2023	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	129
SW19 *	3/29/2023	2-12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	121
SW20 *	3/29/2023	2-12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	136
SW21	3/29/2023	4-12	<0.0250	<0.0500	<20.0	179	82.1	179	261.1	<20.0
SW21	5/15/2023	4-12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	125
SW22	3/29/2023	4-12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.3
SW23	3/29/2023	4-12	<0.0250	<0.0500	<20.0	168	99.8	168	267.8	<20.0
SW23	5/15/2023	4-12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	43
SW24 *	3/29/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW25	3/29/2023	4-12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	327

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: 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 NMOCD 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

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APPENDIX A

C-141 Form

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Oil Conservation Division

Incident ID	nAB1428733041
District RP	
Facility ID	
Application ID	

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 \boxtimes All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

	Jim Raley	_Environmental Specialist
Signature:	fin Roby	 Date:
email:	jim.raley@dvn.com	 Telephone:575-689-7597
OCD Only		
Received by: _		 Date:

Received by OCD: 7/26/2023 9:27:22 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 23 0J 32
Incident ID	nAB1428733041
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>93.8 (</u> ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Page 3

eceived by OCD: 7/26/202	23 9:27:22 AM State of New Mexico			Page 24 of		
			Incident ID	nAB1428733041		
ge 4	Oil Conservation Division		District RP			
			Facility ID			
			Application ID			
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the l required to report and/or file certain release notin nent. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre f a C-141 report does not relieve the operator of	fications and perform co OCD does not relieve the at to groundwater, surfac	rrective actions for rel- operator of liability sh ce water, human health	eases which may endanger nould their operations have n or the environment. In		
Printed Name: James Rale	•		ll Specialist			
Signature:	¥	Date: <u>07/21/2023</u>				
email: jim.raley@dvn.cor	<u>n</u>	Telephone: <u>575-689</u>	-7597			
OCD Only						
Received by: <u>Shelly Wel</u>	ls	Date: _7/27/2	2023			

Page 6

Oil Conservation Division

Incident ID	nAB1428733041
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<u>Closure Report Attachment Checklist</u> : Each of the following iter	ms must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos or must be notified 2 days prior to liner inspection)	f the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC 1	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain a may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulatic restore, reclaim, and re-vegetate the impacted surface area to the cond accordance with 19.15.29.13 NMAC including notification to the OC Printed Name:	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in D when reclamation and re-vegetation are complete. <u>Environmental Specialist</u> Date: <u>7/26/2023</u>
email: jim.raley@dvn.com Telephone: 575	5-689-7597
OCD Only	
Received by: <u>Shelly Wells</u>	Date: <u>7/27/2023</u>
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date:
Printed Name:	Title:
- <u></u>	

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APPENDIX B

Groundwater Measurement Form

Released to Imaging: 8/17/2023 9:01:57 AM



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

Groon Middle

Lucas Middleton

Enclosures: as noted above

OSE OTT JAN 19 2023 ML0:51



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. POD-1	WELL NO	.)	WELL T n/a	AG ID NO.		OSE FILE NO(CP-1937	S).			
	WELL OWNER NAME(S) Devon Energy						PHONE (OPTIONAL)				
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy						CITY Artesia		STATE NM 882	zip 10	
	WELL 32 LOCATION LATITUDE 103				3 2:	SECONDS 22.54 * ACCURACY REQUIRED: ONE TENTH (29.92 W * DATUM REQUIRED: WGS 84			TH OF A SECOND		
		N RELATIN	NGITUDE NG WELL LOCATION TO Γ20S R30E, NMPM		O COMMON LAND	MARKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE		
TION	LICENSE NO 124		NAME OF LICENSED		e D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED DRILLING ENDED 12/29/2022 12/29/2022				TH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT Soil Boring ±101) DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: ARTESIAN , DRY HOLE IS SHALLOW (UNCONFI					CONFINED)	STATIC WATER LEVEL IN COMPLETED WELL 93.8 (FT) DATE STATIC MEASU 1/10/2023				
	DRILLING FI	.UID:	AIR	∏j MUD	ADDITIVES – SP	ECIFY:					
RMA	DRILLING M	ETHOD:	ROTARY THAMM	ER 📋 CABLE TOOL	OTHER - SP	ECIFY: H	Hollow Stem .	Auger CHECK	HERE IF PITLESS LED	ADAPTER IS	
2. DRILLING & CASING INFORMATION	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATER GRAI (include each casi	DE ing string, and	CASING CONNECTION TYPE		CASING INSIDE DIAM. (inches)	CASING WA THICKNES (inches)		
CAS	0	101	6.5"	note sections Soil bo		(add coupling diameter)					
G&	0	81	6.5"	1" PVC SCH 80 ten	-	flush tread 2 TPI		0.935	0.179		
DRILLIN	81	101	6.5"	1" PVC SCH 80 ten	nporary material	flush tread 2 TPI		0.935	0.179	0.010"	
2											
	Bond notes				NNULAR SEAL MATERIAL AND			AMOUNT (cubic feet)		METHOD OF PLACEMENT	
RIAJ	FROM	TO	DIAM. (inches)	GRAVEL PACK SIZE-RANGE BY INTERVAL					ICEMENT		
3. ANNULAR MATERIAL								JSE DIT JAN I.	S 2023 m10	:51	
	R OSE INTER	NAL USE			POD NO.		WR-2	0 WELL RECORD	& LOG (Version	01/28/2022)	
	E NO. CATION				TODINO.		WELL TAG I		P.	AGE 1 OF 2	

	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTI		TERED -	WATER		ESTIMATED YIELD FOR		
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)				BEARIN (YES / 1		WATER- BEARING ZONES (gpm)
	0	4	4	Sand, fine-grained, poorly graded, dry, tan			Y	✓ N		
4. HYDROGEOLOGIC LOG OF WELL	4	24	20	Caliche, cons	olidated with fine-grain	ined sand, dry, white/tan		Y	√ N	
	24	50	26	Sand, fine-g	Sand, fine-grained, poorly graded, witch caliche, dry, tan		Y	√ N		
	50	55	5	Sand, fine-grained, poorly graded, dry, reddish brown			Y	√ N		
	55	60	5	Sand, fine-grained,	poorly graded, poorly c	emented, dry	, reddish brown	Y	✓ N	
	60	101	41	Clay	, Stiff, (Red Bed) dry, R	eddish Brow	n	✓ Y	N	1
	-							Y	N	
5								Y	N	
Š	1							Y	N	
								Y	N	
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							TAL ESTIM/ ELL YIELD		0.00	
5. TEST; RIG SUPERVISION	WELL TEST START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.									
	MISCELLANEOUS INFORMATION: Temporary boring to determine presence and depth to groundwater. Top of boring and material sealed with bentonite. Temporary well materials to be pulled and boring to be plugged on approximately 02/01/2023, using Type I/II neat cement per OSE approved plugging plan of operations. Plugging record to be filed afterwards."									
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt									
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:									
0.510	Jack Atkins Jackie D. Atkins			USE 01	I JAN /19/2 I	20223	HWI VICUL			
-										
							WD 70 WELL D	ECODD & L	00 111-	main 01/70/303
	R OSE INTERI E NO.	NAL USE			POD NO.	1	WR-20 WELL R TRN NO.	ECORD & D	UGIVe	151011 01/26/202

WR-20 Well Record and Log-forsign

Final Audit Report

2023-01-19

Created:	2023-01-19
Ву:	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

DSE DTI JAN 13 2023 m10:51





APPENDIX C

Vertex's Spill Assessment Report, dated April 25, 2018



April 25, 2018

Spill Assessment Report: Federal G Gas Com 001 (Section 21 T20S R 30E) API: 30-015-20848 Incident Report: 2RP-2542

Prepared For: WPX Energy Inc. 5315 Buena Vista Carlsbad, New Mexico 88220

Mr. Jim Raley,

RKI Exploration, LLC, a subsidiary of WPX Energy Inc., retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for an uncontrolled release from a produced water tank that developed a hole and allowed produced water to leak from the tank into secondary containment (earthen) on Federal G Gas Com 001, API 30-015-20848 (hereafter referred to as "site"). This letter provides a description of the Spill Assessment conducted to date.

Site Information

The site is located approximately 18 miles northeast of Carlsbad, New Mexico. The legal location for the site is Section 21, Township 20 South and Range 30 East in Eddy County, New Mexico (approximately 32° 33' 22.014"N 103° 58' 29.3268"W). The affected property is leased from the Bureau of Land Management (BLM). An aerial photograph and site schematic are included in Attachment 1.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2014-2017) indicates the site's surface geology is comprised primarily of Calcareous alluvium deposits. This usually includes deposits of lower gradient tributaries, alluvial veneers of the calcareous slope, and alluvial fans. The Natural Resource Conservation Services identifies the local soils as Largo loam soils, 1-5 percent slope (loamy, carbonatic). These soils are typically loamy deep soils and soils that are shallow to the caliche. These descriptions are consistent with observations during the site visit. Site photographs obtained during the Spill Assessment are included in Attachment 2.

Incident Description

The spill, reported October 9, 2014, involved the uncontrolled release of approximately 15 barrels (bbls) of produced water from an aboveground tank. The release was caused by the produced water creating a hole in the storage tank. Approximately 15 bbls of produced water were estimated to have been released; 14 bbls were recovered by a vacuum truck. The initial C-141 Report: 2RP-2542 is included in Attachment 3.

vertex.ca

7223 Empire Central Drive, Houston, Texas 77040, USA | P 832.588.0674

Site Assessment

Initial spill response activities included the emptying of the produced water tank and removal of the produced water (14 bbls of 15 bbls) was completed by vacuum truck. The site was delineated using a hand augur and was determined that the spill is contained within the berm of the tank area.

A site visit completed on August 21, 2017, aimed to identify evidence of the spill in and around the location specified in the initial C-141. There was no evidence of crystallization of salts or surface staining. It was noted that there was infrastructure present on the site.

Using hand sampling techniques, soil samples were collected and submitted to ALS Laboratories. All of the collected soil samples from the six (6) sample locations were analyzed for chloride. The laboratory results for chloride are summarized in Table 1 and the complete laboratory reports are included in Attachment 7. Results have not been interpreted as guidelines have not been established for the site.

Sample ID	Depth	Test	Result	Units
BH17-01	0-2'	Chloride	26	mg/Kg- dry
BH17-03	0-2'	Chloride	6600	mg/Kg- dry
BH17-05	0-2'	Chloride	33	mg/Kg- dry
BH17-06	0-2'	Chloride	14	mg/Kg- dry
BH17-07	0-2'	Chloride	ND	mg/Kg- dry
BH17-08	0-2'	Chloride	130	mg/Kg- dry

Table 1 - Chloride Soil Sampling Results August 21, 2017

Sincerely,

Carl Davison, B.Sc. PROJECT MANAGER

Attachments

Attachment 1. Aerial Photograph

- Attachment 2. Site Photographs
- Attachment 3. Initial C-141 Report
- Attachment 4. Site Visit Daily Field Report
- Attachment 5. Laboratory Results

vertex.ca

7223 Empire Central Drive, Houston, Texas 77040, USA | P 832.588.0674

References

- New Mexico Oil Conservation Division. (1993). *Guidelines for Remediation of Leaks, Spills and Releases*. Santa Fe, New Mexico.
- New Mexico Water Rights Reporting System. (2010). *Water Column/Average Depth to Water Report.* Retrieved from http://nmwrrs.ose.state.nm.us/index.html
- New Mexico Water Rights Reporting System. (2010). *Point of Diversion Location Report*. Retrieved from http://nmwrrs.ose.state.nm.us/index.html
- New Mexico Bureau of Geology and Mineral Resources. (2014-2017). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu
- USDA Natural Resources Conservation Service. (2017) *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs. usda.gov/ app/ WebSoilSurvey.aspx

Limitations

This report has been prepared for the sole benefit of WPX Energy Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and WPX Energy Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

vertex.ca

7223 Empire Central Drive, Houston, Texas 77040, USA | P 832.588.0674

ATTACHMENT 1


Released to Imaging: 8/17/2023 9:01:57 AM

20m 1 (17E-00043)

G Gas

ed.

X17E-00043

ATTACHMENT 2

Spill Assesment

October 2017



Photo 1. Bermed Area where spill occurred

Photo Date: June 30, 2017



Photo 2. Overview of site

Photo Date: June 30, 2017





Spill Assesment October 2017



Photo 3. Bermed Area where spill occurred

Photo Date: June 30, 2017



Photo 4. Bermed Area where spill occurred

Photo Date: June 30, 2017





Spill Assesment October 2017



Photo 6. Background Sample Filled in

GPS: W: 103.974813° Photo Date: August 21, 2017 N: 32.556115°

Project #: 17E-00043

Page 3 of 4





Spill Assesment October 2017







ATTACHMENT 3

NM OIL CONSERVATION

ARTESIA DISTRICT

SAL NO

Form C-141 Revised August 8, 2011

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesla, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

OCT 1 0 2014 Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC. RECEIVED

1220 S. St. Fran	cis Dr., Sant	a Fe, NM 8750	5	Sa	inta Fe	e, NM 875	05			
an tear a suit ann ann ann ann ann ann ann ann ann an			Rel	ease Notific	cation	1 and Co	orrective A	ction		
NARIU	38733	3041				OPERA	ГOR	🛛 In	itial Report	Final Report
Name of Co		RKI E&P, I	LC	24/128	91	Contact	Zack Laird			
Address		k Ave Ste	. 900, OK	C, OK 73102			No. 405-742-20	696		
Facility Nar		ral G Gas Co				Facility Typ	e Oil and Gas	Well		
Surface Ow	ner Feder	al		Mineral C	wner	Federal		API	No. 30-015-	20848
					TION	N OF RE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Lin	e County	
1	21	205	30E		1650 F	SÍ.		1900FEL	Eddy	
<u> </u>				rda 22 5561146			La 102 074913	·	Dudy	
			Latte	ide_32.5561146 NAT		OF RELI		991/81		
Type of Relea	se. Oil an	d Produced W	ater		UILL		Release 15Bbls	Volum	Recovered	48bls
Source of Rel							lour of Occurrenc		d Hour of Dis	
						10/09/14 -		10/09/1	4 - 0900hrs	
Was Immedia	te Notice (Yes 🗌] No 🛛 Not Re	quired	If YES, To	Whom?			
By Whom?						Date and H	our			
Was a Waterc	ourse Read					If YES, Vo	lume Impacting t	he Watercourse,		
			Yes 🛛	. • • •						
If a Watercou	rse was Imj	pacted, Descri	be Fully.	N/A						
		:								
Describe Caus	e of Proble	em and Remed	lial Action	n Taken.*				······································		
					om tank	into seconda	ny containment (e	orthen) A vacu	um truck ivas	used to recover free
liquids and em				Ved I W to leak in	Jill tallk	nijo secolida	y containnent (e.	aimen). A vacu	in nuck was	used to recover nee
Describe Area	Affected a	nd Cleanup A	ction Tak	en,*					<u></u>	
All fluid remai	inad in aart	han tank dika	frag fluid	s were recovered	with you	uum truck				
An nulo rema			, nee nuie	is were recovered	with vat					
						1				
				is true and comple d/or file certain re						
public health o	operators a	onment. The	acceptance	e of a C-141 repor	t by the	NMOCD ma	rked as "Final Re	port" does not re	lieve the oper	ator of liability
should their op	erations ha	ave failed to a	dequately	investigate and re	mediate	contaminatio	n that pose a thre	at to ground wat	er, surface wa	ter, human health
				ance of a C-141 r	eport do	es not relieve	the operator of re	esponsibility for	compliance w	ith any other
federal, state, c	or local law	's and/or regul	ations.							<u></u>
	_	10	,	< mart			OIL CONS	ERVATION	<u>, DIVISIO</u>	₽
Signature:					/	· //				
Desintant Lamas	Zrole Loin	a			A	pproved by E	Environmental Spo	ecialist:		1
Printed Name: Zack Laird										
Title: Sr. EHS	Manager		·····	······································	A	pproval Date	W/0/14	Expiration	Date: 1	4
E-mail Address	s; ZLairdá	arkixp.com			c	onditions of <i>i</i>	Approval:			-
		<u> </u>		F	Remed	liation per	O.C.D. Rules	s & Guidalla	Attached	
Date: 10/09/1	Pate: 10/09/14 Phone: 405-987-2213 SUBMIT REMEDIATION PROPOSAL NO									

LATER THAN:_

* Attach Additional Sheets If Necessary

2RP-2542

ATTACHMENT 4

Received by OCD: 7/26/2023 9:27:22 AM

Daily Field Report



Client: Site Location: Field Consultant: Project Manager:

WPX Federal G Gas Com 001 Robyn Fisher Carl Davison

Date:	August
Shift:	Day
Project #:	17E-00
AFE #:	

August 21, 2017 Day 17E-00043

			Summary of D	aily Operations			
				ugur the proposed	locations.		
	–Hand Au			ld screened and pa		nto jars.	
		–Le	ft site and drov	ve back to Carlsbad	l		
		Planne	ed Activities ar	nd Recommendatio	ons		
	1	No further Planne	ed activities or	Reccommendation	ns at this time.		
			Cost Su	ummary			
			Ve	rtex			
Name	Hours	Rate	Total	Equipment	Units	Rate	Total
obyn Fisher	12.5		\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
		Total:	\$0.00			Total:	\$0.00 \$0.00
		TOLAL	\$0.00			Vertex Total:	\$0.00 \$0.00
			Laborato	rv Analysis		vertex rotal.	30.00
Laboratory Analysis Laboratory Lab Report Estim						Estim	ate
				•			
			Third Pa	rty Service			
Date	Cor	ntractor	Work D	escription	Tic	ket #	Estimate
					Third Pa	rty Service Total:	\$0.00

ATTACHMENT 5



01-Sep-2017

Karolina Blaney WPX Energy 5315 Buena Vista Dr. Carlsbad, NM 88220

Re: Federal G Gas Com #1

Work Order: 17081599

Dear Karolina,

ALS Environmental received 6 samples on 25-Aug-2017 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton Project Manager

Certificate No: MN 998501

Report of Laboratory Analysis

ADDRESS 3352 128th Ave Holland, Michigan 49424 | PHONE (616) 399-6070 | FAX (616) 399-6185 ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

www.alsglobal.com

RIGHT SOLUTIONS BIGHT PARTNER

Enuironmental 🔎

Date: 01-Sep-17

Client:	WPX Energy				
Project:	Federal G Gas Com #1			Work Order S	ample Summary
Work Order:	17081599				
		7.6.1			
<u>Lab Samp ID</u> (<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received Hold
17081599-01 E	3H17-01 (0-2 ft)	Soil		8/21/2017	8/25/2017 09:00
17081599-02 E	3H17-03 (0-2 ft)	Soil		8/21/2017	8/25/2017 09:00
17081599-03 E	3H17-05 (0-2 ft)	Soil		8/21/2017	8/25/2017 09:00
17081599-04 E	3H17-06 (0-2 ft)	Soil		8/21/2017	8/25/2017 09:00
17081599-05 E	3H17-07 (0-2 ft)	Soil		8/21/2017	8/25/2017 09:00
17081599-06 B	3H17-08 (0-2 ft)	Soil		8/21/2017	8/25/2017 09:00

Date: 01-Sep-17

Client: Project: WorkOrder:	WPX Energy Federal G Gas Com #1 17081599	QUALIFIERS, ACRONYMS, UNITS
Qualifier	Description	
*	Value exceeds Regulatory Limit	
**	Estimated Value	
а	Analyte is non-accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
Н	Analyzed outside of Holding Time	
J ND	Analyte is present at an estimated concentration between the MDL and Report Not Detected at the Reporting Limit	ort Limit
0	Sample amount is > 4 times amount spiked	
P	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL	
Х	Analyte was detected in the Method Blank between the MDL and Reporting reagent contamination at the observed level.	Limit, sample results may exhibit background or
Acronym	Description	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
LOD	Limit of Detection (see MDL)	
LOQ	Limit of Quantitation (see PQL)	
MBLK	Method Blank	
MDL	Method Detection Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PQL	Practical Quantitation Limit	
RPD	Relative Percent Difference	
TDL	Target Detection Limit	
TNTC	Too Numerous To Count	
А	APHA Standard Methods	
D	ASTM	
Е	EPA	
SW	SW-846 Update III	
Units Reported	Description	
% of sample	Percent of Sample	
mg/Kg-dry	Milligrams per Kilogram Dry Weight	

•

Date: 01-Sep-17

Client:WPX EnergyProject:Federal G Gas Com #1Sample ID:BH17-01 (0-2 ft)

Collection Date: 8/21/2017

 Work Order:
 17081599

 Lab ID:
 17081599-01

 Matrix:
 SOIL

Concetton Duter of 21/2017								
Analyses	Result	Qual	Report Limit	Units	Dilut Fact		Date Analyzed	
DIESEL RANGE ORGANICS BY GC-FID			SW801	5C	Prep: SW3	546 8/28/17 13:10	Analyst: KB	
DRO (C10-C28)	ND		5.7	mg/Kg∙	-dry	1	8/29/2017 02:56 AM	
ORO (C28-C40)	7.8		5.7	mg/Kg	J-dry	1	8/29/2017 02:56 AM	
Surr: 4-Terphenyl-d14	89.1		34-130	%REC	;	1	8/29/2017 02:56 AM	
GASOLINE RANGE ORGANICS BY GC	-FID		SW801	5D	Prep: SW5	035 8/29/17 08:56	Analyst: KB	
GRO (C6-C10)	ND		6.9	mg/Kg∙	-dry	1	8/30/2017 09:32 AM	
Surr: Toluene-d8	91.0		71-123	%REC	;	1	8/30/2017 09:32 AM	
VOLATILE ORGANIC COMPOUNDS			SW826	0B	Prep: SW5	035 8/29/17 08:56	Analyst: EMR	
Benzene	ND		0.041	mg/Kg∙	-dry	1	8/31/2017 01:41 PM	
Ethylbenzene	ND		0.041	mg/Kg∙	-dry	1	8/31/2017 01:41 PM	
m,p-Xylene	ND		0.083	mg/Kg∙	-dry	1	8/31/2017 01:41 PM	
o-Xylene	ND		0.041	mg/Kg∙	-dry	1	8/31/2017 01:41 PM	
Toluene	ND		0.041	mg/Kg∙	-dry	1	8/31/2017 01:41 PM	
Xylenes, Total	ND		0.12	mg/Kg∙	-dry	1	8/31/2017 01:41 PM	
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	;	1	8/31/2017 01:41 PM	
Surr: 4-Bromofluorobenzene	106		70-130	%REC	;	1	8/31/2017 01:41 PM	
Surr: Dibromofluoromethane	93.0		70-130	%REC	;	1	8/31/2017 01:41 PM	
Surr: Toluene-d8	98.8		70-130	%REC	;	1	8/31/2017 01:41 PM	
CHLORIDE			A4500-	CL E-97	Prep: EXTF	RACT 8/29/17 21:00	Analyst: ED	
Chloride	26		12	mg/Kg	J-dry	1	8/30/2017 02:55 PM	
MOISTURE			SW355	0C			Analyst: NW	
Moisture	16		0.050	% of s	ample	1	8/30/2017 06:15 PM	

Note: See Qualifiers page for a list of qualifiers and their definitions.

Date: 01-Sep-17

Client:	WPX Energy
Project:	Federal G Gas Com #1
Sample ID:	BH17-03 (0-2 ft)

Collection Date: 8/21/2017

Work Order: 17081599 Lab ID: 17081599-02 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Diluti Facto		Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW801	5C	Prep: SW35	46 8/28/17 13:10	Analyst: KB
DRO (C10-C28)	3,200		56	mg/Kg-	-dry	10	8/29/2017 10:39 AM
ORO (C28-C40)	890		56	mg/Kg-	-dry	10	8/29/2017 10:39 AM
Surr: 4-Terphenyl-d14	70.1		34-130	%REC		10	8/29/2017 10:39 AM
GASOLINE RANGE ORGANICS BY GC-	FID		SW801	5D	Prep: SW50	35 8/29/17 08:56	Analyst: KB
GRO (C6-C10)	93		6.8	mg/Kg-	-dry	1	8/30/2017 10:02 AM
Surr: Toluene-d8	108		71-123	%REC		1	8/30/2017 10:02 AM
VOLATILE ORGANIC COMPOUNDS			SW826	0B	Prep: SW50	35 8/29/17 08:56	Analyst: EMR
Benzene	ND		0.041	mg/Kg-	dry	1	8/31/2017 07:27 AM
Ethylbenzene	ND		0.041	mg/Kg-	dry	1	8/31/2017 07:27 AM
m,p-Xylene	ND		0.081	mg/Kg-	dry	1	8/31/2017 07:27 AM
o-Xylene	ND		0.041	mg/Kg-	dry	1	8/31/2017 07:27 AM
Toluene	ND		0.041	mg/Kg-	dry	1	8/31/2017 07:27 AM
Xylenes, Total	ND		0.12	mg/Kg-	dry	1	8/31/2017 07:27 AM
Surr: 1,2-Dichloroethane-d4	111		70-130	%REC		1	8/31/2017 07:27 AM
Surr: 4-Bromofluorobenzene	120		70-130	%REC		1	8/31/2017 07:27 AM
Surr: Dibromofluoromethane	97.9		70-130	%REC		1	8/31/2017 07:27 AM
Surr: Toluene-d8	111		70-130	%REC		1	8/31/2017 07:27 AM
CHLORIDE			A4500-	CL E-97	Prep: EXTR	ACT 8/29/17 21:00	Analyst: ED
Chloride	6,600		120	mg/Kg-	-dry	10	8/30/2017 02:55 PM
MOISTURE			SW355	0C			Analyst: NW
Moisture	15		0.050	% of sa	ample	1	8/30/2017 06:15 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Date: 01-Sep-17

Client:	WPX Energy
Project:	Federal G Gas Com #1
Sample ID:	BH17-05 (0-2 ft)

Collection Date: 8/21/2017

Work Order: 17081599 Lab ID: 17081599-03 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilutio Facto		Date Analyzed
DIESEL RANGE ORGANICS BY GC-I	FID		SW801	5C	Prep: SW35	46 8/28/17 13:10	Analyst: KB
DRO (C10-C28)	5.7		5.7	mg/Kg	-dry	1	8/29/2017 03:54 AM
ORO (C28-C40)	21		5.7	mg/Kg	-dry	1	8/29/2017 03:54 AM
Surr: 4-Terphenyl-d14	89.6		34-130	%REC		1	8/29/2017 03:54 AM
GASOLINE RANGE ORGANICS BY G	GC-FID		SW801	5D	Prep: SW50	35 8/29/17 08:56	Analyst: KB
GRO (C6-C10)	ND		6.4	mg/Kg-	dry	1	8/30/2017 10:31 AM
Surr: Toluene-d8	96.1		71-123	%REC		1	8/30/2017 10:31 AM
VOLATILE ORGANIC COMPOUNDS			SW826	0B	Prep: SW50	35 8/29/17 08:56	Analyst: EMR
Benzene	ND		0.038	mg/Kg-	dry	1	8/31/2017 07:43 AM
Ethylbenzene	ND		0.038	mg/Kg-	dry	1	8/31/2017 07:43 AM
m,p-Xylene	ND		0.076	mg/Kg-	dry	1	8/31/2017 07:43 AM
o-Xylene	ND		0.038	mg/Kg-	dry	1	8/31/2017 07:43 AM
Toluene	ND		0.038	mg/Kg-	dry	1	8/31/2017 07:43 AM
Xylenes, Total	ND		0.11	mg/Kg-	dry	1	8/31/2017 07:43 AM
Surr: 1,2-Dichloroethane-d4	107		70-130	%REC		1	8/31/2017 07:43 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC		1	8/31/2017 07:43 AM
Surr: Dibromofluoromethane	94.4		70-130	%REC		1	8/31/2017 07:43 AM
Surr: Toluene-d8	99.0		70-130	%REC		1	8/31/2017 07:43 AM
CHLORIDE			A4500-	CL E-97	Prep: EXTR	ACT 8/29/17 21:00	Analyst: ED
Chloride	33		11	mg/Kg	-dry	1	8/30/2017 02:55 PM
MOISTURE			SW355	0C			Analyst: NW
Moisture	12		0.050	% of sa	ample	1	8/30/2017 06:15 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Date: 01-Sep-17

Client:	WPX Energy
Project:	Federal G Gas Com #1
Sample ID:	BH17-06 (0-2 ft)

Collection Date: 8/21/2017

Work Order: 17081599 Lab ID: 17081599-04 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units Dilution Factor			Date Analyze				
DIESEL RANGE ORGANICS BY GC	-FID		SW801			3546 8/28/17 13:10	Analyst: KB				
DRO (C10-C28)	ND		5.7	mg/Kg-	-dry	1	8/29/2017 04:52 AM				
ORO (C28-C40)	15		5.7	mg/Kg	-dry	1	8/29/2017 04:52 AM				
Surr: 4-Terphenyl-d14	88.1		34-130	%REC		1	8/29/2017 04:52 AM				
GASOLINE RANGE ORGANICS BY	GC-FID		SW801	5D	Prep: SW	5035 8/29/17 08:56	Analyst: KB				
GRO (C6-C10)	ND		6.8	mg/Kg-	-dry	1	8/30/2017 11:01 AM				
Surr: Toluene-d8	95.8		71-123	%REC		1	8/30/2017 11:01 AM				
VOLATILE ORGANIC COMPOUNDS	6		SW826	0B	Prep: SW	5035 8/29/17 08:56	Analyst: WH				
Benzene	ND		0.041	mg/Kg-	-dry	1	8/31/2017 04:59 AM				
Ethylbenzene	ND		0.041	mg/Kg-	-dry	1	8/31/2017 04:59 AM				
m,p-Xylene	ND		0.081	mg/Kg-	-dry	1	8/31/2017 04:59 AM				
o-Xylene	ND		0.041	mg/Kg-	-dry	1	8/31/2017 04:59 AM				
Toluene	ND		0.041	mg/Kg-	-dry	1	8/31/2017 04:59 AM				
Xylenes, Total	ND		0.12	mg/Kg-	dry	1	8/31/2017 04:59 AM				
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC		1	8/31/2017 04:59 AM				
Surr: 4-Bromofluorobenzene	96.3		70-130	%REC		1	8/31/2017 04:59 AM				
Surr: Dibromofluoromethane	92.2		70-130	%REC		1	8/31/2017 04:59 AM				
Surr: Toluene-d8	95.9		70-130	%REC		1	8/31/2017 04:59 AM				
CHLORIDE			A4500-	CL E-97	Prep: EXT	RACT 8/29/17 21:00	Analyst: ED				
Chloride	14		12	mg/Kg	-dry	1	8/30/2017 02:55 PM				
MOISTURE			SW355	0C			Analyst: NW				
Moisture	15		0.050	% of sa	ample	1	8/30/2017 06:15 PM				

Note: See Qualifiers page for a list of qualifiers and their definitions.

Date: 01-Sep-17

Client:	WPX Energy
Project:	Federal G Gas Com #1
Sample ID:	BH17-07 (0-2 ft)

Collection Date: 8/21/2017

Work Order: 17081599 Lab ID: 17081599-05 Matrix: SOIL

Analyses	Result	Qual	Report Limit	TT •4		on or	Date Analyzed		
DIESEL RANGE ORGANICS BY GC-FID			SW801	5C	Prep: SW3	546 8/28/17 13:10	Analyst: KB		
DRO (C10-C28)	13		5.8	mg/Kg	-dry	1	8/29/2017 05:21 AM		
ORO (C28-C40)	16		5.8	mg/Kg	-dry	1	8/29/2017 05:21 AM		
Surr: 4-Terphenyl-d14	90.1		34-130	%REC		1	8/29/2017 05:21 AM		
GASOLINE RANGE ORGANICS BY GC-	FID		SW801	5D	Prep: SW5	035 8/29/17 08:56	Analyst: KB		
GRO (C6-C10)	ND		6.9	mg/Kg-	dry	1	8/30/2017 11:30 AM		
Surr: Toluene-d8	97.8		71-123	%REC		1	8/30/2017 11:30 AM		
VOLATILE ORGANIC COMPOUNDS			SW826	0B	Prep: SW5	035 8/29/17 08:56	Analyst: EMR		
Benzene	ND		0.041	mg/Kg-	dry	1	8/31/2017 07:59 AM		
Ethylbenzene	ND		0.041	mg/Kg-	dry	1	8/31/2017 07:59 AM		
m,p-Xylene	ND		0.083	mg/Kg-	dry	1	8/31/2017 07:59 AM		
o-Xylene	ND		0.041	mg/Kg-	dry	1	8/31/2017 07:59 AM		
Toluene	ND		0.041	mg/Kg-	dry	1	8/31/2017 07:59 AM		
Xylenes, Total	ND		0.12	mg/Kg-	dry	1	8/31/2017 07:59 AM		
Surr: 1,2-Dichloroethane-d4	106		70-130	%REC		1	8/31/2017 07:59 AM		
Surr: 4-Bromofluorobenzene	104		70-130	%REC		1	8/31/2017 07:59 AM		
Surr: Dibromofluoromethane	96.0		70-130	%REC		1	8/31/2017 07:59 AM		
Surr: Toluene-d8	102		70-130	%REC		1	8/31/2017 07:59 AM		
CHLORIDE			A4500-	CL E-97	Prep: EXTF	RACT 8/29/17 21:00	Analyst: ED		
Chloride	ND		12	mg/Kg-	dry	1	8/30/2017 02:55 PM		
MOISTURE			SW355	0C			Analyst: NW		
Moisture	16		0.050	% of sa	ample	1	8/30/2017 06:15 PM		

Note: See Qualifiers page for a list of qualifiers and their definitions.

Date: 01-Sep-17

Client:	WPX Energy
Project:	Federal G Gas Com #1
Sample ID:	BH17-08 (0-2 ft)

Collection Date: 8/21/2017

Work Order: 17081599 Lab ID: 17081599-06 Matrix: SOIL

		-						
Result	Qual	Report Limit	Units			Date Analyzed		
D		SW8015C		Prep: SW	3546 8/28/17 13:10	Analyst: KB		
8.1		6.1	mg/Kg	-dry	1	8/29/2017 05:50 AM		
9.0		6.1	mg/Kg	-dry	1	8/29/2017 05:50 AM		
77.1		34-130	%REC		1	8/29/2017 05:50 AM		
C-FID		SW801	5D	Prep: SW	5035 8/29/17 08:56	Analyst: KB		
ND		7.5	mg/Kg∙	-dry	1	8/30/2017 12:00 PM		
96.2		71-123	%REC		1	8/30/2017 12:00 PM		
		SW826	0B	Prep: SW	5035 8/29/17 08:56	Analyst: EMR		
ND		0.045	mg/Kg-	-dry	1	8/31/2017 08:15 AM		
ND		0.045	mg/Kg-	-dry	1	8/31/2017 08:15 AM		
ND		0.090	mg/Kg-	-dry	1	8/31/2017 08:15 AM		
ND		0.045	mg/Kg-	-dry	1	8/31/2017 08:15 AM		
ND		0.045	mg/Kg-	-dry	1	8/31/2017 08:15 AM		
ND		0.14	mg/Kg-	-dry	1	8/31/2017 08:15 AM		
106		70-130	%REC		1	8/31/2017 08:15 AM		
103		70-130	%REC		1	8/31/2017 08:15 AM		
96.4		70-130	%REC		1	8/31/2017 08:15 AM		
102		70-130	%REC		1	8/31/2017 08:15 AM		
		A4500-	CL E-97	Prep: EXT	RACT 8/29/17 21:00	Analyst: ED		
130		12	mg/Kg	-dry	1	8/30/2017 02:55 PM		
		SW355	0C			Analyst: NW		
20		0.050	% of s	ample	1	8/30/2017 06:15 PM		
	D 8.1 9.0 77.1 C-FID ND 96.2 ND ND ND ND ND 106 103 96.4 102 130	D 8.1 9.0 77.1 C-FID ND 96.2 ND ND ND ND ND ND ND 106 103 96.4 102 130	Result Qual Limit D SW801 8.1 6.1 9.0 6.1 77.1 34-130 C-FID SW801 ND 7.5 96.2 71-123 SW826 ND ND 0.045 ND 0.045 ND 0.045 ND 0.045 ND 0.045 ND 0.14 106 70-130 96.4 70-130 96.4 70-130 96.4 70-130 102 70-130 130 12 SW355 SW355	Result Qual Limit Units D SW8015C 8.1 6.1 mg/Kg 9.0 6.1 mg/Kg 77.1 34-130 %REC C-FID SW8015D ND 7.5 mg/Kg 96.2 71-123 %REC SW8260B ND 0.045 mg/Kg ND 0.045 mg/Kg ND 0.045 mg/Kg ND 0.045 mg/Kg ND 0.14 mg/Kg ND 0.14 mg/Kg ND 0.14 mg/Kg ND 0.14 mg/Kg 106 70-130 %REC 96.4 70-130 %REC 96.4 70-130 %REC 102 70-130 %REC 103 70-130 %REC 96.4 70-130 %REC 102 70-130 %REC	Result Qual Limit Units Fac D SW8015C Prep: SW3 8.1 6.1 mg/Kg-dry 9.0 6.1 mg/Kg-dry 77.1 34-130 %REC C-FID SW8015D Prep: SW3 ND 7.5 mg/Kg-dry 96.2 71-123 %REC SW8260B Prep: SW3 ND 0.045 mg/Kg-dry ND 0.14 mg/Kg-dry ND 0.14 mg/Kg-dry 106 70-130 %REC 96.4 70-130 %REC 96.4 70-130 %REC 102 70-130 %REC 130 12 mg/Kg-dry	Result Qual Limit Units Factor D SW8015C Prep: SW3546 8/28/17 13:10 8.1 6.1 mg/Kg-dry 1 9.0 6.1 mg/Kg-dry 1 77.1 34-130 %REC 1 C-FID SW8015D Prep: SW5035 8/29/17 ND 7.5 mg/Kg-dry 1 96.2 71-123 %REC 1 SW8260B Prep: SW5035 8/29/17 08:56 ND 0.045 mg/Kg-dry 1 ND 0.14 mg/Kg-dry 1 ND 0.14 mg/Kg-dry 1 ND 0.14 mg/Kg-dry 1 106 70-130 %REC 1 102 </td		

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	WPX Energy
Work Order:	17081599
Project:	Federal G Gas Com #1

Date: 01-Sep-17

QC BATCH REPORT

Batch ID: 106524	Instrument ID GC	8		Metho	d: SW80 ′	15C	;					
MBLK	Sample ID: DBLKS1-10	6524-106	524			ļ	Units: mg/l	Kg	Analys	is Date: 8	28/2017 0	6:14 PM
Client ID:		Run ID	: GC8_1	70828A		Se	eqNo: 460 9	024	Prep Date: 8/2	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)		ND	5.0									
ORO (C28-C40)		ND	5.0									
Surr: 4-Terpheny	·l-d14	2.817	0	3.33		0	84.6	34-130	0			
LCS	Sample ID: DLCSS1-10	6524-106	524			ļ	Units: mg/l	Kg	Analys	28/2017 0	6:43 PM	
Client ID:		Run ID	GC8_1	70828A		Se	eqNo: 460 9	025	Prep Date: 8/2	8/2017	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)		315.4	5.0	333		0	94.7	65-122	0			
ORO (C28-C40)		349.8	5.0	333		0	105	81-116	0			
Surr: 4-Terpheny	l-d14	2.9	0	3.33		0	87.1	34-130	0			
MS	Sample ID: 17081512-0	1D MS				I	Units: mg/l	Kg	Analys	is Date: 8	28/2017 0	7:12 PM
Client ID:		Run ID	GC8_1	70828A		Se	eqNo: 460 9	026	Prep Date: 8/2	8/2017	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)		307	5.0	332.5	0.13	13	92.3	65-122	0			
ORO (C28-C40)		367.2	5.0	332.5	6.6	29	108	81-116	0			
Surr: 4-Terpheny	·l-d14	2.963	0	3.325		0	89.1	34-130	0			
MSD	Sample ID: 17081512-0	1D MSD				ļ	Units: mg/l	Kg	Analys	is Date: 8	28/2017 0	7:41 PM
Client ID:		Run ID	: GC8_1	70828A		Se	eqNo: 460 9	9027	Prep Date: 8/2	8/2017	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)		332.3	4.9	327.1	0.13	13	102	65-122	307	7.9	30	
ORO (C28-C40)		386.9	4.9	327.1	6.6		116	81-116				S
Surr: 4-Terpheny	<i>l-d14</i>	2.964	0	3.271		0	90.6	34-130	2.963	0.0338	30	
The following sam	ples were analyzed in thi	s batch:	01	7081599-	02 1	2B	1599- 1599-	03	081599-			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:	WPX Energy
Work Order:	17081599
Project:	Federal G Gas Com #1

Batch ID: 106600	Instrument ID GC	9		Metho	d: SW80 1	I5D							
MBLK	Sample ID: MBLK-1066	600-106600				U	Inits: µg/ŀ	(g-dry	A	nalysi	s Date:	8/30/2017 (04:39 AM
Client ID:		Run ID:	GC9_1	70829C		Se	qNo: 461 ;	3383	Prep Date	: 8/29	/2017	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD R Value		%RPD	RPD Limit	Qual
GRO (C6-C10)		ND	5,000										
Surr: Toluene-d8		5008	0	5000		0	100	71-123		0			
LCS	Sample ID: LCS-10660	0-106600				U	Inits: µg/ŀ	(g-dry	A	nalysi	s Date:	8/30/2017 (03:40 AM
Client ID:		Run ID:	GC9_1	70829C		Se	qNo: 461 ;	3382	Prep Date	: 8/29	/2017	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD R Value		%RPD	RPD Limit	Qual
GRO (C6-C10)	Ę	513000	5,000	500000		0	103	71-123		0			
Surr: Toluene-d8		4996	0	5000		0	99.9	71-123		0			
MS	Sample ID: 17081512-0	1C MS				U	Inits: µg/ŀ	(g-dry	A	nalysi	s Date:	8/30/2017 1	12:59 PM
MS Client ID:	Sample ID: 17081512-0		GC9_1	70829C			lnits: µg/ŀ qNo: 461 :		A Prep Date			8/30/2017 1 DF: 1	12:59 PM
	Sample ID: 17081512-0		GC9_1 PQL	70829C SPK Val	SPK Ref Value	Se				: 8/29 ef			12:59 PM Qual
Client ID:	·	Run ID:				Se	qNo: 461 :	3409 Control	Prep Date RPD R	: 8/29 ef	/2017	DF: 1 RPD	
Client ID: Analyte	·	Run ID: Result	PQL	SPK Val		Se	qNo: 461 : %REC	3409 Control Limit	Prep Date RPD R	: 8/29 ef	/2017	DF: 1 RPD	
Client ID: Analyte GRO (C6-C10)	·	Run ID: Result 732300 7640	PQL 7,200	SPK Val 679300		Sec 0 0	qNo: 461 : %REC 108	3409 Control Limit 71-123 71-123	Prep Date RPD R Value	: 8/29 ef 0 0	/ 2017 %RPD	DF: 1 RPD	Qual
Client ID: Analyte GRO (C6-C10) Surr: Toluene-d8	7	Run ID: Result 732300 7640	PQL 7,200	SPK Val 679300 6793		Sec 0 0	9No: 461 %REC 108 112	Control Limit 71-123 71-123 (g-dry	Prep Date RPD R Value	: 8/29 ef 0 0 0	/2017 %RPD s Date: 4	DF: 1 RPD Limit	Qual
Client ID: Analyte GRO (C6-C10) <i>Surr: Toluene-d8</i> MSD	7	Run ID: Result 732300 7640	PQL 7,200 0	SPK Val 679300 6793		Sec 0 0 U Sec	qNo: 461 %REC 108 112	Control Limit 71-123 71-123 (g-dry	Prep Date RPD R Value	: 8/29 ef 0 0 : nalysi: : 8/29 ef	/2017 %RPD s Date: 4	DF: 1 RPD Limit	Qual
Client ID: Analyte GRO (C6-C10) <i>Surr: Toluene-d8</i> MSD Client ID:	7 Sample ID: 17081512-0	Run ID: Result 732300 7640 IIC MSD Run ID:	PQL 7,200 0 GC9_1	SPK Val 679300 6793 70829C	Value SPK Ref	Sec 0 0 U Sec	qNo: 461 %REC 108 112 Inits: μ g/μ qNo: 461	Control Limit 71-123 71-123 3410 Control	Prep Date RPD R Value A Prep Date RPD R Value	: 8/29 ef 0 0 : nalysi: : 8/29 ef	/2017 %RPD s Date: 4 /2017	DF: 1 RPD Limit 8/30/2017 (DF: 1 RPD Limit	Qual 01:29 PM
Client ID: Analyte GRO (C6-C10) <i>Surr: Toluene-d8</i> MSD Client ID: Analyte	7 Sample ID: 17081512-0	Run ID: Result 732300 7640 IC MSD Run ID: Result	PQL 7,200 0 GC9_1 PQL	SPK Val 679300 6793 70829C SPK Val	Value SPK Ref	0 0 U See	qNo: 461 %REC 108 112 Inits: μg/μ qNo: 461 %REC	Control Limit 71-123 71-123 3410 Control Limit	Prep Date RPD R Value A Prep Date RPD R Value 73	: 8/29 ef 0 0 : 8/29 ef	/2017 %RPD s Date: 4 /2017 %RPD	DF: 1 RPD Limit B/30/2017 (DF: 1 RPD Limit 6 30	Qual 01:29 PM

05A

17081599-

17081599-

04A

06A

17081599-

Received by OCD: 7/26/2023 9:27:22 AM

Client:	WPX Energy
Work Order:	17081599
Project:	Federal G Gas Com #1

QC BATCH REPORT

Batch ID: 106599 Instrument ID VMS7

MBLK	K Sample ID: MBLK-106599-106599								Analysis Da	ate:	8/29/2017	12:35 PM
Client ID:		Run ID	SeqNo: 4610280 Prep D			e: 8/29/20	17	DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD I Valu		RPD	RPD Limit	Qual
Benzene		ND	30									
Ethylbenzene		ND	30									
m,p-Xylene		ND	60									
o-Xylene		ND	30									
Toluene		ND	30									
Xylenes, Total		ND	90									
Surr: 1,2-Dichloroetl	hane-d4	1028	0	1000		0 103	70-130		0			
Surr: 4-Bromofluoro	benzene	964.5	0	1000		0 96.4	70-130		0			
Surr: Dibromofluoroi	methane	975.5	0	1000		0 97.6	70-130		0			
Surr: Toluene-d8		992	0	1000		0 99.2	70-130		0			

Method: SW8260B

LCS	Sample ID: LCS-106599-106599							(g-dry	Analysis Date:			8/29/2017 11:32 AM	
Client ID:		Run ID:	VMS7_	170829A		Se	qNo: 4610	0279	Prep Date	: 8/29	9/2017	DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD R Value		%RPD	RPD Limit	Qual
Benzene		1048	30	1000		0	105	75-125		0			
Ethylbenzene		962	30	1000		0	96.2	75-125		0			
m,p-Xylene		1970	60	2000		0	98.5	80-125		0			
o-Xylene		986	30	1000		0	98.6	75-125		0			
Toluene		969.5	30	1000		0	97	70-125		0			
Xylenes, Total		2956	90	3000		0	98.5	75-125		0			
Surr: 1,2-Dichloroeth	nane-d4	1048	0	1000		0	105	70-130		0			
Surr: 4-Bromofluorol	benzene	970	0	1000		0	97	70-130		0			
Surr: Dibromofluoroi	methane	1048	0	1000		0	105	70-130		0			
Surr: Toluene-d8		978	0	1000		0	97.8	70-130		0			

MS Sample ID	: 17081599-04A MS				ι	Jnits: µg/k	(g-dry	Analy	sis Date:	8/31/2017 0	9:33 AM
Client ID: BH17-06 (0-2 ft)	Run I	D: VMS7_	170830B		Se	qNo: 461	5109	Prep Date: 8/2	29/2017	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1431	41	1353		0	106	75-125		D		
Ethylbenzene	1352	41	1353		0	99.9	75-125		0		
m,p-Xylene	2794	81	2706		0	103	80-125		0		
o-Xylene	1410	41	1353		0	104	75-125		0		
Toluene	1319	41	1353		0	97.5	70-125		0		
Xylenes, Total	4204	120	4059		0	104	75-125		0		
Surr: 1,2-Dichloroethane-d4	1406	0	1353		0	104	70-130		0		
Surr: 4-Bromofluorobenzene	1318	0	1353		0	97.4	70-130		0		
Surr: Dibromofluoromethane	1336	0	1353		0	98.8	70-130		0		
Surr: Toluene-d8	1312	0	1353		0	97	70-130		0		

Note:

See Qualifiers Page for a list of Qualifiers and their explanation.

Client:WPX EnergyWork Order:17081599Project:Federal G Gas Com #1

Batch ID: 106599

Instrument ID VMS7

Method: SW8260B

MSD	Sample ID: 17081599-	04A MSD				ι	Jnits: µg/ዞ	(g-dry	Analys	sis Date: 8/	31/2017 0	9:54 AM
Client ID: BH17-06 (0-2 ft)	Run ID	VMS7_	170830B		Se	qNo: 461	5110	Prep Date: 8/2	9/2017	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Re Value	f	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene		1436	41	1353		0	106	75-125	1431	0.33	30	
Ethylbenzene		1312	41	1353		0	97	75-125	1352	2.95	30	
m,p-Xylene		2740	81	2706		0	101	80-125	2794	1.98	30	
o-Xylene		1398	41	1353		0	103	75-125	1410	0.819	30	
Toluene		1333	41	1353		0	98.6	70-125	1319	1.07	30	
Xylenes, Total		4138	120	4059		0	102	75-125	4204	1.59	30	
Surr: 1,2-Dichloroe	ethane-d4	1406	0	1353		0	104	70-130	1406	0	30	
Surr: 4-Bromofluor	robenzene	1360	0	1353		0	101	70-130	1318	3.13	30	
Surr: Dibromofluor	omethane	1363	0	1353		0	101	70-130	1336	2.01	30	
Surr: Toluene-d8		1350	0	1353		0	99.8	70-130	1312	2.9	30	
The following samp	les were analyzed in th	is batch:	17	7081599-		7081	599-	170)81599-			

17081599-	17081599-	17081599-	
01A	02A	03A	
17081599-	17081599-	17081599-	
04A	05A	06A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:	WPX Energy
Work Order:	17081599
Project:	Federal G Gas Com #1

Project:	Federal G Gas Com #1											
Batch ID: 106719	Instrument ID GALLER	RY		Metho	d: A4500)-CI	E-97					
MBLK	Sample ID: MBLK-106719-1	06719					Units: mg/k	۲g	Analys	is Date: 8/	30/2017 0	2:55 PM
Client ID:	R	Run ID:	GALLE	RY_170830	с	S	eqNo: 4613	631	Prep Date: 8/2	9/2017	DF: 1	
Analyte	Rest	ult	PQL	SPK Val	SPK Ref Value	:	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	Ν	I D	10									
MS	Sample ID: 17081490-01A N	IS					Units: mg/k	۲g	Analys	is Date: 8/	30/2017 0	2:55 PM
Client ID:	R	Run ID:	GALLE	RY_170830	С	S	eqNo: 4613	634	Prep Date: 8/2	9/2017	DF: 1	
Analyte	Resi	ult	PQL	SPK Val	SPK Ref Value	:	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	485	5.9	10	498	3.5	647	96.8	75-125	0			
MSD	Sample ID: 17081490-01A N	ISD					Units: mg/k	۲g	Analys	is Date: 8/	30/2017 0	2:55 PM
Client ID:	R	Run ID:	GALLE	RY_170830	С	S	eqNo: 4613	635	Prep Date: 8/2	9/2017	DF: 1	
Analyte	Resi	ult	PQL	SPK Val	SPK Ref Value	:	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	498	8.6	10	498	3.5	47	99.4	75-125	485.9	2.59	25	
LCS1	Sample ID: LCS1-106719-10	06719					Units: mg/k	٢g	Analys	is Date: 8/	30/2017 0	2:55 PM
Client ID:	R	Run ID:	GALLE	RY_170830	С	S	eqNo: 4613	647	Prep Date: 8/2	9/2017	DF: 1	
Analyte	Rest	ult	PQL	SPK Val	SPK Ref Value	:	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	100).1	10	100		0	100	80-120	0			
LCS2	Sample ID: LCS2-106719-10	06719					Units: mg/k	۲g	Analys	is Date: 8/	30/2017 0	2:55 PM
Client ID:	R	Run ID:	GALLE	RY_170830	С	S	eqNo: 4613	648	Prep Date: 8/2	9/2017	DF: 1	
Analyte	Resi	ult	PQL	SPK Val	SPK Ref Value	:	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	478	3.4	10	500		0	95.7	80-120	0			
	nlos woro analyzod in this bat	hah i	17	081500	1	700	81500	17	081500-			

The following samples were analyzed in this batch:

 atch:
 17081599 17081599 17081599

 01B
 02B
 03B

 17081599 17081599 17081599

 04B
 05B
 06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:	WPX Energy
Work Order:	17081599
Project:	Federal G Gas Com #1

Batch ID: R219046	Instrument ID MOIS	бт		Metho	d: SW358	50C								
MBLK	Sample ID: WBLKS-R21	9046				Uni	its: % o	f sample		Analys	is Date:	8/30/20	17 00	6:15 PM
Client ID:		Run ID	MOIST	_170830B		SeqN	lo: 461	4937	Prep D	Date:		DF	: 1	
Analyte	F	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit		D Ref alue	%RPE	RPD Limi		Qual
Moisture		ND	0.050											
LCS	Sample ID: LCS-R21904	6				Uni	its: % o	f sample		Analys	is Date:	8/30/20	17 00	6:15 PM
Client ID:		Run ID	MOIST	_170830B		SeqN	lo: 461	4936	Prep D	Date:		DF	: 1	
Analyte	F	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit		D Ref alue	%RPE	RPD Limi		Qual
Moisture		100	0.050	100		0	100	99.5-100.	.5	0				
DUP	Sample ID: 17081629-01	B DUP				Uni	its: % o	f sample		Analysi	s Date:	8/30/20	17 00	6:15 PM
Client ID:		Run ID	MOIST	_170830B		SeqN	lo: 461	4928	Prep D	Date:		DF	: 1	
Analyte	F	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit		D Ref alue	%RPI	RPD Limi		Qual
Moisture		14.61	0.050	0		0	0	0-0		13.21	1().1	5	R
DUP	Sample ID: 17081629-02	B DUP				Uni	its: % o	f sample		Analys	is Date:	8/30/20	17 00	6:15 PM
Client ID:		Run ID	MOIST	_170830B		SeqN	lo: 461	4930	Prep D	Date:		DF	: 1	
Analyte	F	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit		D Ref alue	%RPI	RPD Limi		Qual
Moisture		16.09	0.050	0		0	0	0-0		14.39	11	.2	5	R
The following samp	oles were analyzed in this	batch:	0 1	7081599- 1B 7081599-	02	708159 2B 708159		03	081599 B 081599					

05B

06B

04B

	ALS Laboratory Group HOLLAND, Michigan 48424	Chain-of-Custody								WORKORDE																
(ALS)	- /8-1	SAM	PLER					al sti		<u>_</u> D	\T E		24/	08/20	17			1 8 Y	PAC	Æ	1		of		1	
PROJECT NAME	Federal G Gas Com #1	S	TE ID Fed	aral G Gas Con	n#1				URN	ÂROL	ÍŇD		£	i days		_	ļ	D	SPO Š	E	By Lab	or	Ret	um to	Clier	nt
PROJECT No.	17E-00043	S EDD FOR	RMAT	in an	। ([] उ.										·									'		
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ADORESS		ADD	RESS 531	5 Buena Vista [n		· · · · ·																			
CITY/STATE/ZP			ZIP Carl	sbad, NM 8822								:														
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EAS			FAX	يند <u>لاير ال</u> ه	مر يم		· · · ·	GR0+		_																
E-NAL	Karolina.blaney@wpxenergy.com; james.raley@wpxenergy.com	Ē	Karo Jam	blina.blanev@w es.Ralev@wpx	pxenerg energy (<u>y.com;</u> xom		DRO + G	BTEX	Chloride	· _						~ .							1	· • •	
Lab jĎ	Field ID	Matrix	Bample Date	· · · ·	Boulet	Pres;	ąc.					Marke Market V and a						· · · ·		, ,e						
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l	BH17-01 (0-2 ft)	S	21/08/201	7	. 3		×	×	×	×				Ļ				_		_		+				_
2	BH17-03 (0-2 ft)	S	21/08/201	7	3		x	x	x	x	- 1. 					ļ	•									
3	BH17-05 (0-2 ft)	S	21/08/201	7.	3		x	x	X	×														er an		
Ч	BH17-08 (0-2 ft)	S	21/08/201	7	Э		×	×	x	×																Π
			21/08/201		3		×	X .	X	x	- (m)	e		╎				-1				+	18-11 - 1 1		54	1976
<u> </u>	BH17-07 (0-2 ft)							+				<u></u>							-		<u> </u>	+				
6	BH17-08 (0-2 ft)	S	21/08/201	1.	3	-	X	X .	X	X			<u>) a</u>									+	H		+	
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"Time Zone (Circle): EST CST MST PST Matric: O = oil S = soil NS = non-soil scilid W = wetter L = Squid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:			OC PACH	AGE (check below)
			X	LEVEL II (Standard QC)
		\sim /		LEVEL III (Bid QC + forms)
		(\odot)	<u>N</u>	LEVEL IV (Std QC + forms + rew data)
Preservative Key: 1-HCl	2-HN03 3-H2SO4	4 NaOH 5-NaHSO4 7-OU	ner 6-4	degraes C 9-5035

H.	SIGNATURE .	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Handing Blancy	Karolina Blaney	24/08/2017	15:00
RECEIVED BY		Diane F Sher	8/25/17	0900
RELINQUISHED BY				
RECEIVED BY				10
RELINQUISHED BY			1	
RECEIVED BY			<u> </u>	·

i : 57.6 $\sim -$

Sample Receipt Checklist

Client Name: WPX - NM		Date/Time F	Received:	25-Aug-17	09:00
Work Order: 17081599		Received by	y:	<u>DS</u>	
Checklist completed by Diane Shaw eSignature	25-Aug-17 Date	Reviewed by:	Chad Whe eSignature	lton	25-Aug-17 Date
Matrices: <u>Soil</u> Carrier name: <u>FedEx</u>					I
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Prese	nt 🗌	
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Prese	nt 🔽	
Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Prese	nt 🔽	
Chain of custody present?	Yes 🗸	No			
Chain of custody signed when relinquished and received?	Yes 🗸	No			
Chain of custody agrees with sample labels?	Yes 🔽	No			
Samples in proper container/bottle?	Yes 🗸	No			
Sample containers intact?	Yes 🗸	No			
Sufficient sample volume for indicated test?	Yes 🗸	No			
All samples received within holding time?	Yes 🗸	No 🗌			
Container/Temp Blank temperature in compliance?	Yes 🗸	No			
Sample(s) received on ice? Temperature(s)/Thermometer(s):	Yes ✔ <u>5.2/5.2 c</u>	No	SR2)	
Cooler(s)/Kit(s):					
Date/Time sample(s) sent to storage:	8/25/2017	10:24:17 AM			_
Water - VOA vials have zero headspace?	Yes	No	No VOA vials	submitted	\checkmark
Water - pH acceptable upon receipt?	Yes 🗌	No 🗌	N/A		
pH adjusted? pH adjusted by:	Yes 🗌	No	N/A		

Login Notes:

Client Contacted:	Date Contacted:	Person Contacted:	
Contacted By:	Regarding:		
Comments:			
CorrectiveAction:			
			SRC Page 1 of 1
			Site age for i



APPENDIX D

LT Environmental, Inc Data



P:\WPX\GIS\MXD\034818011_FEDERAL G GAS COM #1\034818011_FIG02_DELINEATION SS_2542.mx



Released to Imaging: 8/17/2023 9:01:57 AM

P:\WPX\GIS\MXD\034818011_FEDERAL G GAS COM #1\034818011_FIG03_EXCAVATION SS_2542_2019.mx

TABLE 1SOIL ANALYTICAL RESULTS

FEDERAL G GAS COM #1							
REMEDIATION PERMIT NUMBER 2RP-2542							
EDDY COUNTY, NEW MEXICO							
WPX ENERGY, INC.							

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Sum of GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
On-Pad Site Soil Samples													
SS01	0.5	10/12/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	18.3	<15.0	18.3	18.3	<4.98
SS01	1	10/12/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	60.4
SS02	0.5	10/12/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	136	<15.0	136	136	1,430
SS02	1	10/12/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	120	<15.0	120	120	1,130
SS03	1	10/12/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	379	1,260	32.0	1,640	1,670	54.6
SS03	1.5	10/12/2018	0.00201	<0.00201	0.00687	0.0131	0.0220	77.8	1,220	49.0	1,300	1,350	<24.8
SS04	1	10/12/2018	0.266	1.90	3.49	28.2	33.8	1,040	1,460	39.7	2,500	2,540	49.0
SS04	1.5	10/12/2018	<0.202	0.580	2.59	16.6	19.8	1,060	1,890	38.2	2,950	2,990	230
SS05	0.5	10/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	46.3	<15.0	46.3	46.3	729
SS05	1	10/12/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	289	25.0	289	314	660
SS06	0.5	10/12/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	84.4	<15.0	84.4	84.4	342
SS06	1	10/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	639
SS07	0.5	10/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	213
SS07	1	10/12/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	118
FS01	2	01/30/2019	0.328	9.29	6.46	30.0	46.0	2,000	2,710	211	4,710	4,920	14.5
FS02	2	01/30/2019	0.0957	0.0557	0.202	0.557	0.729	68.7	392	30.3	461	491	305
FS03	3	01/30/2019	0.0307	0.718	0.0767	2.98	3.81	181	772	83.1	953	1,040	51.2
FS04	3.5	01/30/2019	1.81	28.6	14.9	107	152	3,230	2,410	161	5,640	5,800	82.7
FS05	2	01/30/2019	0.0920	3.18	0.310	22.5	26.1	747	956	69.0	1,700	1,770	220
SW01	0-2	01/30/2019	<0.00200	<0.00200	<0.00200	0.00717	0.00717	<14.9	64.8	<14.9	64.8	64.8	383
SW02	0-3	01/30/2019	0.0308	1.06	0.998	5.77	7.86	359	1,180	122	1,540	1,660	32.2
SW03	0-3.5	01/30/2019	0.0494	2.25	0.328	9.43	12.1	500	897	69.4	1,400	1,470	342
NMOCD Table 1 Closure Criteria		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000	

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics NMAC - New Mexico Administrative Code NMOCD - New Mexico Oil Conservation Division NE - not established TPH - total petroleum hydrocarbons Table 1 - Closure Criteria for Soils Impacted by a Release per NMAC 19.15.29 August 2018 < - indicates result is below laboratory detection limit Bold indicates result exceeds the applicable regulatory standard



for LT Environmental, Inc.

Project Manager: Adrian Baker

Federal G Gas Com 1

24-OCT-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



24-OCT-18

Project Manager: **Adrian Baker LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 602356 Federal G Gas Com 1 Project Address: Eddy, NM 2RP-2542

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 602356. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 602356 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jession Vermer

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Page 2 of 44



Sample Cross Reference 602356



LT Environmental, Inc., Arvada, CO

Federal G Gas Com 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	10-12-18 09:55	6 In	602356-001
SS01	S	10-12-18 10:00	12 In	602356-002
SS02	S	10-12-18 10:10	6 In	602356-003
SS02	S	10-12-18 10:20	12 In	602356-004
SS03	S	10-12-18 10:50	12 In	602356-005
SS04	S	10-12-18 11:10	12 In	602356-006
SS05	S	10-12-18 11:20	6 In	602356-007
SS05	S	10-12-18 11:25	12 In	602356-008
SS06	S	10-12-18 12:05	6 In	602356-009
SS06	S	10-12-18 12:10	12 In	602356-010
SS07	S	10-12-18 12:20	6 In	602356-011
SS07	S	10-12-18 12:25	12 In	602356-012
SS03	S	10-12-18 13:30	18 In	602356-013
SS04	S	10-12-18 13:35	18 In	602356-014

Version: 1.%



CASE NARRATIVE

Page 72 of 521

Client Name: LT Environmental, Inc. Project Name: Federal G Gas Com 1

Project ID: Work Order Number(s): 602356 Report Date: 24-*OCT-18* Date Received: 10/13/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3066834 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3066898 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 602356-005.

Batch: LBA-3067217 BTEX by EPA 8021B Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 602356-006. Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3067221 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above OC limits. Matrix interferences is suspected

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 602356-014.

Batch: LBA-3067371 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.




Project Id: Contact: A

Contact:Adrian BakerProject Location:Eddy, NM 2RP-2542

Certificate of Analysis Summary 602356

LT Environmental, Inc., Arvada, CO Project Name: Federal G Gas Com 1



Date Received in Lab:Sat Oct-13-18 09:00 amReport Date:24-OCT-18Project Manager:Jessica Kramer

	Lab Id:	602356-0	001	602356-	002	602356-0)03	602356-	004	602356-	005	602356-0)06
An alusia Dogu astad	Field Id:	SS01		SS01		SS02		SS02		SS03	;	SS04	
Analysis Requested	Depth:	6- In		12- Ir	1	6- In		12- In		12- In		12- In	
	Matrix:	SOIL		SOIL	,	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-12-18 (09:55	Oct-12-18	10:00	Oct-12-18 10:10		Oct-12-18 10:20		Oct-12-18 10:50		Oct-12-18 11:10	
BTEX by EPA 8021B	Extracted:	Oct-23-18	16:00	Oct-18-18	10:00	Oct-18-18	10:00	Oct-18-18	10:00	Oct-18-18	16:00	Oct-22-18 1	13:00
	Analyzed:	Oct-24-18 (Oct-24-18 05:02		19:34	Oct-18-18	19:56	Oct-18-18	20:17	Oct-19-18	04:53	Oct-22-18 1	9:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00202			0.00201	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00201	0.00201	0.266	0.199
Toluene		< 0.00202	<0.00202 0.00202 <		0.00201	< 0.00198	0.00198	< 0.00199	0.00199	0.0124	0.00201	1.90	0.199
Ethylbenzene		< 0.00202	<0.00202 0.00202 <		0.00201	< 0.00198	0.00198	< 0.00199	0.00199	0.0110	0.00201	3.49	0.199
m,p-Xylenes		< 0.00404	<0.00404 0.00404		0.00402	< 0.00397	0.00397	< 0.00398	0.00398	0.130	0.00402	24.0	0.398
o-Xylene		< 0.00202	<0.00202 0.00202		0.00201	< 0.00198	0.00198	<0.00199	0.00199	0.0278	0.00201	4.19	0.199
Total Xylenes		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00199	0.00199	0.158	0.00201	28.2	0.199
Total BTEX		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	<0.00199	0.00199	0.181	0.00201	33.8	0.199
Inorganic Anions by EPA 300	Extracted:	Oct-20-18	16:00	Oct-20-18 16:00		Oct-20-18	16:00	Oct-20-18	16:00	Oct-20-18	16:00	Oct-20-18 1	16:00
	Analyzed:	Oct-20-18	22:02	Oct-20-18 22:08		Oct-20-18 22:13		Oct-20-18 22:18		Oct-20-18	22:24	Oct-20-18 2	22:29
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.98	4.98	60.4	4.99	1430	25.0	1130	25.0	54.6	4.97	49.0	4.99
TPH by SW8015 Mod	Extracted:	Oct-17-18	10:00	Oct-17-18	10:00	Oct-17-18	10:00	Oct-17-18 10:00		Oct-17-18 10:00		Oct-17-18 1	0:00
	Analyzed:	Oct-17-18	13:34	Oct-17-18	13:53	Oct-17-18	14:12	Oct-17-18	14:32	Oct-17-18	14:52	Oct-17-18 1	15:12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	379	15.0	1040	15.0
Diesel Range Organics (DRO)		18.3	15.0	<15.0	15.0	136	15.0	120	15.0	1260	15.0	1460	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	32.0	15.0	39.7	15.0
Total TPH		18.3	15.0	<15.0	15.0	136	15.0	120	15.0	1670	15.0	2540	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

fession kenner

Jessica Kramer Project Assistant

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Project Id: Contact: Adrian Baker

Project Location: Eddy, NM 2RP-2542

Certificate of Analysis Summary 602356

LT Environmental, Inc., Arvada, CO Project Name: Federal G Gas Com 1



Date Received in Lab:Sat Oct-13-18 09:00 amReport Date:24-OCT-18Project Manager:Jessica Kramer

	Lab Id:	602356-	007	602356-	008	602356-0)09	602356-	010	602356-0	011	602356-	012
An abusis Dogwostad	Field Id:	SS05		SS05		SS06		SS06		SS07		SS07	,
Analysis Requested	Depth:	6- In		12- Ir	1	6- In		12- In		6- In		12- Ir	1
	Matrix:	SOIL		SOIL		SOIL	SOIL		SOIL		SOIL		
	Sampled:	Oct-12-18	11:20	Oct-12-18	11:25	Oct-12-18 12:05		Oct-12-18 12:10		Oct-12-18 12:20		Oct-12-18 12:25	
BTEX by EPA 8021B	Extracted:	Oct-18-18	Oct-18-18 10:00		Oct-18-18 10:00		16:00	Oct-22-18	16:00	Oct-22-18	13:00	Oct-22-18	13:00
	Analyzed:	Oct-18-18	Oct-18-18 20:38		21:00	Oct-23-18	08:25	Oct-23-18	08:45	Oct-22-18	21:25	Oct-22-18	19:26
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200			0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Toluene		< 0.00200	< 0.00200 0.00200 <		0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Ethylbenzene		< 0.00200	<0.00200 0.00200 <		0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
m,p-Xylenes		< 0.00401	<0.00401 0.00401		0.00402	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00399	0.00399	< 0.00402	0.00402
o-Xylene		< 0.00200	<0.00200 0.00200		0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Inorganic Anions by EPA 300	Extracted:	Oct-20-18	16:00	Oct-20-18 16:00		Oct-20-18	16:00	Oct-20-18	16:00	Oct-20-18	16:00	Oct-20-18	16:00
	Analyzed:	Oct-20-18	22:45	Oct-20-18	22:50	Oct-20-18 23:06		Oct-20-18 23:11		Oct-20-18	23:17	Oct-20-18	23:22
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		729	25.0	660	25.0	342	4.99	639	4.96	213	4.96	118	4.98
TPH by SW8015 Mod	Extracted:	Oct-17-18	10:00	Oct-17-18	10:00	Oct-17-18	10:00	Oct-17-18 10:00		Oct-17-18	10:00	Oct-17-18	10:00
	Analyzed:	Oct-17-18	15:33	Oct-17-18	16:31	Oct-17-18	16:50	Oct-17-18 17:09		Oct-17-18 17:27		Oct-17-18	17:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		46.3	15.0	289	15.0	84.4	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	25.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Total TPH		46.3	15.0	314	15.0	84.4	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0

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Jessica Kramer Project Assistant

Final 1.000



Project Id:

Contact: Project Location:

Adrian Baker Eddy, NM 2RP-2542

Certificate of Analysis Summary 602356

LT Environmental, Inc., Arvada, CO Project Name: Federal G Gas Com 1



Date Received in Lab: Sat Oct-13-18 09:00 am Report Date: 24-OCT-18 Project Manager: Jessica Kramer

	Lab Id:	602356-	013	602356-0	14		
	Field Id:	SS03	.	SS04			
Analysis Requested	Depth:	18- II	1	18- In			
	Matrix:	SOIL	_	SOIL			
	Sampled:	Oct-12-18	13:30	Oct-12-18 1	3:35		
BTEX by EPA 8021B	Extracted:	Oct-22-18	13:00	Oct-22-18 1	6:00		
	Analyzed:	Oct-22-18			9:05		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		0.00201	0.00201	< 0.202	0.202		
Γoluene		< 0.00201	0.00201	0.580	0.202		
Ethylbenzene		0.00687	0.00201	2.59	0.202		
m,p-Xylenes		0.0131	0.00402	14.4	0.403		
o-Xylene		< 0.00201	0.00201	2.22	0.202		
Total Xylenes		0.0131	0.00201	16.6	0.202		
Total BTEX		0.0220	0.00201	19.8	0.202		
Inorganic Anions by EPA 300	Extracted:	Oct-20-18	16:00	Oct-20-18 1	6:00		
	Analyzed:	Oct-20-18	23:27	Oct-20-18 2	3:33		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		<24.8	24.8	230	4.97		
TPH by SW8015 Mod	Extracted:	Oct-17-18	10:00	Oct-17-18 1	0:00		
	Analyzed:	Oct-17-18	18:04	Oct-17-18 1	8:23		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		77.8	15.0	1060	15.0		
Diesel Range Organics (DRO)		1220	15.0	1890	15.0		
Motor Oil Range Hydrocarbons (MRO)		49.0	15.0	38.2	15.0		
Total TPH		1350	15.0	2990	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing,

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Jessica Kramer Project Assistant





LT Environmental, Inc., Arvada, CO

Sample Id: SS01		Matrix:	Soil	I	Date Received:10.	13.18 09.0	0
Lab Sample Id: 602356-001		Date Collec	cted: 10.12.18 09.55	Sample Depth: 6 In			
Analytical Method: Inorganic Anions	by EPA 300			I	Prep Method: E30	00P	
Tech: CHE				ç	% Moisture:		
Analyst: CHE		Date Prep:	10.20.18 16.00	1	Basis: We	t Weight	
Seq Number: 3067142							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	10.20.18 22.02	U	1

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 10.17.	18 10.00	В	Basis: We	t Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 13.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	18.3	15.0		mg/kg	10.17.18 13.34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.17.18 13.34	U	1
Total TPH	PHC635	18.3	15.0		mg/kg	10.17.18 13.34		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	10.17.18 13.34		
o-Terphenyl		84-15-1	106	%	70-135	10.17.18 13.34		





LT Environmental, Inc., Arvada, CO

Sample Id:SS01Lab Sample Id:602356-001	Matrix: Soil Date Collected: 10.12.18 09.55	Date Received:10.13.18 09.00 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3067371	Date Prep: 10.23.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.24.18 05.02	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.24.18 05.02	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.24.18 05.02	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	10.24.18 05.02	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.24.18 05.02	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.24.18 05.02	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.24.18 05.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	10.24.18 05.02		
1,4-Difluorobenzene		540-36-3	119	%	70-130	10.24.18 05.02		





LT Environmental, Inc., Arvada, CO

Federal G Gas Com 1

Sample Id:	SS01		Matrix:	Soil]	Date Received:10.1	13.18 09.0	0
Lab Sample Io	d: 602356-002		Date Colle	cted: 10.12.18 10.00	Sample Depth: 12 In			
Analytical Me	ethod: Inorganic Anions	by EPA 300]	Prep Method: E30	0P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep:	10.20.18 16.00]	Basis: Wet	t Weight	
Seq Number:	3067142							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	60.4	4.99	mg/kg	10.20.18 22.08		1

Analytical Method: TPH by SW801	5 Mod				P	Prep Method: TX	K1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 10.17	18 10.00	E	Basis: W	et Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 13.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.17.18 13.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.17.18 13.53	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	10.17.18 13.53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	111-85-3	95	%	70-135	10.17.18 13.53		

101

%

70-135

10.17.18 13.53

84-15-1

o-Terphenyl





LT Environmental, Inc., Arvada, CO

Sample Id:SS01Lab Sample Id:602356-002	Matrix: Soil Date Collected: 10.12.18 10.00	Date Received:10.13.18 09.00 Sample Depth: 12 In			
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3066834	Date Prep: 10.18.18 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.18.18 19.34	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.18.18 19.34	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.18.18 19.34	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	10.18.18 19.34	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.18.18 19.34	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	10.18.18 19.34	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	10.18.18 19.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	70-130	10.18.18 19.34		
1,4-Difluorobenzene		540-36-3	110	%	70-130	10.18.18 19.34		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS02		Matrix:	Soil		Date Received:10	.13.18 09.0	0
Lab Sample Id	: 602356-003		Date Colle	cted: 10.12.18 10.10		Sample Depth: 6 I	n	
Analytical Met	thod: Inorganic Anions	by EPA 300				Prep Method: E3	00P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep:	10.20.18 16.00		Basis: We	et Weight	
Seq Number:	3067142							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1430	25.0	mg/kg	10.20.18 22.13		5

Analytical Method: TPH by SW801: Tech: ARM Analyst: ARM Seq Number: 3066700	5 Mod	Date Pre	p: 10.17	.18 10.00	%	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 14.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	136	15.0		mg/kg	10.17.18 14.12		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.17.18 14.12	U	1
Total TPH	PHC635	136	15.0		mg/kg	10.17.18 14.12		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	10.17.18 14.12		
o-Terphenyl		84-15-1	108	%	70-135	10.17.18 14.12		





LT Environmental, Inc., Arvada, CO

Sample Id:SS02Lab Sample Id:602356-003	Matrix: Soil Date Collected: 10.12.18 10.10	Date Received:10.13.18 09.00 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3066834	Date Prep: 10.18.18 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	10.18.18 19.56	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	10.18.18 19.56	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	10.18.18 19.56	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	10.18.18 19.56	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	10.18.18 19.56	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	10.18.18 19.56	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	10.18.18 19.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	10.18.18 19.56		
1,4-Difluorobenzene		540-36-3	110	%	70-130	10.18.18 19.56		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS02		Matrix:	Soil		Date Received:10.	13.18 09.0	0
Lab Sample Id: 602356-004			Date Colle	cted: 10.12.18 10.20		In		
Analytical M	ethod: Inorganic Anions	s by EPA 300				Prep Method: E30)0P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep:	10.20.18 16.00		Basis: We	t Weight	
Seq Number:	3067142							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1130	25.0	mg/kg	10.20.18 22.18		5

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 10.17	18 10.00	E	Basis: We	et Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 14.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	120	15.0		mg/kg	10.17.18 14.32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.17.18 14.32	U	1
Total TPH	PHC635	120	15.0		mg/kg	10.17.18 14.32		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	10.17.18 14.32		
o-Terphenyl		84-15-1	115	%	70-135	10.17.18 14.32		





LT Environmental, Inc., Arvada, CO

Sample Id:SS02Lab Sample Id:602356-004	Matrix: Soil Date Collected: 10.12.18 10.20	Date Received:10.13.18 09.00 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3066834	Date Prep: 10.18.18 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.18.18 20.17	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.18.18 20.17	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.18.18 20.17	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.18.18 20.17	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.18.18 20.17	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.18.18 20.17	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.18.18 20.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	78	%	70-130	10.18.18 20.17		
1,4-Difluorobenzene		540-36-3	128	%	70-130	10.18.18 20.17		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS03		Matrix:	Soil		Date Received:10.	13.18 09.0	0
Lab Sample Io	Lab Sample Id: 602356-005			ected: 10.12.18 10.50		[n		
Analytical Me	thod: Inorganic Anion	s by EPA 300				Prep Method: E30)0P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep	: 10.20.18 16.00		Basis: We	t Weight	
Seq Number:	3067142							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	54.6	4.97	mg/kg	10.20.18 22.24		1

Analytical Method:	TPH by SW8015	Mod				P	Prep Method: TX	K1005P	
Tech: ARM	1					9	6 Moisture:		
Analyst: ARM	1		Date Pre	p: 10.1	7.18 10.00	E	Basis: W	et Weight	
Seq Number: 3066	700								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydro	carbons (GRO)	PHC610	379	15.0		mg/kg	10.17.18 14.52		1
Diesel Range Organics	(DRO)	C10C28DRO	1260	15.0		mg/kg	10.17.18 14.52		1
Motor Oil Range Hydroca	arbons (MRO)	PHCG2835	32.0	15.0		mg/kg	10.17.18 14.52		1
Total TPH		PHC635	1670	15.0		mg/kg	10.17.18 14.52		1
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane			111-85-3	117	%	70-135	10.17.18 14.52		
o-Terphenyl			84-15-1	105	%	70-135	10.17.18 14.52		





LT Environmental, Inc., Arvada, CO

Sample Id:SS03Lab Sample Id:602356-005	Matrix: Soil Date Collected: 10.12.18 10.50	Date Received:10.13.18 09.00 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3066898	Date Prep: 10.18.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.19.18 04.53	U	1
Toluene	108-88-3	0.0124	0.00201		mg/kg	10.19.18 04.53		1
Ethylbenzene	100-41-4	0.0110	0.00201		mg/kg	10.19.18 04.53		1
m,p-Xylenes	179601-23-1	0.130	0.00402		mg/kg	10.19.18 04.53		1
o-Xylene	95-47-6	0.0278	0.00201		mg/kg	10.19.18 04.53		1
Total Xylenes	1330-20-7	0.158	0.00201		mg/kg	10.19.18 04.53		1
Total BTEX		0.181	0.00201		mg/kg	10.19.18 04.53		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	196	%	70-130	10.19.18 04.53	**	
1,4-Difluorobenzene		540-36-3	127	%	70-130	10.19.18 04.53		





LT Environmental, Inc., Arvada, CO

	Matrix: Date Collec	Soil eted: 10.12.18 11.10		Date Received:10.13.18 09.00 Sample Depth: 12 In			
nions by EPA 300	Date Prep:	10.20.18 16.00		% Moisture:			
Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
16887-00-6	49.0	4.99	mg/kg	10.20.18 22.29		1	
		Date Collect Anions by EPA 300 Date Prep: Cas Number Result	Date Collected: 10.12.18 11.10 Anions by EPA 300 Date Prep: 10.20.18 16.00 Cas Number Result RL	Date Collected: 10.12.18 11.10 Anions by EPA 300 Date Prep: 10.20.18 16.00 Cas Number Result RL Units	Date Collected: 10.12.18 11.10 Sample Depth: 12 1 Anions by EPA 300 Prep Method: E30 % Moisture: Date Prep: 10.20.18 16.00 Date Number Result RL Units Analysis Date	Date Collected: 10.12.18 11.10 Sample Depth: 12 In Anions by EPA 300 Prep Method: E300P Date Prep: 10.20.18 16.00 Basis: Wet Weight Cas Number RL Units Analysis Date Flag	

Tech: ARM					%	Moisture:		
Analyst: ARM		Date Prep): 10.17	.18 10.00	В	asis: We	t Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1040	15.0		mg/kg	10.17.18 15.12		1
Diesel Range Organics (DRO)	C10C28DRO	1460	15.0		mg/kg	10.17.18 15.12		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	39.7	15.0		mg/kg	10.17.18 15.12		1
Total TPH	PHC635	2540	15.0		mg/kg	10.17.18 15.12		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	10.17.18 15.12		
o-Terphenyl		84-15-1	102	%	70-135	10.17.18 15.12		





LT Environmental, Inc., Arvada, CO

Sample Id:SS04Lab Sample Id:602356-006	Matrix: Soil Date Collected: 10.12.18 11.10	Date Received:10.13.18 09.00 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3067217	Date Prep: 10.22.18 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.266	0.199		mg/kg	10.22.18 19.46		100
Toluene	108-88-3	1.90	0.199		mg/kg	10.22.18 19.46		100
Ethylbenzene	100-41-4	3.49	0.199		mg/kg	10.22.18 19.46		100
m,p-Xylenes	179601-23-1	24.0	0.398		mg/kg	10.22.18 19.46		100
o-Xylene	95-47-6	4.19	0.199		mg/kg	10.22.18 19.46		100
Total Xylenes	1330-20-7	28.2	0.199		mg/kg	10.22.18 19.46		100
Total BTEX		33.8	0.199		mg/kg	10.22.18 19.46		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	186	%	70-130	10.22.18 19.46	**	
1,4-Difluorobenzene		540-36-3	103	%	70-130	10.22.18 19.46		





LT Environmental, Inc., Arvada, CO

Sample Id: S	5805		Matrix:	Soil]	Date Received:	10.13.18 09.00)
Lab Sample Id: 6	502356-007		Date Collec	cted: 10.12.18 11.20	:	Sample Depth:	6 In	
Analytical Metho	od: Inorganic Anions l	oy EPA 300]	Prep Method:	E300P	
Tech: C	HE					% Moisture:		
Analyst: C	HE		Date Prep:	10.20.18 16.00]	Basis:	Wet Weight	
Seq Number: 30	067142							
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride		16887-00-6	729	25.0	mg/kg	10.20.18 22.4	.5	5

Analytical Method: TPH by SW801	5 Mod	Prep Method: TX100			1005P			
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prej	p: 10.17.	18 10.00	E	Basis: We	t Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 15.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	46.3	15.0		mg/kg	10.17.18 15.33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.17.18 15.33	U	1
Total TPH	PHC635	46.3	15.0		mg/kg	10.17.18 15.33		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	71	%	70-135	10.17.18 15.33		
o-Terphenyl		84-15-1	70	%	70-135	10.17.18 15.33		





LT Environmental, Inc., Arvada, CO

Sample Id:SS05Lab Sample Id:602356-007	Matrix: Soil Date Collected: 10.12.18 11.20	Date Received:10.13.18 09.00 Sample Depth: 6 In			
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3066834	Date Prep: 10.18.18 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.18.18 20.38	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.18.18 20.38	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.18.18 20.38	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.18.18 20.38	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.18.18 20.38	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.18.18 20.38	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.18.18 20.38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	120	%	70-130	10.18.18 20.38		
1,4-Difluorobenzene		540-36-3	115	%	70-130	10.18.18 20.38		





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Sample Id: SS05 Lab Sample Id: 602356-00	08	Matrix: Date Collec	Soil cted: 10.12.18 11.25	Date Received:10.13.18 09.0 Sample Depth: 12 In				
Analytical Method: Inorg Tech: CHE Analyst: CHE Seq Number: 3067142	anic Anions by EPA 300	Date Prep:	10.20.18 16.00		Prep Method: E30 % Moisture: Basis: We	00P t Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	660	25.0	mg/kg	10.20.18 22.50		5	
Analytical Method: TPH	by SW8015 Mod				Prep Method: TX	1005P		

Tech: ARM		% Moisture:						
Analyst: ARM		Date Prep	p: 10.17	.18 10.00	В	asis: We	t Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 16.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	289	15.0		mg/kg	10.17.18 16.31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	25.0	15.0		mg/kg	10.17.18 16.31		1
Total TPH	PHC635	314	15.0		mg/kg	10.17.18 16.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	10.17.18 16.31		
o-Terphenyl		84-15-1	106	%	70-135	10.17.18 16.31		





LT Environmental, Inc., Arvada, CO

Sample Id:SS05Lab Sample Id:602356-008	Matrix: Soil Date Collected: 10.12.18 11.25	Date Received:10.13.18 09.00 Sample Depth: 12 In			
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3066834	Date Prep: 10.18.18 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.18.18 21.00	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.18.18 21.00	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.18.18 21.00	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	10.18.18 21.00	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.18.18 21.00	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	10.18.18 21.00	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	10.18.18 21.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	70-130	10.18.18 21.00		
1,4-Difluorobenzene		540-36-3	109	%	70-130	10.18.18 21.00		





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Sample Id:	SS06		Matrix:	Soil		Date Received:10	.13.18 09.00)
Lab Sample Id:	602356-009		Date Colle	cted: 10.12.18 12.05		Sample Depth: 6 I	In	
Analytical Met	hod: Inorganic Anions	by EPA 300				Prep Method: E3	800P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep:	10.20.18 16.00		Basis: W	et Weight	
Seq Number:	3067142							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	342	4.99	mg/kg	10.20.18 23.06		1

Analytical Method: TPH by SW8015	5 Mod				Prep Method: TX1005P			
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Pre	p: 10.17	.18 10.00	В	Basis: We	t Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 16.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	84.4	15.0		mg/kg	10.17.18 16.50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.17.18 16.50	U	1
Total TPH	PHC635	84.4	15.0		mg/kg	10.17.18 16.50		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	10.17.18 16.50		
o-Terphenyl		84-15-1	99	%	70-135	10.17.18 16.50		





LT Environmental, Inc., Arvada, CO

Sample Id:SS06Lab Sample Id:602356-009	Matrix: Soil Date Collected: 10.12.18 12.05	Date Received:10.13.18 09.00 Sample Depth: 6 In			
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3067221	Date Prep: 10.22.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.23.18 08.25	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.23.18 08.25	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.23.18 08.25	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.23.18 08.25	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.23.18 08.25	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.23.18 08.25	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.23.18 08.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	10.23.18 08.25		
1,4-Difluorobenzene		540-36-3	108	%	70-130	10.23.18 08.25		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS06		Matrix:	Soil		Date Received:10.	13.18 09.0	0
Lab Sample I	d: 602356-010		Date Colle	cted: 10.12.18 12.10		Sample Depth: 12 In		
Analytical Me	ethod: Inorganic Anions	s by EPA 300				Prep Method: E3	00P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep:	10.20.18 16.00		Basis: We	et Weight	
Seq Number:	3067142							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	639	4.96	mg/kg	10.20.18 23.11		1

Analytical Method: TPH by SW8015 Tech: ARM Analyst: ARM Seq Number: 3066700	5 Mod	Date Pre	p: 10.17	.18 10.00	%	rep Method: TX 6 Moisture: 8asis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	10.17.18 17.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	10.17.18 17.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	10.17.18 17.09	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	10.17.18 17.09	U	1
Surrogate 1-Chlorooctane		Cas Number 111-85-3	% Recovery 96	Units %	Limits 70-135	Analysis Date 10.17.18 17.09	Flag	
o-Terphenyl		84-15-1	101	%	70-135	10.17.18 17.09		





LT Environmental, Inc., Arvada, CO

Sample Id:SS06Lab Sample Id:602356-010	Matrix: Soil Date Collected: 10.12.18 12.10	Date Received:10.13.18 09.00 Sample Depth: 12 In			
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3067221	Date Prep: 10.22.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.23.18 08.45	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.23.18 08.45	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.23.18 08.45	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.23.18 08.45	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.23.18 08.45	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.23.18 08.45	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.23.18 08.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	10.23.18 08.45		
1,4-Difluorobenzene		540-36-3	105	%	70-130	10.23.18 08.45		





LT Environmental, Inc., Arvada, CO

Federal G Gas Com 1

Chloride		16887-00-6	213	4.96	mg/kg	10.20.18 23.17		1
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3067142							
Analyst:	CHE		Date Prep:	10.20.18 16.00]	Basis: We	t Weight	
Tech:	CHE					% Moisture:		
Analytical M	ethod: Inorganic Anions	by EPA 300]	Prep Method: E30	00P	
Lab Sample I	d: 602356-011		Date Colle	cted: 10.12.18 12.20		Sample Depth: 6 In	l	
Sample Id:	SS07		Matrix:	Soil]	Date Received:10.	13.18 09.0	0

Analytical Method: TPH by SW801	5 Mod				Prep Method: TX1005P			
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 10.17	18 10.00	E	Basis: We	t Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 17.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.17.18 17.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.17.18 17.27	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	10.17.18 17.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	111-85-3	98	%	70-135	10.17.18 17.27		

105

%

70-135

10.17.18 17.27

84-15-1

o-Terphenyl





LT Environmental, Inc., Arvada, CO

Sample Id:SS07Lab Sample Id:602356-011	Matrix: Soil Date Collected: 10.12.18 12.20	Date Received:10.13.18 09.00 Sample Depth: 6 In			
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3067217	Date Prep: 10.22.18 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.22.18 21.25	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.22.18 21.25	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.22.18 21.25	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.22.18 21.25	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.22.18 21.25	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.22.18 21.25	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.22.18 21.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	10.22.18 21.25		
1,4-Difluorobenzene		540-36-3	111	%	70-130	10.22.18 21.25		





LT Environmental, Inc., Arvada, CO

Federal G Gas Com 1

Sample Id:	SS07		Matrix:	Soil]	Date Received:10.13.18 09.00		
Lab Sample I	d: 602356-012		Date Colle	cted: 10.12.18 12.25	2	Sample Depth: 12 I	'n	
Analytical Me	ethod: Inorganic Anions	s by EPA 300]	Prep Method: E30	0P	
Tech:	CHE				(% Moisture:		
Analyst:	CHE		Date Prep:	10.20.18 16.00]	Basis: Wet	t Weight	
Seq Number:	3067142							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	118	4.98	mg/kg	10.20.18 23.22		1

Analytical Method: TPH by SW80	15 Mod				F	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 10.17.	18 10.00	E	Basis: We	et Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.17.18 17.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.17.18 17.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.17.18 17.46	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	10.17.18 17.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	10.17.18 17.46		

101

%

70-135

10.17.18 17.46

84-15-1

o-Terphenyl





LT Environmental, Inc., Arvada, CO

Sample Id: SS07	Matrix: Soil	Date Received:10.13.18 09.00
Lab Sample Id: 602356-012	Date Collected: 10.12.18 12.25	Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3067217	Date Prep: 10.22.18 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.22.18 19.26	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.22.18 19.26	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.22.18 19.26	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	10.22.18 19.26	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.22.18 19.26	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	10.22.18 19.26	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	10.22.18 19.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	10.22.18 19.26		
4-Bromofluorobenzene		460-00-4	99	%	70-130	10.22.18 19.26		





LT Environmental, Inc., Arvada, CO

Sample Id: SS03		Matrix:	Soil		Date Received:10.	13.18 09.0	0
Lab Sample Id: 602356-013		Date Collec	cted: 10.12.18 13.30		Sample Depth: 18 l	Ín	
Analytical Method: Inorganic Anion	s by EPA 300				Prep Method: E30	00P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	10.20.18 16.00		Basis: We	t Weight	
Seq Number: 3067142							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<24.8	24.8	mg/kg	10.20.18 23.27	U	5

Analytical Method: TPH by SW8015	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 10.17.	18 10.00	E	asis: Wet	Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	77.8	15.0		mg/kg	10.17.18 18.04		1
Diesel Range Organics (DRO)	C10C28DRO	1220	15.0		mg/kg	10.17.18 18.04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	49.0	15.0		mg/kg	10.17.18 18.04		1
Total TPH	PHC635	1350	15.0		mg/kg	10.17.18 18.04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	10.17.18 18.04		
o-Terphenyl		84-15-1	120	%	70-135	10.17.18 18.04		





LT Environmental, Inc., Arvada, CO

Sample Id:SS03Lab Sample Id:602356-013	Matrix: Soil Date Collected: 10.12.18 13.30	Date Received:10.13.18 09.00 Sample Depth: 18 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3067217	Date Prep: 10.22.18 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00201	0.00201		mg/kg	10.22.18 21.05		1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.22.18 21.05	U	1
Ethylbenzene	100-41-4	0.00687	0.00201		mg/kg	10.22.18 21.05		1
m,p-Xylenes	179601-23-1	0.0131	0.00402		mg/kg	10.22.18 21.05		1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.22.18 21.05	U	1
Total Xylenes	1330-20-7	0.0131	0.00201		mg/kg	10.22.18 21.05		1
Total BTEX		0.0220	0.00201		mg/kg	10.22.18 21.05		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	90	%	70-130	10.22.18 21.05		
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.22.18 21.05		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS04		Matrix:	Soil		Date Received:10.	13.18 09.00)
Lab Sample I	d: 602356-014		Date Coll	ected: 10.12.18 13.35		Sample Depth: 18	[n	
Analytical M	ethod: Inorganic Anion	s by EPA 300				Prep Method: E30)0P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep	: 10.20.18 16.00		Basis: We	t Weight	
Seq Number:	3067142							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	230	4.97	mg/kg	10.20.18 23.33		1

Analytical Method: TPH by SW8015	Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Pre	p: 10.17	.18 10.00	В	asis: We	t Weight	
Seq Number: 3066700								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1060	15.0		mg/kg	10.17.18 18.23		1
Diesel Range Organics (DRO)	C10C28DRO	1890	15.0		mg/kg	10.17.18 18.23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	38.2	15.0		mg/kg	10.17.18 18.23		1
Total TPH	PHC635	2990	15.0		mg/kg	10.17.18 18.23		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	124	%	70-135	10.17.18 18.23		
o-Terphenyl		84-15-1	125	%	70-135	10.17.18 18.23		





LT Environmental, Inc., Arvada, CO

Sample Id:SS04Lab Sample Id:602356-014	Matrix: Soil Date Collected: 10.12.18 13.35	Date Received:10.13.18 09.00 Sample Depth: 18 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3067221	Date Prep: 10.22.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.202	0.202		mg/kg	10.23.18 09.05	U	100
Toluene	108-88-3	0.580	0.202		mg/kg	10.23.18 09.05		100
Ethylbenzene	100-41-4	2.59	0.202		mg/kg	10.23.18 09.05		100
m,p-Xylenes	179601-23-1	14.4	0.403		mg/kg	10.23.18 09.05		100
o-Xylene	95-47-6	2,22	0.202		mg/kg	10.23.18 09.05		100
Total Xylenes	1330-20-7	16.6	0.202		mg/kg	10.23.18 09.05		100
Total BTEX		19.8	0.202		mg/kg	10.23.18 09.05		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	170	%	70-130	10.23.18 09.05	**	
1,4-Difluorobenzene		540-36-3	94	%	70-130	10.23.18 09.05		



Flagging Criteria



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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





LT Environmental, Inc.

Federal G Gas Com 1

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	00P	
Seq Number:	3067142			Matrix:	Solid				Date Pre	p: 10.2	20.18	
MB Sample Id:	7664562-1-BLK		LCS Sar	nple Id:	7664562-2	1-BKS		LCSI	O Sample	Id: 766	4562-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD 1	RPD Limi	t Units	Analysis Date	Flag
Chloride	< 5.00	250	269	108	264	106	90-110	2	20	mg/kg	10.20.18 21:04	

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3067142			Matrix:	Soil				Date Pre	p: 10.2	20.18	
Parent Sample Id:	602356-006		MS Sar	nple Id:	602356-00)6 S		MSI	O Sample	Id: 602	356-006 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	49.0	250	322	109	324	110	90-110	1	20	mg/kg	10.20.18 22:34	

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3067142			Matrix:	Soil				Date Pre	ep: 10.2	20.18	
Parent Sample Id:	602463-003	02463-003		nple Id:	602463-00)3 S		MSI	D Sample	Id: 602	463-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
	Ktsuit	Amount	Result	/onec	Result	70 Kec					Date	

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3066700 7664344-1		od		Matrix: nple Id:	Solid 7664344-	1-BKS			Prep Method Date Prep SD Sample l	p: 10.1	1005P 7.18 4344-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<8.00	1000	982	98	986	99	70-135	0	20	mg/kg	10.17.18 11:21	
Diesel Range Organics	(DRO)	<8.13	1000	998	100	1000	100	70-135	0	20	mg/kg	10.17.18 11:21	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re	-		Limits	Units	Analysis Date	
1-Chlorooctane		105		1	29		128		,	70-135	%	10.17.18 11:21	
o-Terphenyl		111		1	06		103		,	70-135	%	10.17.18 11:21	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec





LT Environmental, Inc.

Federal G Gas Com 1

Analytical Method:	TPH by S	SW8015 M	lod]	Prep Method	l: TX1	005P		
Seq Number:	3066700				Matrix:	Soil				Date Prep	b: 10.1	7.18	
Parent Sample Id:	602230-00	05		MS Sar	nple Id:	602230-0	05 S		M	SD Sample l	ld: 6022	230-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<7.99	999	939	94	957	96	70-135	2	20	mg/kg	10.17.18 12:18	
Diesel Range Organics	(DRO)	<8.12	999	964	96	980	98	70-135	2	20	mg/kg	10.17.18 12:18	
Surrogate					AS Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	20		128		7	0-135	%	10.17.18 12:18	
o-Terphenyl				9	98		100		7	70-135	%	10.17.18 12:18	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3066834 7664423-1-BLK	1B	LCS San	Matrix: nple Id:		1-BKS			Prep Method Date Prep SD Sample	p: 10.1	5030B 8.18 4423-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.124	123	0.126	126	70-130	2	35	mg/kg	10.18.18 12:26	
Toluene	< 0.00202	0.101	0.108	107	0.108	108	70-130	0	35	mg/kg	10.18.18 12:26	
Ethylbenzene	< 0.00202	0.101	0.117	116	0.120	120	70-130	3	35	mg/kg	10.18.18 12:26	
m,p-Xylenes	< 0.00102	0.202	0.247	122	0.238	118	70-130	4	35	mg/kg	10.18.18 12:26	
o-Xylene	< 0.00202	0.101	0.123	122	0.126	126	70-130	2	35	mg/kg	10.18.18 12:26	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	112		1	27		116			70-130	%	10.18.18 12:26	
4-Bromofluorobenzene	90		1	20		121			70-130	%	10.18.18 12:26	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3066898 7664468-1-BLK	1B	LCS Sar	Matrix: nple Id:		1-BKS			Prep Method Date Prep SD Sample	p: 10.1	5030B 8.18 4468-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.120	120	0.120	120	70-130	0	35	mg/kg	10.18.18 23:53	
Toluene	< 0.00200	0.0998	0.105	105	0.108	108	70-130	3	35	mg/kg	10.18.18 23:53	
Ethylbenzene	< 0.00200	0.0998	0.114	114	0.122	122	70-130	7	35	mg/kg	10.18.18 23:53	
m,p-Xylenes	< 0.00399	0.200	0.236	118	0.247	124	70-130	5	35	mg/kg	10.18.18 23:53	
o-Xylene	< 0.00200	0.0998	0.115	115	0.121	121	70-130	5	35	mg/kg	10.18.18 23:53	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	100		1	16		116			70-130	%	10.18.18 23:53	
4-Bromofluorobenzene	101		1	23		127			70-130	%	10.18.18 23:53	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Federal G Gas Com 1

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3067217 7664674-1-BLK	1B	LCS Sar	Matrix: nple Id:		1-BKS			Prep Metho Date Pre SD Sample	p: 10.2	5030B 2.18 4674-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	O RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.125	126	0.120	120	70-130	4	35	mg/kg	10.22.18 14:45	
Toluene	< 0.00199	0.0996	0.116	116	0.112	112	70-130	4	35	mg/kg	10.22.18 14:45	
Ethylbenzene	< 0.00199	0.0996	0.105	105	0.102	102	70-130	3	35	mg/kg	10.22.18 14:45	
m,p-Xylenes	< 0.00398	0.199	0.204	103	0.196	98	70-130	4	35	mg/kg	10.22.18 14:45	
o-Xylene	< 0.00199	0.0996	0.0952	96	0.0924	93	70-130	3	35	mg/kg	10.22.18 14:45	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene	110		9	90		93			70-130	%	10.22.18 14:45	
4-Bromofluorobenzene	86			76		78			70-130	%	10.22.18 14:45	

Analytical Method:	BTEX by EPA 802	1B]	Prep Metho	d: SW3	5030B	
Seq Number:	3067221			Matrix:	Solid				Date Pre	p: 10.2	2.18	
MB Sample Id:	7664675-1-BLK		LCS Sar	nple Id:	7664675-	1-BKS		LC	SD Sample	Id: 7664	4675-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.113	113	0.116	115	70-130	3	35	mg/kg	10.23.18 01:05	
Toluene	< 0.00201	0.100	0.105	105	0.108	107	70-130	3	35	mg/kg	10.23.18 01:05	
Ethylbenzene	< 0.00201	0.100	0.104	104	0.0964	95	70-130	8	35	mg/kg	10.23.18 01:05	
m,p-Xylenes	< 0.00402	0.201	0.187	93	0.182	90	70-130	3	35	mg/kg	10.23.18 01:05	
o-Xylene	< 0.00201	0.100	0.0840	84	0.0977	97	70-130	15	35	mg/kg	10.23.18 01:05	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene	111		5	39		93		7	70-130	%	10.23.18 01:05	
4-Bromofluorobenzene	79			71		83		7	70-130	%	10.23.18 01:05	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3067371 7664751-1-BLK	lB	LCS San	Matrix: nple Id:	Solid 7664751-	1-BKS			Prep Metho Date Pre SD Sample	p: 10.2	5030B 3.18 4751-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.115	114	0.123	123	70-130	7	35	mg/kg	10.23.18 13:43	
Toluene	< 0.00201	0.101	0.0978	97	0.107	107	70-130	9	35	mg/kg	10.23.18 13:43	
Ethylbenzene	< 0.00201	0.101	0.117	116	0.129	129	70-130	10	35	mg/kg	10.23.18 13:43	
m,p-Xylenes	< 0.00102	0.201	0.234	116	0.255	127	70-130	9	35	mg/kg	10.23.18 13:43	
o-Xylene	< 0.00201	0.101	0.110	109	0.120	120	70-130	9	35	mg/kg	10.23.18 13:43	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	113		1	03		111		-	70-130	%	10.23.18 13:43	
4-Bromofluorobenzene	108		1	15		113			70-130	%	10.23.18 13:43	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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LT Environmental, Inc.

Federal G Gas Com 1

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3066834 602569-003	1B	MS San	Matrix: nple Id:		03 S			Prep Metho Date Pre SD Sample	p: 10.1	5030B 8.18 569-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	RPD Limit	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0845	85	0.0939	94	70-130	11	35	mg/kg	10.18.18 13:09	
Toluene	< 0.00200	0.100	0.0751	75	0.0822	82	70-130	9	35	mg/kg	10.18.18 13:09	
Ethylbenzene	< 0.00200	0.100	0.0880	88	0.0966	97	70-130	9	35	mg/kg	10.18.18 13:09	
m,p-Xylenes	< 0.00400	0.200	0.177	89	0.193	97	70-130	9	35	mg/kg	10.18.18 13:09	
o-Xylene	< 0.00200	0.100	0.0868	87	0.0952	95	70-130	9	35	mg/kg	10.18.18 13:09	
Surrogate				1S Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	21		120		-	70-130	%	10.18.18 13:09	
4-Bromofluorobenzene			1	26		122			70-130	%	10.18.18 13:09	

Analytical Method:	BTEX by EPA 802	1B						I	Prep Metho	d: SW5	5030B	
Seq Number:	3066898]	Matrix:	Soil				Date Pre	p: 10.1	8.18	
Parent Sample Id:	602357-002		MS San	nple Id:	602357-00	02 S		MS	SD Sample	Id: 6023	357-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0827	83	0.107	106	70-130	26	35	mg/kg	10.19.18 00:35	
Toluene	< 0.00201	0.100	0.0736	74	0.0872	86	70-130	17	35	mg/kg	10.19.18 00:35	
Ethylbenzene	< 0.00201	0.100	0.0883	88	0.0927	92	70-130	5	35	mg/kg	10.19.18 00:35	
m,p-Xylenes	< 0.00402	0.201	0.177	88	0.183	91	70-130	3	35	mg/kg	10.19.18 00:35	
o-Xylene	< 0.00201	0.100	0.0840	84	0.0889	88	70-130	6	35	mg/kg	10.19.18 00:35	
Surrogate				1S Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		123		7	0-130	%	10.19.18 00:35	
4-Bromofluorobenzene			1	18		129		7	0-130	%	10.19.18 00:35	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3067217 602545-001	1B	MS San	Matrix: nple Id:				Prep Method: SW5030B Date Prep: 10.22.18 MSD Sample Id: 602545-001 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0978	98	0.0914	92	70-130	7	35	mg/kg	10.22.18 15:26	
Toluene	< 0.00199	0.0996	0.0838	84	0.0796	80	70-130	5	35	mg/kg	10.22.18 15:26	
Ethylbenzene	< 0.00199	0.0996	0.0676	68	0.0667	67	70-130	1	35	mg/kg	10.22.18 15:26	Х
m,p-Xylenes	< 0.00398	0.199	0.135	68	0.137	69	70-130	1	35	mg/kg	10.22.18 15:26	Х
o-Xylene	< 0.00199	0.0996	0.0673	68	0.0686	69	70-130	2	35	mg/kg	10.22.18 15:26	Х
Surrogate					MS Flag	MSD %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene			ç	94		96			70-130	%	10.22.18 15:26	
4-Bromofluorobenzene			7	79		83		,	70-130	%	10.22.18 15:26	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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LT Environmental, Inc.

Federal G Gas Com 1

Analytical Method:	BTEX by EPA 8021	1B					Prep Method: SW5030B							
Seq Number:	3067221]	Matrix:	Soil				Date Pre	ep: 10.2	2.18			
Parent Sample Id:	602976-001		MS San	nple Id:	602976-00	01 S		MS	SD Sample	Id: 6029	976-001 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag		
Benzene	< 0.00199	0.0996	0.102	102	0.0910	91	70-130	11	35	mg/kg	10.23.18 01:45			
Toluene	< 0.00199	0.0996	0.0911	91	0.0802	80	70-130	13	35	mg/kg	10.23.18 01:45			
Ethylbenzene	< 0.00199	0.0996	0.0773	78	0.0674	67	70-130	14	35	mg/kg	10.23.18 01:45	Х		
m,p-Xylenes	< 0.00398	0.199	0.146	73	0.128	64	70-130	13	35	mg/kg	10.23.18 01:45	Х		
o-Xylene	< 0.00199	0.0996	0.0703	71	0.0617	62	70-130	13	35	mg/kg	10.23.18 01:45	Х		
Surrogate				IS Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date			
1,4-Difluorobenzene			9	94		95		7	0-130	%	10.23.18 01:45			
4-Bromofluorobenzene			8	30		78		7	0-130	%	10.23.18 01:45			

Analytical Method:	BTEX by EPA 802	1B					Prep Method: SW5030B							
Seq Number:	3067371			Matrix:	Soil				Date Prep	p: 10.2	3.18			
Parent Sample Id:	603125-001		MS San	nple Id:	603125-00	01 S		М	SD Sample	Id: 603	125-001 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag		
Benzene	< 0.00199	0.0994	0.0908	91	0.0871	87	70-130	4	35	mg/kg	10.24.18 01:49			
Toluene	< 0.00199	0.0994	0.0764	77	0.0730	73	70-130	5	35	mg/kg	10.24.18 01:49			
Ethylbenzene	< 0.00199	0.0994	0.0841	85	0.0797	80	70-130	5	35	mg/kg	10.24.18 01:49			
m,p-Xylenes	< 0.00398	0.199	0.171	86	0.159	80	70-130	7	35	mg/kg	10.24.18 01:49			
o-Xylene	< 0.00199	0.0994	0.0844	85	0.0779	78	70-130	8	35	mg/kg	10.24.18 01:49			
Surrogate				1S Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date			
1,4-Difluorobenzene			1	18		102			70-130	%	10.24.18 01:49			
4-Bromofluorobenzene			1	06		99			70-130	%	10.24.18 01:49			

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} & [D] = 100*(C-A) \ / \ B \\ & RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ & [D] = 100*(C) \ / \ [B] \\ & Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{split}$$

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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S On Lee Cooler Temp. Tharmo. Corr. Factor Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from citent company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the voice of samples constitutes and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the voice of samples and shall not assume any responsibility for any will be enforced unless previously negotiated under a fully executed client contract. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be involced at \$5 per sample. These terms	Balimasishad ha		Relino(sharfw Samler Samler SAMPLE CUSTOP MUS	TAT Starts Day received hull an iteration]	Turnaround Time (9 5025				4 5502	3 502	2 501	1 022		No. Field ID / Point of Collection		Adrian Baker	ababy a terrican (432)	Emaily of NASC. Nillary Work 103		5	Cilent / Reporting Information		Dallas Texas (214-902-0300)	Stafford,Texas (281-240-4200)	LABURATORIES
Date Time: ples constitutes a valid purchase order cunstances beyond the control of Xenc client contract.		10/12/2015 15:10	LE CUSTODY MUST BE DOCUMENT					av TAT		6 1 6	12"	6"	12"	12"	12"	. 6"	12 11	51/10/12	Sample Depth Date	0		PO Number	432704-5178 17	No: 72/2	Millar TY	092:, .			Midtar	San A	
Received By: 5 from client company to Xenco, its affiliate o. A minimum charge of \$75 will be apple	3	international in	ED BELOW PACH TIME SANPLES CHA	TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC			0	11:25 5 1	11:20 5 1	11-10 5 1			C.		19:55 5 1	Time Matrix bottles C		34818011	ber:	TEANINA LI -	DDY NM	Project Location:	~ "	Bolatilation - 1 - 1 - 1	WWW XENCO.com	Midland, Texas (432-704-5251)	San Antonio, Texas (210-509-3334)	
Custody Seal # es and subcontractors. It assigns standare to each project. Xenco's liability will be	Relinquished By:	shed an	WAE POSSESSION, INCLUDING COURIE		UST / RG -411	TRRP Level IV	Levei IV (Full Data Pkg	ιį.											NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH	Number of person we person		Marian Kafel		2RP 2542	6 625 (201)	0		<u>.com</u>			DF C STOD
Preserved where applicable		Date Time:	R DEI NEBY				kg /raw data)		AN WN I									XXXV	TPH/	Y (DRD, DRD,	Ол 61 2	ly Ro (3	BTE Mp	0)8	302 7019		Analytical Information	Xenco Quote #	r noemx, Anzona (480-366-0900)		DY .
On Ice Cooler On Ice Cooler On Ice Cooler On Ice Cooler Nill be liable only für the cost of samples a will be liable only für the cost of samples a will be liable only für the cost of samples a	Received By:	Siz, Received By	FED-EX / UPS: Tracking #					Notes:					<i></i>														formation	Xenco Job #	6-0900)		
er Tepp. Tharmo. Corr. Factor		$\frac{1}{1}$					-					10		·				rield Comments		WW= Waste Water A = Air		OW =:Ocean/Sea Water WI = Wine	SW = Surface water SL ≂ Sludge	GW =Ground Water DW = Drinking Water P = Product			Matrix Codes	34			

Final 1.000

Page 110 of 521

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Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from citent company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any index of service in the cost of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any will be enforced unless previously negotiated under a fully executed client contract. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be involved at \$5 per sample. These terms

			1
F	Page	43	of

44

Final 1.000

OW=Ocean/Sea Water SL = Sludge SW = Surface water P = Product

WI = Wipe O = Oil WW= Waste Water

A = Air

LABURATORIES		· ·
Setting the Standard since 1990	- management of the second	
Stafford, Texas (281-240-4200)	San Antonio, Texas (210-509-3334)	Phoeni
Dallas Texas (214-902-0300)		
	WWW.Xenco.com	Xenco Q
Cilent / Reporting Information	Project Information	
Company Name / Branch: Li Environe tal Inc. Pernian. Office	G Cri Con 1	21
Company Address	47	80
	Invoice To:	<u> </u>
1432724-5178	IT Encould - Ala pho	BT
	PO Number	ly
4	34818011	On
	Calledon	<u> </u>
No. Field ID / Point of Collection Sample	H/Zn ate 13 04 H SO4 H E	TEY
Depth	Date Time Matrix bottles CI NaCeT NACE NON	B

8015

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W = Water S = Scil/Sed/Solid GW =Ground Water DW = Drinking Water

Xenco Quote #

Xenco Job #

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Matrix Codes

Analytical Information

Phoenix, Arizona (480-355-0900)

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* 0 Date 2

12:20

Matrix t

TPH

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Field Comments

DRO

hloride

GRO

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MRO)

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12:25

1131

13:35 13:30

> て 0

50 5007

Received by OCD: 7/26/2023 9:27:22 AM	
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Relinquished by: Relinquisted by Sampler 3 Day EMERGENCY 2 Day EMERGENCY

> Contract TAT 7 Day TAT 5 Day TAT

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, MCLUDING COURJER OF LIVERY
[Date,Timpe: ,. [Received By/ ///// / / [Relinguis/hed/By; / //]

TRRP Checklist

Level 3 (CLP Forms)

UST / RG -411 **TRRP Level IV**

Level III Std QC+ Forms

Level II Std QC

Level IV (Full Data Pkg /raw data)

Notes:

Data Deliverable Information

Date Time: / s/12/24/ 15:10 Date Time:

NN

Relinguished By: **Relinquished By:**

Date Time:

Received By: Received By:

Custody Seal #

Preserved where applicable

Cooler Temp

Therme. Corr. Factor

595 هر

16/12/16 Date Time:

Received By:

3

Rec

-A BAN

FED-EX / UPS: Tracking #

Relinquished by:

6 ശ ω 7 G 5T

Next Day EMERGENCY

Same Day TAT

Turnaround Time (Business days)

Received by OCD: 7/26/2023 9:27:22 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/13/2018 09:00:00 AM Temperature Measuring device used : R8 Work Order #: 602356 Comments Sample Receipt Checklist .3 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel

Date: 10/15/2018

N/A

N/A

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 10/15/2018

for LT Environmental, Inc.

Project Manager: Adrian Baker

Federal G Gas Com 1

034818011

09-FEB-19

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



09-FEB-19

Project Manager: **Adrian Baker LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 613224 Federal G Gas Com 1 Project Address:

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 613224. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 613224 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

ile to

Mike Kimmel Client Services Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America





Sample Cross Reference 613224



LT Environmental, Inc., Arvada, CO

Federal G Gas Com 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	01-30-19 11:45	2 ft	613224-001
FS02	S	01-30-19 11:50	2 ft	613224-002
FS03	S	01-30-19 12:10	3 ft	613224-003
SW01	S	01-30-19 12:40	0 - 2 ft	613224-004
FS04	S	01-30-19 16:20	3.5 ft	613224-005
FS03	S	01-30-19 16:30	2 ft	613224-006
SW02	S	01-30-19 16:50	0 - 3 ft	613224-007
SW03	S	01-30-19 17:00	0 - 3.5 ft	613224-008

Version: 1.%



CASE NARRATIVE

Page 116 of 521

Client Name: LT Environmental, Inc. Project Name: Federal G Gas Com 1

 Project ID:
 034818011

 Work Order Number(s):
 613224

Report Date: 09-FEB-19 Date Received: 02/01/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3078104 TPH by SW8015 Mod Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 613224-001.

Batch: LBA-3078557 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 613224-006,613224-003,613224-008,613224-005,613224-001,613224-007. Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



034818011 **Project Id:** Adrian Baker

Contact:

Project Location:

Certificate of Analysis Summary 613224

LT Environmental, Inc., Arvada, CO Project Name: Federal G Gas Com 1



Date Received in Lab: Fri Feb-01-19 12:45 pm Report Date: 09-FEB-19 Project Manager: Jessica Kramer

	Lab Id:	613224-0	001	613224-(002	613224-0	003	613224-	004	613224-0	005	613224-0	006				
	Field Id:	FS01	FS01			FS03		SW01	1	FS04		FS03					
Analysis Requested	Depth:	2- ft		2- ft		3- ft		0-2 ft	t	3.5- ft		2- ft					
	Matrix:	SOIL	SOIL		,	SOIL		SOIL		SOIL		SOIL	,				
	Sampled:	Jan-30-19	11:45	Jan-30-19	11:50	Jan-30-19	12:10	Jan-30-19	12:40	Jan-30-19	6:20	Jan-30-19	16:30				
BTEX by EPA 8021B	Extracted:	Feb-07-19	13:00	Feb-07-19	13:00	Feb-07-19	13:00	Feb-07-19	13:00	Feb-07-19	13:00	Feb-07-19	13:00				
	Analyzed:	Feb-08-19	13:15	Feb-08-19	14:09	Feb-08-19	14:28	Feb-08-19	12:56	Feb-08-19	15:44	Feb-08-19					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene	-	0.328	0.100	0.0957	0.0200	0.0307	0.0200	< 0.00200	0.00200	1.81	0.402	0.0920	0.0202				
Toluene		9.29	0.100	0.0557	0.0200	0.718	0.0200	< 0.00200	0.00200	28.6	0.402	3.18	0.0202				
Ethylbenzene		6.46	0.100	0.0202	0.0200	0.0767	0.0200	< 0.00200	0.00200	14.9	0.402	0.310	0.0202				
m,p-Xylenes		21.8	0.201	0.213	0.0399	2.05	0.0400	0.00717	0.00400	93.6	0.803	19.3 D	0.400				
o-Xylene		8.17	0.100	0.344	0.0200	0.931	0.0200	< 0.00200	0.00200	13.4	0.402	3.21	0.0202				
Total Xylenes		30.0	0.100	0.557	0.0200	2.98	0.0200	0.00717	0.00200	107	0.402	22.5	0.0202				
Total BTEX		46.0	0.100	0.729	0.0200	3.81	0.0200	0.00717	0.00200	152	0.402	26.1	0.0202				
Inorganic Anions by EPA 300	Extracted:	Feb-06-19	08:30	Feb-06-19	08:30	Feb-06-19	08:30	Feb-06-19	08:30	Feb-06-19 (08:30	Feb-06-19	08:30				
	Analyzed:	Feb-06-19	09:36	Feb-06-19	10:07	Feb-06-19	11:30	Feb-06-19	10:34	Feb-06-19	10:41	Feb-06-19	10:47				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		14.5	5.00	305	4.98	51.2	4.98	383	4.98	82.7	4.98	220	5.00				
TPH by SW8015 Mod	Extracted:	Feb-04-19	17:00	Feb-04-19	17:00	Feb-04-19	17:00	Feb-04-19	17:00	Feb-04-19	17:00	Feb-04-19	17:00				
	Analyzed:	Feb-04-19	22:16	Feb-04-19	22:36	Feb-04-19	23:36	Feb-04-19	23:56	Feb-05-19 00:16		Feb-05-19 00:16		Feb-05-19 00:16		Feb-05-19	00:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		2000	15.0	68.7	15.0	181	14.9	<14.9	14.9	3230	15.0	747	15.0				
Diesel Range Organics (DRO)		2710	15.0	392	15.0	772	14.9	64.8	14.9	2410	15.0	956	15.0				
Motor Oil Range Hydrocarbons (MRO)		211	15.0	30.3	15.0	83.1	14.9	<14.9	14.9	161	15.0	69.0	15.0				
Total TPH		4920	15.0	491	15.0	1040	14.9	64.8	14.9	5800	15.0	1770	15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing,

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Mike Kimmel Client Services Manager



Project Id:034818011Contact:Adrian Baker

Project Location:

Certificate of Analysis Summary 613224

LT Environmental, Inc., Arvada, CO Project Name: Federal G Gas Com 1



Date Received in Lab:Fri Feb-01-19 12:45 pmReport Date:09-FEB-19Project Manager:Jessica Kramer

				1		1		
Lab Id:	613224-	007	613224-0	008				
Field Id:	SW02	2	SW03					
Depth:	0-3 ft		0-3.5 f	ť				
Matrix:	SOIL	,	SOIL					
Sampled:	Jan-30-19	16:50	Jan-30-19	17:00				
Extracted:	Feb-07-19	13:00	Feb-07-19	13:00				
Analyzed:	Feb-08-19	15:06	Feb-08-19	15:25				
Units/RL:	mg/kg	RL	mg/kg	RL				
	0.0308	0.0200	0.0494	0.0201				
	1.06	0.0200	2.25	0.0201				
	0.998	0.0200	0.328	0.0201				
	4.27	0.0399	6.03	0.0402				
	1.50	0.0200	3.40					
	5.77	0.0200	9.43	0.0201				
	7.86	0.0200	12.1	0.0201				
Extracted:	Feb-06-19	08:30	Feb-06-19 (08:30				
Analyzed:	Feb-06-19	10:53	Feb-06-19	11:05				
Units/RL:	mg/kg	RL	mg/kg	RL				
	32.2	4.96	342	4.99				
Extracted:	Feb-05-19	10:00	Feb-05-19	10:00				
Analyzed:	Feb-05-19	15:15	Feb-05-19	15:35				
Units/RL:	mg/kg	RL	mg/kg	RL				
	359	14.9	500	15.0				
	1180	14.9	897	15.0				
	122	14.9	69.4	15.0				
	1660	14.9	1470	15.0				
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: SW02 Depth: 0-3 ft Matrix: SOIL Sampled: Jan-30-19 Extracted: Feb-07-19 Analyzed: Feb-08-19 Units/RL: mg/kg 0.0308 1.06 0.998 4.27 1.50 5.77 7.86 Feb-06-19 Analyzed: Feb-06-19 Analyzed: Feb-06-19 Units/RL: mg/kg 32.2 Extracted: Feb-05-19 Analyzed: Feb-05-19 Analyzed: Feb-05-19 Manalyzed: Feb-05-19 Analyzed: S59 1180 329 122 24	Field Id: SW02 Depth: 0-3 ft Matrix: SOIL Sampled: Jan-30-19 16:50 Extracted: Feb-07-19 13:00 Analyzed: Feb-08-19 15:06 Units/RL: mg/kg RL 0.0308 0.0200 1.06 0.0200 4.27 0.0399 0.1.06 0.0200 4.27 0.0308 0.1.06 0.0200 5.77 0.0200 5.77 0.0200 7.86 0.0200 Extracted: Feb-06-19 08:30 Analyzed: Feb-06-19 08:30 Inits/RL: mg/kg RL Mg/kg RL Stracted: Feb-05-19 10:00 Analyzed: Feb-05-19 10:00 Analyzed: Feb-05-19 15:15 Stracted: Units/RL: mg/kg RL 359 14.9 359 14.9 1180 14.9 14.9 122 14.9	Field Id: SW02 SW03 Depth: $0-3$ ft $0-3.5$ ft Matrix: SOIL SOIL Sampled: Jan-30-19 16:50 Jan-30-19 17 Extracted: Feb-07-19 13:00 Feb-07-19 13:00 Malyzed: Feb-08-19 15:06 Feb-08-19 17 Units/RL: mg/kg RL mg/kg 0.0308 0.0200 0.0494 1.06 0.0200 2.255 0.998 0.0200 0.328 0.106 0.0200 3.40 1.50 0.0200 3.40 5.77 0.0200 3.40 5.77 0.0200 3.40 Analyzed: Feb-06-19 08:30 Feb-06-19 Analyzed: Feb-06-19 08:30 Feb-06-19 Mutis/RL: mg/kg RL mg/kg Malyzed: Feb-05-19 10:00 Feb-05-19 Analyzed: Feb-05-19 15:15 Feb-05-19 Mits/RL: mg/kg RL mg/kg Malyzed: Feb-05-19 15:15 Feb-05-19 Malyzed: Feb-05-19 Feb-05-19 <td>Field Id: SW02 SW03 Depth: $0-3$ ft $0-3.5$ ft Matrix: SOIL SOIL Sampled: Jan-30-19 16:50 Jan-30-19 17:00 Extracted: Feb-07-19 13:00 Feb-07-19 13:00 Analyzed: Feb-08-19 15:06 Feb-08-19 15:25 Units/RL: mg/kg RL mg/kg RL 0.0308 0.0200 0.0494 0.0201 1.06 0.0200 2.25 0.0201 0.106 0.0200 3.40 0.0201 4.27 0.0399 6.03 0.0402 1.50 0.0200 3.40 0.0201 4.27 0.0309 6.03 0.0402 1.50 0.0200 3.40 0.0201 4.27 0.0200 3.40 0.0201 5.77 0.0200 3.40 0.0201 5.77 0.0200 3.40 0.0201 5.77 0.0200 3.40 0.0201 6.03 0.786 0.0200 12.1 0.0201 5.77 0.0200 Feb-06-19 US:</td> <td>Field Id: SW02 SW03 Depth: 0-3 ft 0-3.5 ft Matrix: SOIL SOIL Sampled: Jan-30-19 16:50 Jan-30-19 17:00 Extracted: Feb-07-19 13:00 Feb-08-19 15:06 Feb-08-19 15:25 Units/RL: mg/kg RL mg/kg RL 0.0308 0.0200 0.0494 0.0201 10.6 0.0200 2.25 0.0201 11.06 0.0200 3.40 0.0201 11.50 0.0200 3.40 0.0201 Extracted: Feb-06-19 8:30 6.03 0.0402 11.50 0.0200 3.40 0.0201 Extracted: Feb-06-19 8:30 Feb-06-19 8:30 Analyzed: Feb-06-19 8:30 Feb-06-19 8:30 Linits/RL: mg/kg RL mg/kg RL Markits/RI: Mg/kg RL mg/kg RL Linits/RL: mg/kg RL mg/kg RL Linits/RL: mg/kg RL mg/kg RL</td> <td>Field Id: SW02 SW03 Depth: 0-3 ft 0-3.5 ft Matrix: SOIL SOIL Sampled: Jan-30-19 16:50 Jan-30-19 17:00 Extracted: Feb-07-19 13:00 Feb-07-19 13:00 Analyzed: Feb-08-19 15:06 Feb-08-19 15:25 Units/RL: mg/kg RL mg/kg RL 0.0308 0.0200 0.0494 0.0201 1.06 0.0200 2.25 0.0201 4.27 0.0399 6.03 0.0402 1.106 0.0200 3.40 0.0201 4.27 0.0399 6.03 0.0402 5.77 0.0200 3.40 0.0201 Extracted: Feb-06-19 08:30 12.1 0.0201 Extracted: Feb-06-19 10:53 Feb-06-19 08:30 Analyzed: Feb-06-19 10:53 Feb-06-19 10:50 Units/RL: mg/kg RL mg/kg RL Markigk RL mg/kg RL 10 Analyzed: Feb-05.19 10:</td> <td>Field Id: SW02 SW03 Depth: 0.3 f $0.3.5$ f Matrix: SOIL SOIL Sampled: Jan-30-19 16:00 Jan-30-19 17:00 Extracted: Feb-07-19 13:00 Feb-07-19 13:00 Feb-07-19 15:25 Units/RL: mg/kg RL mg/kg RL 0.0308 0.020 0.0494 0.0201 0.0201 0.0308 0.020 0.0202 0.22.5 0.0201 0.0308 0.020 0.0202 0.0201 0.0201 1.06 0.020 0.2328 0.0201 0.0201 4.2.7 0.0399 6.03 0.0201 0.0201 4.3.7 0.0200 3.40 0.0201 0.0201 Extracted: Feb-06-19 0.30 0.0201 0.0201 Extracted: Feb-06-19 0.30 0.0201 0.0201 Manlyzed: Feb-06-19 0.30 0.0201 0.0201 Extracted: Feb-06-19 0.30 0.0201 0.0201 Manlyzed: Feb-06-19 0.30 Feb-06-19 0.</td>	Field Id: SW02 SW03 Depth: $0-3$ ft $0-3.5$ ft Matrix: SOIL SOIL Sampled: Jan-30-19 16:50 Jan-30-19 17:00 Extracted: Feb-07-19 13:00 Feb-07-19 13:00 Analyzed: Feb-08-19 15:06 Feb-08-19 15:25 Units/RL: mg/kg RL mg/kg RL 0.0308 0.0200 0.0494 0.0201 1.06 0.0200 2.25 0.0201 0.106 0.0200 3.40 0.0201 4.27 0.0399 6.03 0.0402 1.50 0.0200 3.40 0.0201 4.27 0.0309 6.03 0.0402 1.50 0.0200 3.40 0.0201 4.27 0.0200 3.40 0.0201 5.77 0.0200 3.40 0.0201 5.77 0.0200 3.40 0.0201 5.77 0.0200 3.40 0.0201 6.03 0.786 0.0200 12.1 0.0201 5.77 0.0200 Feb-06-19 US:	Field Id: SW02 SW03 Depth: 0-3 ft 0-3.5 ft Matrix: SOIL SOIL Sampled: Jan-30-19 16:50 Jan-30-19 17:00 Extracted: Feb-07-19 13:00 Feb-08-19 15:06 Feb-08-19 15:25 Units/RL: mg/kg RL mg/kg RL 0.0308 0.0200 0.0494 0.0201 10.6 0.0200 2.25 0.0201 11.06 0.0200 3.40 0.0201 11.50 0.0200 3.40 0.0201 Extracted: Feb-06-19 8:30 6.03 0.0402 11.50 0.0200 3.40 0.0201 Extracted: Feb-06-19 8:30 Feb-06-19 8:30 Analyzed: Feb-06-19 8:30 Feb-06-19 8:30 Linits/RL: mg/kg RL mg/kg RL Markits/RI: Mg/kg RL mg/kg RL Linits/RL: mg/kg RL mg/kg RL Linits/RL: mg/kg RL mg/kg RL	Field Id: SW02 SW03 Depth: 0-3 ft 0-3.5 ft Matrix: SOIL SOIL Sampled: Jan-30-19 16:50 Jan-30-19 17:00 Extracted: Feb-07-19 13:00 Feb-07-19 13:00 Analyzed: Feb-08-19 15:06 Feb-08-19 15:25 Units/RL: mg/kg RL mg/kg RL 0.0308 0.0200 0.0494 0.0201 1.06 0.0200 2.25 0.0201 4.27 0.0399 6.03 0.0402 1.106 0.0200 3.40 0.0201 4.27 0.0399 6.03 0.0402 5.77 0.0200 3.40 0.0201 Extracted: Feb-06-19 08:30 12.1 0.0201 Extracted: Feb-06-19 10:53 Feb-06-19 08:30 Analyzed: Feb-06-19 10:53 Feb-06-19 10:50 Units/RL: mg/kg RL mg/kg RL Markigk RL mg/kg RL 10 Analyzed: Feb-05.19 10:	Field Id: SW02 SW03 Depth: 0.3 f $0.3.5$ f Matrix: SOIL SOIL Sampled: Jan-30-19 16:00 Jan-30-19 17:00 Extracted: Feb-07-19 13:00 Feb-07-19 13:00 Feb-07-19 15:25 Units/RL: mg/kg RL mg/kg RL 0.0308 0.020 0.0494 0.0201 0.0201 0.0308 0.020 0.0202 0.22.5 0.0201 0.0308 0.020 0.0202 0.0201 0.0201 1.06 0.020 0.2328 0.0201 0.0201 4.2.7 0.0399 6.03 0.0201 0.0201 4.3.7 0.0200 3.40 0.0201 0.0201 Extracted: Feb-06-19 0.30 0.0201 0.0201 Extracted: Feb-06-19 0.30 0.0201 0.0201 Manlyzed: Feb-06-19 0.30 0.0201 0.0201 Extracted: Feb-06-19 0.30 0.0201 0.0201 Manlyzed: Feb-06-19 0.30 Feb-06-19 0.

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Version: 1.%

Mike Kimmel Client Services Manager





LT Environmental, Inc., Arvada, CO

Chloride		16887-00-6	14.5	5.00	mg/kg	02.06.19 09.36		1
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3078346							
Analyst:	CHE		Date Prep:	02.06.19 08.30]	Basis: We	t Weight	
Tech:	CHE					% Moisture:		
Analytical Me	ethod: Inorganic An	ions by EPA 300]	Prep Method: E30)0P	
Lab Sample Id	d: 613224-001		Date Collec	cted: 01.30.19 11.45	:	Sample Depth: 2 ft		
Sample Id:	FS01		Matrix:	Soil	1	Date Received:02.	J1.19 12.4.	3

Analytical Method: TPH by SW8015	Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 02.04	19 17.00	В	asis: We	t Weight	
Seq Number: 3078104								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2000	15.0		mg/kg	02.04.19 22.16		1
Diesel Range Organics (DRO)	C10C28DRO	2710	15.0		mg/kg	02.04.19 22.16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	211	15.0		mg/kg	02.04.19 22.16		1
Total TPH	PHC635	4920	15.0		mg/kg	02.04.19 22.16		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	129	%	70-135	02.04.19 22.16		
o-Terphenyl		84-15-1	157	%	70-135	02.04.19 22.16	**	





LT Environmental, Inc., Arvada, CO

Sample Id:FS01Lab Sample Id:613224-001	Matrix: Soil Date Collected: 01.30.19 11.45	Date Received:02.01.19 12.45 Sample Depth: 2 ft
Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3078557	Date Prep: 02.07.19 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.328	0.100		mg/kg	02.08.19 13.15		50
Toluene	108-88-3	9.29	0.100		mg/kg	02.08.19 13.15		50
Ethylbenzene	100-41-4	6.46	0.100		mg/kg	02.08.19 13.15		50
m,p-Xylenes	179601-23-1	21.8	0.201		mg/kg	02.08.19 13.15		50
o-Xylene	95-47-6	8.17	0.100		mg/kg	02.08.19 13.15		50
Total Xylenes	1330-20-7	30.0	0.100		mg/kg	02.08.19 13.15		50
Total BTEX		46.0	0.100		mg/kg	02.08.19 13.15		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	02.08.19 13.15		
4-Bromofluorobenzene		460-00-4	247	%	70-130	02.08.19 13.15	**	





LT Environmental, Inc., Arvada, CO

Sample Id: FS02 Lab Sample Id: 613224-002		Matrix: Date Collec	Soil ted: 01.30.19 11.50		Date Received:02.01.19 12.45 Sample Depth: 2 ft			
Analytical Method: Inorganic Tech: CHE Analyst: CHE Seq Number: 3078346	Anions by EPA 300	Date Prep:	02.06.19 08.30		Prep Method: H % Moisture: Basis: N	E300P Wet Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil	
Chloride	16887-00-6	305	4.98	mg/kg	02.06.19 10.07	7	1	
Analytical Method: TPH by S Tech: ARM Analyst: ARM Seq Number: 3078104	W8015 Mod	Date Prep:	02.04.19 17.00		Prep Method: 7 % Moisture: Basis: N	TX1005P Wet Weight		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	68.7	15.0		mg/kg	02.04.19 22.36		1
Diesel Range Organics (DRO)	C10C28DRO	392	15.0		mg/kg	02.04.19 22.36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	30.3	15.0		mg/kg	02.04.19 22.36		1
Total TPH	PHC635	491	15.0		mg/kg	02.04.19 22.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	02.04.19 22.36		
o-Terphenyl		84-15-1	98	%	70-135	02.04.19 22.36		





LT Environmental, Inc., Arvada, CO

Sample Id:FS02Lab Sample Id:613224-002	Matrix: Soil Date Collected: 01.30.19 11.50	Date Received:02.01.19 12.45 Sample Depth: 2 ft
Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3078557	Date Prep: 02.07.19 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0957	0.0200		mg/kg	02.08.19 14.09		10
Toluene	108-88-3	0.0557	0.0200		mg/kg	02.08.19 14.09		10
Ethylbenzene	100-41-4	0.0202	0.0200		mg/kg	02.08.19 14.09		10
m,p-Xylenes	179601-23-1	0.213	0.0399		mg/kg	02.08.19 14.09		10
o-Xylene	95-47-6	0.344	0.0200		mg/kg	02.08.19 14.09		10
Total Xylenes	1330-20-7	0.557	0.0200		mg/kg	02.08.19 14.09		10
Total BTEX		0.729	0.0200		mg/kg	02.08.19 14.09		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	127	%	70-130	02.08.19 14.09		
4-Bromofluorobenzene		460-00-4	118	%	70-130	02.08.19 14.09		





LT Environmental, Inc., Arvada, CO

Sample Id: FS03		Matrix:	Soil		Date Received:02.	.01.19 12.4	5
Lab Sample Id: 613224-003		Date Collec	cted: 01.30.19 12.10		Sample Depth: 3 f	t	
Analytical Method: Inorganic Anions	by EPA 300				Prep Method: E3	00P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	02.06.19 08.30		Basis: We	et Weight	
Seq Number: 3078346							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.2	4.98	mg/kg	02.06.19 11.30		1

Analytical Method: TPH by SW801: Tech: ARM	5 Mod					Prep Method: TX 6 Moisture:	1005P	
Analyst: ARM		Date Pre	p: 02.04	19 17.00	E	Basis: We	t Weight	
Seq Number: 3078104								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	181	14.9		mg/kg	02.04.19 23.36		1
Diesel Range Organics (DRO)	C10C28DRO	772	14.9		mg/kg	02.04.19 23.36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	83.1	14.9		mg/kg	02.04.19 23.36		1
Total TPH	PHC635	1040	14.9		mg/kg	02.04.19 23.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	02.04.19 23.36		
o-Terphenyl		84-15-1	110	%	70-135	02.04.19 23.36		





LT Environmental, Inc., Arvada, CO

Sample Id:FS03Lab Sample Id:613224-003	Matrix: Soil Date Collected: 01.30.19 12.10	Date Received:02.01.19 12.45 Sample Depth: 3 ft
Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3078557	Date Prep: 02.07.19 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0307	0.0200		mg/kg	02.08.19 14.28		10
Toluene	108-88-3	0.718	0.0200		mg/kg	02.08.19 14.28		10
Ethylbenzene	100-41-4	0.0767	0.0200		mg/kg	02.08.19 14.28		10
m,p-Xylenes	179601-23-1	2.05	0.0400		mg/kg	02.08.19 14.28		10
o-Xylene	95-47-6	0.931	0.0200		mg/kg	02.08.19 14.28		10
Total Xylenes	1330-20-7	2.98	0.0200		mg/kg	02.08.19 14.28		10
Total BTEX		3.81	0.0200		mg/kg	02.08.19 14.28		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	122	%	70-130	02.08.19 14.28		
4-Bromofluorobenzene		460-00-4	181	%	70-130	02.08.19 14.28	**	





LT Environmental, Inc., Arvada, CO

Sample Id:	SW01		Matrix:	Soil		Date Received:02.0	01.19 12.45	5	
Lab Sample I	d: 613224-004		Date Colle	ected: 01.30.19 12.40	Sample Depth: 0 - 2 ft				
Analytical M	ethod: Inorganic Anio	ns by EPA 300				Prep Method: E30	00P		
Tech:	CHE					% Moisture:			
Analyst:	CHE		Date Prep:	02.06.19 08.30		Basis: We	t Weight		
Seq Number:	3078346								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	383	4.98	mg/kg	02.06.19 10.34		1	

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 02.04	.19 17.00	E	Basis: We	t Weight	
Seq Number: 3078104								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	02.04.19 23.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	64.8	14.9		mg/kg	02.04.19 23.56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	02.04.19 23.56	U	1
Total TPH	PHC635	64.8	14.9		mg/kg	02.04.19 23.56		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	02.04.19 23.56		
o-Terphenyl		84-15-1	106	%	70-135	02.04.19 23.56		





LT Environmental, Inc., Arvada, CO

Sample Id:SW01Lab Sample Id:613224-004	Matrix: Soil Date Collected: 01.30.19 12.40	Date Received:02.01.19 12.45 Sample Depth: 0 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3078557	Date Prep: 02.07.19 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.08.19 12.56	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.08.19 12.56	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.08.19 12.56	U	1
m,p-Xylenes	179601-23-1	0.00717	0.00400		mg/kg	02.08.19 12.56		1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.08.19 12.56	U	1
Total Xylenes	1330-20-7	0.00717	0.00200		mg/kg	02.08.19 12.56		1
Total BTEX		0.00717	0.00200		mg/kg	02.08.19 12.56		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	02.08.19 12.56		
1,4-Difluorobenzene		540-36-3	112	%	70-130	02.08.19 12.56		





LT Environmental, Inc., Arvada, CO

Sample Id:	FS04		Matrix:	Soil]	Date Received:02	.01.19 12.4	5	
Lab Sample I	Lab Sample Id: 613224-005			ected: 01.30.19 16.20	Sample Depth: 3.5 ft				
Analytical M	ethod: Inorganic Anio	ns by EPA 300]	Prep Method: E3	00P		
Tech:	CHE					% Moisture:			
Analyst:	CHE		Date Prep:	02.06.19 08.30]	Basis: We	et Weight		
Seq Number:	3078346								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	82.7	4.98	mg/kg	02.06.19 10.41		1	

Analytical Method: TPH by SW8015	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 02.04.	19 17.00	В	asis: Wet	Weight	
Seq Number: 3078104								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	3230	15.0		mg/kg	02.05.19 00.16		1
Diesel Range Organics (DRO)	C10C28DRO	2410	15.0		mg/kg	02.05.19 00.16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	161	15.0		mg/kg	02.05.19 00.16		1
Total TPH	PHC635	5800	15.0		mg/kg	02.05.19 00.16		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	122	%	70-135	02.05.19 00.16		
o-Terphenyl		84-15-1	129	%	70-135	02.05.19 00.16		





LT Environmental, Inc., Arvada, CO

Sample Id:FS04Lab Sample Id:613224-005	Matrix: Soil Date Collected: 01.30.19 16.20	Date Received:02.01.19 12.45 Sample Depth: 3.5 ft
Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3078557	Date Prep: 02.07.19 13.00	Prep Method:SW5030B% Moisture:Basis:Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.81	0.402		mg/kg	02.08.19 15.44		200
Toluene	108-88-3	28.6	0.402		mg/kg	02.08.19 15.44		200
Ethylbenzene	100-41-4	14.9	0.402		mg/kg	02.08.19 15.44		200
m,p-Xylenes	179601-23-1	93.6	0.803		mg/kg	02.08.19 15.44		200
o-Xylene	95-47-6	13.4	0.402		mg/kg	02.08.19 15.44		200
Total Xylenes	1330-20-7	107	0.402		mg/kg	02.08.19 15.44		200
Total BTEX		152	0.402		mg/kg	02.08.19 15.44		200
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	158	%	70-130	02.08.19 15.44	**	
1,4-Difluorobenzene		540-36-3	117	%	70-130	02.08.19 15.44		





LT Environmental, Inc., Arvada, CO

Sample Id:	FS03		Matrix:	Soil]	Date Received:02.	01.19 12.45	5
Lab Sample I	d: 613224-006		Date Collec	eted: 01.30.19 16.30	1	Sample Depth: 2 ft		
Analytical Me	ethod: Inorganic Anio	ons by EPA 300]	Prep Method: E30	00P	
Tech:	CHE				(% Moisture:		
Analyst:	CHE		Date Prep:	02.06.19 08.30]	Basis: We	t Weight	
Seq Number:	3078346							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	220	5.00	mg/kg	02.06.19 10.47		1

Analytical Method: TPH by SW8015	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 02.04	19 17.00	В	asis: We	t Weight	
Seq Number: 3078104								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	747	15.0		mg/kg	02.05.19 00.36		1
Diesel Range Organics (DRO)	C10C28DRO	956	15.0		mg/kg	02.05.19 00.36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	69.0	15.0		mg/kg	02.05.19 00.36		1
Total TPH	PHC635	1770	15.0		mg/kg	02.05.19 00.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	123	%	70-135	02.05.19 00.36		
o-Terphenyl		84-15-1	105	%	70-135	02.05.19 00.36		





LT Environmental, Inc., Arvada, CO

Sample Id:FS03Lab Sample Id:613224-006	Matrix: Soil Date Collected: 01.30.19 16.30	Date Received:02.01.19 12.45 Sample Depth: 2 ft
Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3078557	Date Prep: 02.07.19 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0920	0.0202		mg/kg	02.08.19 14.47		10
Toluene	108-88-3	3.18	0.0202		mg/kg	02.08.19 14.47		10
Ethylbenzene	100-41-4	0.310	0.0202		mg/kg	02.08.19 14.47		10
m,p-Xylenes	179601-23-1	19.3	0.400		mg/kg	02.08.19 16.03	D	100
o-Xylene	95-47-6	3.21	0.0202		mg/kg	02.08.19 14.47		10
Total Xylenes	1330-20-7	22.5	0.0202		mg/kg	02.08.19 16.03		100
Total BTEX		26.1	0.0202		mg/kg	02.08.19 16.03		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	377	%	70-130	02.08.19 14.47	**	
1,4-Difluorobenzene		540-36-3	123	%	70-130	02.08.19 14.47		





LT Environmental, Inc., Arvada, CO

Sample Id:	SW02		Matrix:	Soil		Date Received:02.	01.19 12.45	5
Lab Sample I	Lab Sample Id: 613224-007			ected: 01.30.19 16.50		3 ft		
Analytical M	ethod: Inorganic Anio	ns by EPA 300				Prep Method: E30)0P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prepa	: 02.06.19 08.30		Basis: We	t Weight	
Seq Number:	3078346							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	32.2	4.96	mg/kg	02.06.19 10.53		1

Analytical Method: TPH by SW8015	Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 02.05	.19 10.00	В	Basis: We	et Weight	
Seq Number: 3078222								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	359	14.9		mg/kg	02.05.19 15.15		1
Diesel Range Organics (DRO)	C10C28DRO	1180	14.9		mg/kg	02.05.19 15.15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	122	14.9		mg/kg	02.05.19 15.15		1
Total TPH	PHC635	1660	14.9		mg/kg	02.05.19 15.15		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	120	%	70-135	02.05.19 15.15		
o-Terphenyl		84-15-1	118	%	70-135	02.05.19 15.15		





LT Environmental, Inc., Arvada, CO

Sample Id:SW02Lab Sample Id:613224-007	Matrix: Soil Date Collected: 01.30.19 16.50	Date Received:02.01.19 12.45 Sample Depth: 0 - 3 ft
Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3078557	Date Prep: 02.07.19 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0308	0.0200		mg/kg	02.08.19 15.06		10
Toluene	108-88-3	1.06	0.0200		mg/kg	02.08.19 15.06		10
Ethylbenzene	100-41-4	0.998	0.0200		mg/kg	02.08.19 15.06		10
m,p-Xylenes	179601-23-1	4.27	0.0399		mg/kg	02.08.19 15.06		10
o-Xylene	95-47-6	1.50	0.0200		mg/kg	02.08.19 15.06		10
Total Xylenes	1330-20-7	5.77	0.0200		mg/kg	02.08.19 15.06		10
Total BTEX		7.86	0.0200		mg/kg	02.08.19 15.06		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	121	%	70-130	02.08.19 15.06		
4-Bromofluorobenzene		460-00-4	226	%	70-130	02.08.19 15.06	**	





LT Environmental, Inc., Arvada, CO

Sample Id:	SW03		Matrix:	Soil		Date Received:02	.01.19 12.4	5		
Lab Sample Id	l: 613224-008		Date Colle	ected: 01.30.19 17.00		Sample Depth: 0 - 3.5 ft				
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method: E3	00P			
Tech:	CHE					% Moisture:				
Analyst:	CHE		Date Prep:	02.06.19 08.30		Basis: We	et Weight			
Seq Number:	3078346									
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Chloride		16887-00-6	342	4.99	mg/kg	02.06.19 11.05		1		

Analytical Method: TPH by SW8015 Tech: ARM	Mod				Prep Method: TX1005P % Moisture:					
Analyst: ARM		Date Prep: 02.05.19 10.00			Basis: Wet Weight					
Seq Number: 3078222										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Gasoline Range Hydrocarbons (GRO)	PHC610	500	15.0		mg/kg	02.05.19 15.35		1		
Diesel Range Organics (DRO)	C10C28DRO	897	15.0		mg/kg	02.05.19 15.35		1		
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	69.4	15.0		mg/kg	02.05.19 15.35		1		
Total TPH	PHC635	1470	15.0		mg/kg	02.05.19 15.35		1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	128	%	70-135	02.05.19 15.35				
o-Terphenyl		84-15-1	128	%	70-135	02.05.19 15.35				





LT Environmental, Inc., Arvada, CO

Sample Id:SW03Lab Sample Id:613224-008	Matrix: Soil Date Collected: 01.30.19 17.00	Date Received:02.01.19 12.45 Sample Depth: 0 - 3.5 ft
Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3078557	Date Prep: 02.07.19 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0494	0.0201		mg/kg	02.08.19 15.25		10
Toluene	108-88-3	2.25	0.0201		mg/kg	02.08.19 15.25		10
Ethylbenzene	100-41-4	0.328	0.0201		mg/kg	02.08.19 15.25		10
m,p-Xylenes	179601-23-1	6.03	0.0402		mg/kg	02.08.19 15.25		10
o-Xylene	95-47-6	3.40	0.0201		mg/kg	02.08.19 15.25		10
Total Xylenes	1330-20-7	9.43	0.0201		mg/kg	02.08.19 15.25		10
Total BTEX		12.1	0.0201		mg/kg	02.08.19 15.25		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	122	%	70-130	02.08.19 15.25		
4-Bromofluorobenzene		460-00-4	287	%	70-130	02.08.19 15.25	**	



Flagging Criteria



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- teria
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Cli	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





LT Environmental, Inc.

Federal G Gas Com 1

Analytical Method:	Inorganic Anions b	y EPA 300						Pre	ep Method	l: E30	00P	
Seq Number:	3078346		Matrix: Solid				Date Prep:				06.19	
MB Sample Id:	7671131-1-BLK		LCS San	nple Id:	7671131-	I-BKS		LCSE	Sample I	d: 767	71131-1-BSD	
	MD	a	TOO							.		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD F	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3078346	Matrix: Soil					Date Prep: 02.06.19					
Parent Sample Id:	613224-001	MS Sample Id: 613224-001 S MSD Sample Id:					Id: 613	224-001 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	14.5	250	264	100	250	94	90-110	5	20	mg/kg	02.06.19 09:42	

Analytical Method:	Inorganic Anions by						P	rep Metho	od: E30	0P		
Seq Number:	3078346	Matrix: Soil					Date Prep: 02.06.19					
Parent Sample Id:	613224-008		MS Sar	Sample Id: 613224-008 S MSD Sample Id:					e Id: 613	613224-008 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	342	250	574	93	605	105	90-110	5	20	mg/kg	02.06.19 11:11	

Analytical Method:	Prep Method: TX1005P												
Seq Number:	3078104			Matrix: Solid				Date Prep: 02.04.19					
MB Sample Id:	7671082-1	I-BLK		LCS Sample Id: 7671082-1-BKS LCSD Sample Id: 7671082-1-BS							1082-1-BSD		
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<8.00	1000	826	83	878	88	70-135	6	20	mg/kg	02.04.19 21:37	
Diesel Range Organics	(DRO)	<8.13	1000	924	92	972	97	70-135	5	20	mg/kg	02.04.19 21:37	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		120		1	19		126		7	0-135	%	02.04.19 21:37	
o-Terphenyl		123		1	06		121		7	0-135	%	02.04.19 21:37	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.



BORATORIES

LT Environmental, Inc.

Federal G Gas Com 1

Analytical Method: Seq Number:	TPH by S 3078222	W8015 M	od		Solid	Prep Method: TX1005P Date Prep: 02.05.19							
MB Sample Id:	7671160-	1-BLK		LCS Sample Id: 7671160-1-BKS LCSD Sample Id: 7671160-1-BS							1160-1-BSD		
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocart	oons (GRO)	<8.00	1000	851	85	878	88	70-135	3	20	mg/kg	02.05.19 12:29	
Diesel Range Organics	(DRO)	<8.13	1000	953	95	978	98	70-135	3	20	mg/kg	02.05.19 12:29	
Surrogate		MB %Rec	MB Flag			LCS Flag	LCSI %Re	-	_	imits	Units	Analysis Date	
1-Chlorooctane		91		1	23		127		7	0-135	%	02.05.19 12:29	
o-Terphenyl		93		1	19		122		7	0-135	%	02.05.19 12:29	

Analytical Method:TPH by SW8015 ModSeq Number:3078104					Soil	Prep Method: TX1005P Date Prep: 02.04.19							
Parent Sample Id: 613224-002			MS Sample Id: 613224-002 S			MSD Sample Id: 613224-002 SD							
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP	D RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	68.7	997	934	87	954	89	70-135	2	20	mg/kg	02.04.19 22:56	
Diesel Range Organics	(DRO)	392	997	1270	88	1240	85	70-135	2	20	mg/kg	02.04.19 22:56	
Surrogate		MS %Rec		MS MSD Flag %Re					Units Analysis Date				
1-Chlorooctane		126		128				70-135	%	02.04.19 22:56			
o-Terphenyl				1	25		126			70-135	%	02.04.19 22:56	

Analytical Method:TPH by SW8015 ModSeq Number:3078222				Matrix: Soil				Prep Method: TX1005P Date Prep: 02.05.19						
Parent Sample Id: 613229-021				MS Sample Id: 613229-021 S			MSD Sample Id: 613229-021 SD							
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarb	ons (GRO)	<7.99	999	927	93	923	92	70-135	0	20	mg/kg	02.05.19 13:54		
Diesel Range Organics	(DRO)	<8.12	999	1070	107	1060	106	70-135	1	20	mg/kg	02.05.19 13:54		
Surrogate		MS %Rec		MS Flag	1100		Limits		Units	Analysis Date				
1-Chlorooctane				1	21		130			70-135	%	02.05.19 13:54		
o-Terphenyl				1	24		127			70-135	%	02.05.19 13:54		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.



ATORIES

QC Summary 613224

LT Environmental, Inc.

Federal G Gas Com 1

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3078557 7671351-1-BLK	Matrix: Solid LCS Sample Id: 7671351-1-BKS				Prep Method: SW5030B Date Prep: 02.07.19 LCSD Sample Id: 7671351-1-BSD						
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	ORPD Limi	it Units	Analysis Date	Flag
Benzene	< 0.000387	0.101	0.114	113	0.110	110	70-130	4	35	mg/kg	02.08.19 05:43	
Toluene	< 0.000458	0.101	0.0986	98	0.0950	95	70-130	4	35	mg/kg	02.08.19 05:43	
Ethylbenzene	< 0.000568	0.101	0.0943	93	0.0900	90	70-130	5	35	mg/kg	02.08.19 05:43	
m,p-Xylenes	< 0.00102	0.201	0.185	92	0.176	88	70-130	5	35	mg/kg	02.08.19 05:43	
o-Xylene	< 0.000346	0.101	0.0945	94	0.0905	91	70-130	4	35	mg/kg	02.08.19 05:43	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	107		1	08		108			70-130	%	02.08.19 05:43	
4-Bromofluorobenzene	105		1	04		105			70-130	%	02.08.19 05:43	

Analytical Method:	Method: BTEX by EPA 8021B							Prep Method: SW5030B					
Seq Number:	3078557	Matrix: Soil					Date Prep: 02.07.19						
Parent Sample Id:	613319-001	MS San	nple Id:	613319-001 S			MSD Sample Id: 613319-001 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Benzene	0.000561	0.0998	0.0587	58	0.0531	52	70-130	10	35	mg/kg	02.08.19 06:22	Х	
Toluene	0.0107	0.0998	0.0293	19	0.0232	12	70-130	23	35	mg/kg	02.08.19 06:22	Х	
Ethylbenzene	0.00492	0.0998	0.0430	38	0.0490	44	70-130	13	35	mg/kg	02.08.19 06:22	Х	
m,p-Xylenes	0.00865	0.200	0.0404	16	0.0379	14	70-130	6	35	mg/kg	02.08.19 06:22	Х	
o-Xylene	0.0452	0.0998	0.0466	1	0.0553	10	70-130	17	35	mg/kg	02.08.19 06:22	Х	
Surrogate				1S Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date		
1,4-Difluorobenzene			1	06		106		7	0-130	%	02.08.19 06:22		
4-Bromofluorobenzene			1	13		120		7	0-130	%	02.08.19 06:22		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Received by OCD: 7/26/202						Page 139 of 521
1 1 1 1 1 1 1 1 1 1 1 1 1 1	Project Number: 0 P.O. Number: 0 Sampler's Name: U_{ij} Sampler's Name: U_{ij} Sampler's Name: U_{ij} Temperature (°C): Z_{ij} Received Intact: Z_{ij} Cooler Custody Seals: Y_{ij} Sample Custody Seals: Y_{ij} FS 0 2 F_{ij} F_{ij} Z_{ij} F_{ij} $Z_$	Project Name:	City, State ZIP: Phone:	Company Name: Address:	Project Manager:	X
the cost of samples till be applied to a	$\begin{array}{c cccc} 0.34818011\\ \hline 0.3481801\\ \hline 0.348180\\ \hline 0.348180\\ \hline 0.348180\\ \hline 0.34816020:\\\hline 0 200.816020:\\\hline 0 200$	Eederal 6 Gas Con	Midland, TX 79705 432.704.5178			
and shall not assume any responsibility for teh project <u>and a sharge</u> of 55 for each samp Received by: (Signature)	Routine Rush: Sd No Wet loe: Correction Factor: Correction Factor: Total Containers: De De De I/I : S o J J J Correction Factor: Correction Factor	Dry / Turn Around	City, State ZIP Email: אלא גא לי	Permian office Company Name Address:	Bill to: (ir different)	Houston,TX (281) 240 Midland,TX (432-70 Hobbs,NM (575-392-7550) Phoe
rany losses or expenses incurred by ole submitted to Xenco, but not analy pate/Time 1/3//9/2012 1/3//9/2022 2/202	Image: Second state sta		IP: Midland, Tx .	ame: LIGIV, Conner 33 00 N 4"	rent) Sand Ad	Chain of Custody Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-333 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atjanta, GA (770-449-8800) Tampa, FL (8
rhe client if such losses are due to circur zed. These terms will be enforced unless Refifinquished by: Signature)	ନ ଜୁନ୍ମ କରି	ANALYSIS REQUEST	79735 rballel Deller, Lon	St.	for Brk	Custody 0300 San Antonio, TX (210) 509-3334 85-3443 Lubbock, TX (806)794-1296 <u>1ta, GA (</u> 770-449-8800) <u>T</u> ampa, FL (813-620-2000)
rractors. It assigns standard terms and conditions insess are due to circumstances beyond the control will be enforced unless previously negotiated. ed by: (Signature) Received by Munusby	Mg Mn Mo Ni K Se Ag Ti U	ST	Reporting:Level IIevel III Deliverables: EDD	<u> </u>		
a conditions na the control plated. Received by: (Signature) weight Culture weight Culture received by: (Signature)		Work	II ST/UST LRP ADaPT Dother:	rownfields	Somm	Work Order No: (0)2
Date/Time //3//19//9.146	TAT starts the day received by the lab, if received by 4:30pm Sample Comments	Work Order Notes		perfund		5274

Released to Imaging: 8/17/2023 9:01:57 AM

Final 1.000

Received by OCD: 7/26/2023 9:27:22 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 02/01/2019 12:45:00 PM Temperature Measuring device used : R8 Work Order #: 613224 Sample Receipt Checklist #1 *Temperature of cooler(s)? 3.5 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No

#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

#18 Water VOC samples have zero headspace?

Katie Lowe

Date: 02/01/2019

N/A

Comments

Checklist reviewed by:

fession kramer

Jessica Kramer

Date: 02/01/2019



APPENDIX E

Photographic Log

Released to Imaging: 8/17/2023 9:01:57 AM








APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fee

Federal G Gas Com #001

Work Order: E303118

Job Number: 01058-0007

Received: 3/29/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/23

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: 4/4/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Federal G Gas Com #001 Workorder: E303118 Date Received: 3/29/2023 6:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2023 6:45:00AM, 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

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		Sample Sum	illal y		
WPX Energy - Carlsbad		Project Name:	Federal G Gas Con	n #001	Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Reporteu.
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		04/04/23 10:07
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
	····· •		···· F ···		
SW01 0 - 4'	E303118-01A	Solid	03/27/23	03/29/23	Glass Jar, 2 oz.
SW02 0 - 4'	E303118-02A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
SW03 0 - 4'	E303118-03A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
SW04 0 - 4'	E303118-04A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.



		imple D	uu				
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas	Com #0	01		
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno)			4/4/2023 10:07:45AM
	S	SW01 0 - 4'					
		E303118-01					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Benzene	ND	0.0250		1	03/29/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/29/23	03/30/23	
Toluene	ND	0.0250		1	03/29/23	03/30/23	
p-Xylene	ND	0.0250		1	03/29/23	03/30/23	
o,m-Xylene	ND	0.0500		1	03/29/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		96.6 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		96.6 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130		03/29/23	03/30/23	
urrogate: Toluene-d8		105 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0		1	03/29/23	03/30/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/30/23	
Surrogate: n-Nonane		100 %	50-200		03/29/23	03/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313041
Chloride	ND	20.0		1	03/29/23	03/30/23	



		ampie D	uu				
WPX Energy - Carlsbad	Project Name		ral G Gas	Com #0	01		
5315 Buena Vista Dr Carlsbad NM, 88220	Project Numb Project Manag		58-0007 ert Moren	~			Reported: 4/4/2023 10:07:45AM
Carisbad NMI, 88220	Project Manag	ger: Gilb	en moren	0			4/4/2023 10.07.45AM
		SW02 0 - 4'					
		E303118-02					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2313031
Benzene	ND	0.0250		1	03/29/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/29/23	03/30/23	
Toluene	ND	0.0250		1	03/29/23	03/30/23	
p-Xylene	ND	0.0250		1	03/29/23	03/30/23	
o,m-Xylene	ND	0.0500		1	03/29/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	JL		Batch: 2313038
Diesel Range Organics (C10-C28)	45.8	25.0		1	03/29/23	03/30/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/30/23	
Surrogate: n-Nonane		105 %	50-200		03/29/23	03/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313041
Chloride	ND	20.0		1	03/29/23	03/30/23	



		impic D					
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numbe	r: 0105	eral G Gas 58-0007)1		Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moreno	D			4/4/2023 10:07:45AM
	S	SW03 0 - 4'					
]	E303118-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Benzene	ND	0.0250		1	03/29/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/29/23	03/30/23	
Toluene	ND	0.0250		1	03/29/23	03/30/23	
p-Xylene	ND	0.0250		1	03/29/23	03/30/23	
o,m-Xylene	ND	0.0500		1	03/29/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		98.5 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		98.5 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0		1	03/29/23	03/30/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/30/23	
Surrogate: n-Nonane		106 %	50-200		03/29/23	03/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313041
Chloride	165	20.0		1	03/29/23	03/30/23	



		mpic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #00	1		
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moreno)			4/4/2023 10:07:45AM
	S	W04 0 - 4'					
]	E303118-04					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313031
Benzene	ND	0.0250		1	03/29/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/29/23	03/30/23	
Toluene	ND	0.0250		1	03/29/23	03/30/23	
p-Xylene	ND	0.0250		1	03/29/23	03/30/23	
p,m-Xylene	ND	0.0500		1	03/29/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		98.9 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		98.9 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		03/29/23	03/30/23	
urrogate: Toluene-d8		106 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	IL.		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0		1	03/29/23	03/30/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/30/23	
Surrogate: n-Nonane		106 %	50-200		03/29/23	03/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	BA		Batch: 2313041
Chloride	139	20.0		1	03/29/23	03/30/23	



QC Summary Data

WPX Energy - Carlsbad		Project Name:	Fe	deral G Gas G	Com #001				Reported:
5315 Buena Vista Dr		•	01	058-0007					ineporteu.
Carlsbad NM, 88220		Project Manager:	Gi	lbert Moreno					4/4/2023 10:07:45AM
S315 Buena Visita Dr Carlsbad NM, 88220 Project Number: Project Manager: 01058-0007 Gilbert Moreno 44/2023 10.07.457 Volatile Organic Compunds by EPA 8260B Analyst: IV Analyte Result mg/kg Result mg/kg Source mg/kg Result mg/kg Result mg/		Analyst: IY							
Analyte	Result		•		Rec		RPD		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313031-BLK1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene		0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
LCS (2313031-BS1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Benzene	2.31	0.0250	2.50		92.3	70-130			
Ethylbenzene		0.0250							
p-Xylene	2.35	0.0250							
o,m-Xylene									
Total Xylenes	7.00	0.0250							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.562		0.500		112	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
LCS Dup (2313031-BSD1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Benzene	2.33	0.0250	2.50		93.2	70-130	0.992	23	
Ethylbenzene		0.0250	2.50		94.6				
Toluene		0.0250							
p-Xylene		0.0250							
p,m-Xylene		0.0500							
Total Xylenes	7.14	0.0250	7.50		95.2		2.04	27	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.580		0.500		116	70-130			
	0.512		0.500			70-130			



QC Summary Data

		QU N	u						
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(Federal G Gas (01058-0007 Gilbert Moreno					Reported: 4/4/2023 10:07:45AM
	Noi	nhalogenated (Organic	s by EPA 80	15D - Gl	RO			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
Blank (2313031-BLK1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
LCS (2313031-BS2)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.568		0.500		114	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS Dup (2313031-BSD2)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.7	70-130	3.80	20	
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.574		0.500		115	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

		$\chi \in \mathbb{R}^{n}$		ary Date	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas C 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					4/4/2023 10:07:45AM
	Nonh	alogenated Org	anics by	y EPA 8015E) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313038-BLK1)							Prepared: 0	3/29/23 A	Analyzed: 03/29/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	50-200			
LCS (2313038-BS1)							Prepared: 0	3/29/23 A	Analyzed: 03/29/23
Diesel Range Organics (C10-C28)	174	25.0	250		69.5	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			
Matrix Spike (2313038-MS1)				Source:	E303114-	02	Prepared: 0	3/29/23 A	Analyzed: 03/29/23
Diesel Range Organics (C10-C28)	186	25.0	250	ND	74.2	38-132			
Surrogate: n-Nonane	49.4		50.0		98.7	50-200			
Matrix Spike Dup (2313038-MSD1)				Source:	E303114-	02	Prepared: 0	3/29/23 A	Analyzed: 03/29/23
Diesel Range Organics (C10-C28)	171	25.0	250	ND	68.3	38-132	8.32	20	
Surrogate: n-Nonane	50.1		50.0		100	50-200			



QC Summary Data

		L L		•					
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					4/4/2023 10:07:45AM
		Anions	by EPA	300.0/9056	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313041-BLK1)							Prepared: 0	3/29/23	Analyzed: 03/30/23
Chloride	ND	20.0							
LCS (2313041-BS1)							Prepared: 0	3/29/23	Analyzed: 03/30/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2313041-MS1)				Source:	E303109-2	21	Prepared: 02	3/29/23	Analyzed: 03/30/23
Chloride	285	20.0	250	22.4	105	80-120			
Matrix Spike Dup (2313041-MSD1)				Source:	E303109-2	21	Prepared: 0	3/29/23	Analyzed: 03/30/23
Chloride	282	20.0	250	22.4	104	80-120	0.923	20	

QC Summary Report Comment:

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



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	04/04/23 10:07

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.



Release Project Information

			ian Energ				Bill To				ab Us	A MARKED AND A MARK					TAT EPA Progra			
1		Federal C					ention: Jim Raley		Lab W			100000000000000000000000000000000000000	Num			2D	3D	Standard	CWA	SDWA
		Manager:				and the second sec	dress: 5315 Buena Vista Dr.		E3C	3118	5	bic	58	i cari	7			5 Day TAT		
		3122 Nat	A STATE OF A STATE OF A				y, State, Zip: Carlsbad, NM, 882	20				Analy	sis and	Meth	bc					RCRA
		te, Zip: Ca		M, 88220)	Pho	one: 575-885-7502			þλ		1200	15							1
		32-541-7	ALC: N. W. M. Harrison and Street	A. S. A.		Em	ail: jim.raley@dvn.com			ORO				24					State	
		evon-tean	A DE LE	and the second state of th		Cos	t Center: 1061164701			RO/	1	0		0.0	5			NM CO	UT AZ	TX
	Collecte	by: Gilb	ert Morei	rt Moreno			Incident ID: nAB1428733041		ft)	a/o	802	826	601(e 30	MN	¥				
	Time Sampled	Date Sampled	Matrix	No. of Containers	1		Sample ID	Lab Number	Depth(ft)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC			Remarks	
	15:00	3.27.23	S	1	1		SW01	1	0-4'						x					
	15:10	3.27.23	S	1		SW02			0-4'						X					
	15:20	3.27.23	S	1			SW03	3	0-4'	(X					
	15:30	3.27.23	S	1	1-		SW04	4	0-4'						X					
		al Instruc	tions:			27.23												ceived on ice the da		
d	late or time	of collection	is considere	d fraud and	may be ground	is for legal actio		ireno							an avg te	emp abo	ve 0 but	less than 6 °C on sub		
	Cig	d by: (Sign:	X		28.23	ime 09:00	Received by: (Signature)	Date 3-28-	23	Time 0900 Time	5	Rec	eived	on ice		Tab U	lse Or N	ily		
	mich	uished by: (Signature) Date Time Received by: (Signature) ULL 228-23 1600 Anenge fer uished by: (Signature) Date Time Received by: (Signature)		Date 328	23	Time	>	<u>T1</u>			<u>T2</u>		_	<u></u> <u>T3</u>						
	Lor	enst	lei	3-2	8-23	2300	Jun Kon	63/24	1 1	6:45			G Tem		4.0					
					Aqueous, O - O		V*			g - glass,									enable of t	hashaus
							other arrangements are made. Hazar with this COC. The liability of the labo								cliente	expens	e. The	e report for the	analysis of t	ne above

Envirotech Analytical Laboratory

Client:	WPX Energy - Carlsbad	Date Received:	03/29/23	06:45	Work Order ID:	E303118
Phone:	(539) 573-4018	Date Logged In:	03/28/23	15:02	Logged In By:	Caitlin Christian
Email:		Due Date:		17:00 (4 day TAT)		
[~] hain o	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location mate	h the COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes	Currier. <u>Courier</u>		
	all samples received within holding time?	•	Yes			
	Note: Analysis, such as pH which should be conducted in t				Commen	ts/Resolution
G 1	i.e, 15 minute hold time, are not included in this disucssion	1.			Commen	ts/ Resolution
	Turn Around Time (TAT) the COC indicate standard TAT, or Expedited TAT?		Yes			
6. Dia th Sample	•		105			
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
•	ne sample(s) received intact, i.e., not broken?					
	e custody/security seals present?		Yes			
	s, were custody/security seals intact?		No			
-	• •	- (0) 200	NA			
12. was t	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are a minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample t	emperature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containe	ers collected?	Yes			
Field La						
	e field sample labels filled out with the minimum infor Sample ID?	mation:	Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	Preservation					
	s the COC or field labels indicate the samples were pre	served?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved me	etals?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase		No			
27. If ye	s, does the COC specify which phase(s) is to be analyz	red?	NA			
Subcont	ract Laboratory					
28. Are s	samples required to get sent to a subcontract laboratory	/?	No			
A A 1 17	a subcontract laboratory specified by the client and if s	1 0	NA	Subcontract Lab: NA		

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



envirotech Inc.

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

structions	s: Please take note of any NO checkmarks.	Sample	Receipt	Checklist (Sl	RC)		
we receiv	e no response concerning these items within 24 hours of the d	late of this not	ice, all the	samples will be	analyzed as rec	juested.	
Client:	WPX Energy - Carlsbad Da	te Received:	03/30/23	07:00		Work Order ID:	E303127
Phone:	(539) 573-4018 Da	te Logged In:	03/29/23	15:11		Logged In By:	Caitlin Christian
Email:	devon-team@ensolum.com Du	e Date:	04/05/23	3 17:00 (4 day TA	AT)		
Chain o	of Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match t	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrie	r: <u>Courier</u>		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	Curre	<u>countra</u>		
	all samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in the	field,				Common	ts/Desolution
	i.e, 15 minute hold time, are not included in this disucssion.					Commen	ts/Resolution
	Turn Around Time (TAT)						
	ne COC indicate standard TAT, or Expedited TAT?		Yes				
Sample							
	a sample cooler received?		Yes				
•	, was cooler received in good condition?		Yes				
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If ye	es, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling	eived w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample tem	nperature: <u>4</u> °	<u>°C</u>				
<u>Sample</u>	Container						
	aqueous VOC samples present?		No				
15. Are '	VOC samples collected in VOA Vials?		NA				
16. Is the	e 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 1	non-VOC samples collected in the correct containers?		Yes				
19. Is the	e appropriate volume/weight or number of sample containers	collected?	Yes				
Field La	<u>abel</u>						
	e field sample labels filled out with the minimum informa	ation:					
	Sample ID?		Yes				
	Date/Time Collected? Collectors name?		Yes				
			No				
-	<u>Preservation</u> s the COC or field labels indicate the samples were prese	rved?	No				
	sample(s) correctly preserved?		NA				
	b filteration required and/or requested for dissolved meta	ls?	No				
		10.	INU				
	nase Sample Matrix						
	s the sample have more than one phase, i.e., multiphase?	10	No				
	es, does the COC specify which phase(s) is to be analyzed	17	NA				
	tract Laboratory						
28. Are s	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		
<u>Client l</u>	Instruction						

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fe

Federal G Gas Com #001

Work Order: E303127

Job Number: 01058-0007

Received: 3/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/5/23

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: 4/5/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Federal G Gas Com #001 Workorder: E303127 Date Received: 3/30/2023 7:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/30/2023 7:00:00AM, 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

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West Texas Midland/Odessa Area 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 Project Name: Federal G Gas Com #001							
	Project Name: Project Number: Project Manager:	Federal G Gas Cor 01058-0007 Gilbert Moreno	n #001	Reported: 04/05/23 08:51				
Lab Sample ID	Matrix	Sampled	Received	Container				
E303127-01A	Soil	03/27/23	03/30/23	Glass Jar, 4 oz.				
E303127-02A	Soil	03/27/23	03/30/23	Glass Jar, 4 oz.				
E303127-03A	Soil	03/27/23	03/30/23	Glass Jar, 4 oz.				
E303127-04A	Soil	03/27/23	03/30/23	Glass Jar, 4 oz.				
E303127-05A	Soil	03/27/23	03/30/23	Glass Jar, 4 oz.				
E303127-06A	Soil	03/27/23	03/30/23	Glass Jar, 2 oz.				
E303127-07A	Soil	03/27/23	03/30/23	Glass Jar, 2 oz.				
	E303127-01A E303127-02A E303127-03A E303127-04A E303127-05A E303127-06A	Project Number: Project Manager:Lab Sample IDMatrixE303127-01ASoilE303127-02ASoilE303127-03ASoilE303127-04ASoilE303127-05ASoilE303127-06ASoil	Project Number: Project Manager: 01058-0007 Gilbert Moreno Lab Sample ID Matrix Sampled E303127-01A Soil 03/27/23 E303127-02A Soil 03/27/23 E303127-03A Soil 03/27/23 E303127-04A Soil 03/27/23 E303127-05A Soil 03/27/23 E303127-06A Soil 03/27/23	Project Number: Project Manager: 01058-0007 Gilbert Moreno Lab Sample ID Matrix Sampled Received E303127-01A Soil 03/27/23 03/30/23 E303127-02A Soil 03/27/23 03/30/23 E303127-02A Soil 03/27/23 03/30/23 E303127-03A Soil 03/27/23 03/30/23 E303127-04A Soil 03/27/23 03/30/23 E303127-05A Soil 03/27/23 03/30/23 E303127-06A Soil 03/27/23 03/30/23				



	S	Sample D	ata			
WPX Energy - Carlsbad	Project Name	e: Fede	eral G Gas C	Com #001		
5315 Buena Vista Dr	Project Numl	ber: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Mana	ager: Gilb	ert Moreno			4/5/2023 8:51:33AM
		FS01 4'				
		E303127-01				
		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2313052
Benzene	ND	0.0250	1	03/30/23	03/30/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/30/23	
Toluene	ND	0.0250	1	03/30/23	03/30/23	
p-Xylene	ND	0.0250	1	03/30/23	03/30/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/30/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		91.5 %	70-130	03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	03/30/23	03/30/23	
Surrogate: Toluene-d8		104 %	70-130	03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: SL		Batch: 2313052
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		91.5 %	70-130	03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	03/30/23	03/30/23	
Surrogate: Toluene-d8		104 %	70-130	03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: JL		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/30/23	04/01/23	
Dil Range Organics (C28-C36)	ND	50.0	1	03/30/23	04/01/23	
Surrogate: n-Nonane		98.5 %	50-200	03/30/23	04/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2313060
Chloride	ND	20.0	1	03/30/23	03/31/23	



		ample D	uu				
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas	Com #0	01		
5315 Buena Vista Dr	Project Numb	er: 0105	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moren	4/5/2023 8:51:33AM			
		FS02 4'					
		E303127-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: SL			Batch: 2313052
Benzene	ND	0.0250		1	03/30/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/30/23	03/30/23	
Toluene	ND	0.0250		1	03/30/23	03/30/23	
p-Xylene	ND	0.0250		1	03/30/23	03/30/23	
o,m-Xylene	ND	0.0500		1	03/30/23	03/30/23	
Fotal Xylenes	ND	0.0250		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		90.8 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		03/30/23	03/30/23	
Surrogate: Toluene-d8		102 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL			Batch: 2313052
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		90.8 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		03/30/23	03/30/23	
urrogate: Toluene-d8		102 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2313051
Diesel Range Organics (C10-C28)	391	25.0		1	03/30/23	04/01/23	
Dil Range Organics (C28-C36)	183	50.0		1	03/30/23	04/01/23	
Surrogate: n-Nonane		107 %	50-200		03/30/23	04/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313060
Chloride	154	20.0		1	03/30/23	03/31/23	



	D	ample D	uu				
WPX Energy - Carlsbad	Project Name	e: Fede	eral G Gas	Com #0	01		
5315 Buena Vista Dr	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Morenc	4/5/2023 8:51:33AM			
		FS03 4'					
		E303127-03					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2313052
Benzene	ND	0.0250		1	03/30/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/30/23	03/30/23	
Toluene	ND	0.0250		1	03/30/23	03/30/23	
p-Xylene	ND	0.0250		1	03/30/23	03/30/23	
o,m-Xylene	ND	0.0500		1	03/30/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		93.0 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		03/30/23	03/30/23	
Surrogate: Toluene-d8		104 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL			Batch: 2313052
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		93.0 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		03/30/23	03/30/23	
urrogate: Toluene-d8		104 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313051
Diesel Range Organics (C10-C28)	137	25.0		1	03/30/23	04/01/23	
Dil Range Organics (C28-C36)	53.0	50.0		1	03/30/23	04/01/23	
Surrogate: n-Nonane		105 %	50-200		03/30/23	04/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313060
Chloride	78.7	20.0		1	03/30/23	03/31/23	



		ample D	uu				
WPX Energy - Carlsbad	Project Name	e: Fede	eral G Gas	Com #0	001		
5315 Buena Vista Dr	Project Num	ber: 0103	58-0007				Reported:
Carlsbad NM, 88220	Project Mana	ager: Gilb	ert Moreno	4/5/2023 8:51:33AM			
		FS04 4'					
		E303127-04					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: SL			Batch: 2313052
Benzene	ND	0.0250		1	03/30/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/30/23	03/30/23	
Toluene	ND	0.0250		1	03/30/23	03/30/23	
-Xylene	ND	0.0250		1	03/30/23	03/30/23	
o,m-Xylene	ND	0.0500		1	03/30/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		90.9 %	70-130		03/30/23	03/30/23	
urrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		03/30/23	03/30/23	
urrogate: Toluene-d8		103 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: SL		Batch: 2313052
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		90.9 %	70-130		03/30/23	03/30/23	
urrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		03/30/23	03/30/23	
urrogate: Toluene-d8		103 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	04/01/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	04/01/23	
urrogate: n-Nonane		104 %	50-200		03/30/23	04/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2313060
Chloride	373	20.0		1	03/30/23	03/31/23	



		imple D					
WPX Energy - Carlsbad	Project Name:	Fede	ral G Gas C	Com #001			
5315 Buena Vista Dr	Project Numbe	er: 0105	8-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno	4/5/2023 8:51:33AM			
		FS05 4'					
		E303127-05					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: SL			Batch: 2313052
Benzene	ND	0.0250	1		03/30/23	03/30/23	
Ethylbenzene	ND	0.0250	1		03/30/23	03/30/23	
Toluene	ND	0.0250	1		03/30/23	03/30/23	
o-Xylene	ND	0.0250	1		03/30/23	03/30/23	
o,m-Xylene	ND	0.0500	1		03/30/23	03/30/23	
Total Xylenes	ND	0.0250	1		03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		91.3 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130		03/30/23	03/30/23	
Surrogate: Toluene-d8		105 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: SL			Batch: 2313052
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		91.3 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130		03/30/23	03/30/23	
urrogate: Toluene-d8		105 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0	1		03/30/23	04/01/23	
Dil Range Organics (C28-C36)	ND	50.0	1		03/30/23	04/01/23	
Surrogate: n-Nonane		104 %	50-200		03/30/23	04/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA			Batch: 2313060
Chloride	544	20.0	1		03/30/23	03/31/23	



	~	ampic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #00	1		D
5315 Buena Vista Dr Carlsbad NM, 88220	Project Number		58-0007 ert Morenc		Reported: 4/5/2023 8:51:33AM		
Carisbad NM, 88220	Project Manag	ger: Gilb	ert Morend)			4/5/2025 8:51:55AM
		FS06 4'					
		E303127-06					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL				Batch: 2313052
Benzene	ND	0.0250		1	03/30/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/30/23	03/30/23	
Toluene	ND	0.0250		1	03/30/23	03/30/23	
p-Xylene	ND	0.0250		1	03/30/23	03/30/23	
o,m-Xylene	ND	0.0500		1	03/30/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		89.5 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		03/30/23	03/30/23	
Surrogate: Toluene-d8		105 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g/kg Analyst:		SL	Batch: 2313052	
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		89.5 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		03/30/23	03/30/23	
Surrogate: Toluene-d8		105 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	IL		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	04/01/23	
Dil Range Organics (C28-C36)	ND	50.0	-	1	03/30/23	04/01/23	
Surrogate: n-Nonane		106 %	50-200		03/30/23	04/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	ВА		Batch: 2313060
Chloride	187	20.0		1	03/30/23	03/31/23	



		impic D					
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numbe		eral G Gas 58-0007	Com #0	01		Depented
Carlsbad NM, 88220	Project Manag		ert Moreno	Reported: 4/5/2023 8:51:33AM			
	i rojeet manag						
		FS07 4'					
]	E303127-07					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2313052
Benzene	ND	0.0250		1	03/30/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/30/23	03/30/23	
Toluene	ND	0.0250		1	03/30/23	03/30/23	
o-Xylene	ND	0.0250		1	03/30/23	03/30/23	
p,m-Xylene	ND	0.0500		1	03/30/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		91.7 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		03/30/23	03/30/23	
Surrogate: Toluene-d8		105 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL			Batch: 2313052
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/30/23	03/30/23	
Surrogate: Bromofluorobenzene		91.7 %	70-130		03/30/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		03/30/23	03/30/23	
Surrogate: Toluene-d8		105 %	70-130		03/30/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	04/01/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/30/23	04/01/23	
Surrogate: n-Nonane		104 %	50-200		03/30/23	04/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313060
Chloride	33.6	20.0		1	03/30/23	03/31/23	



QC Summary Data

WDV Engagery Couldred			г	damal C C C	#001					
WPX Energy - Carlsbad		Project Name:		ederal G Gas C	om #001				Reported:	
5315 Buena Vista Dr		Project Number:		1058-0007						
Carlsbad NM, 88220		Project Manager:	er: Gilbert Moreno						4/5/2023 8:51:33AM	
		Volatile Organic	Compo	unds by EPA	A 8260E	8	Analyst: SL			
Analyte		Reporting	Spike	Source		Rec		RPD		
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2313052-BLK1)							Prepared: 0	3/30/23 Ar	nalyzed: 03/31/23	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
p-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.461		0.500		92.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130				
Surrogate: Toluene-d8	0.521		0.500		104	70-130				
LCS (2313052-BS1)							Prepared: 0	3/30/23 Ar	nalyzed: 03/31/23	
Benzene	2.18	0.0250	2.50		87.4	70-130				
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130				
Toluene	2.32	0.0250	2.50		92.8	70-130				
p-Xylene	2.29	0.0250	2.50		91.6	70-130				
p,m-Xylene	4.58	0.0500	5.00		91.6	70-130				
Total Xylenes	6.87	0.0250	7.50		91.6	70-130				
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130				
Surrogate: Toluene-d8	0.520		0.500		104	70-130				
Matrix Spike (2313052-MS1)				Source: F	2303125-0)1	Prepared: 0	3/30/23 Ar	nalyzed: 03/31/23	
Benzene	2.23	0.0250	2.50	ND	89.3	48-131				
Ethylbenzene	2.28	0.0250	2.50	ND	91.3	45-135				
Toluene	2.28	0.0250	2.50	ND	91.2	48-130				
p-Xylene	2.30	0.0250	2.50	ND	91.9	43-135				
p,m-Xylene	4.56	0.0500	5.00	ND	91.2	43-135				
Total Xylenes	6.86	0.0250	7.50	ND	91.4	43-135				
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130				
Surrogate: Toluene-d8	0.516		0.500		103	70-130				
Matrix Spike Dup (2313052-MSD1)				Source: F	2303125-0)1	Prepared: 0	3/30/23 Ar	nalyzed: 03/31/23	
Benzene	2.14	0.0250	2.50	ND	85.4	48-131	4.42	23		
Ethylbenzene	2.19	0.0250	2.50	ND	87.7	45-135	4.00	27		
Toluene	2.20	0.0250	2.50	ND	87.8	48-130	3.71	24		
p-Xylene	2.19	0.0250	2.50	ND	87.7	43-135	4.65	27		
p,m-Xylene	4.38	0.0500	5.00	ND	87.6	43-135	4.04	27		
Total Xylenes	6.57	0.0250	7.50	ND	87.6	43-135	4.24	27		
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130				
	0.402		0.500		044	70 120				
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130				



QC Summary Data

		<u> </u>		lary Data	-				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas Co 01058-0007 Gilbert Moreno	om #001				Reported: 4/5/2023 8:51:33AM
		Analyst: SL							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313052-BLK1)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.461		0.500		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS (2313052-BS2)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
Matrix Spike (2313052-MS2)				Source: F	303125-0)1	Prepared: 0	3/30/23	Analyzed: 03/31/23
Gasoline Range Organics (C6-C10)	54.1	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.485		0.500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
Matrix Spike Dup (2313052-MSD2)				Source: H	303125-()1	Prepared: 0	3/30/23	Analyzed: 03/31/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130	11.1	20	
Surrogate: Bromofluorobenzene	0.479		0.500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

QC Summary Data

		$\mathbf{x} \in \mathbf{z}$		ary Date	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	(Federal G Gas C 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					4/5/2023 8:51:33AM
	Nonha	logenated Org	anics by	y EPA 8015D) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313051-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			
LCS (2313051-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	51.6		50.0		103	50-200			
Matrix Spike (2313051-MS1)				Source:	E303119-	05	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			
Matrix Spike Dup (2313051-MSD1)				Source:	E303119-(05	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.4	38-132	1.67	20	
Surrogate: n-Nonane	49.8		50.0		99.5	50-200			



QC Summary Data

			-	<i>.</i>					
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					4/5/2023 8:51:33AN
		Anions	by EPA	300.0/90564	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313060-BLK1)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	ND	20.0							
LCS (2313060-BS1)							Prepared: 0	3/30/23	Analyzed: 04/03/23
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2313060-MS1)				Source:	E303127-0)1	Prepared: 0	3/30/23	Analyzed: 04/03/23
Chloride	263	20.0	250	ND	105	80-120			
Matrix Spike Dup (2313060-MSD1)				Source:	E303127-0)1	Prepared: 0	3/30/23	Analyzed: 04/03/23
Chloride	264	20.0	250	ND	106	80-120	0.512	20	

QC Summary Report Comment:

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



WPX Energy	- Carlsbad	Project Name:	Federal G Gas Com #001	
5315 Buena V	ista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM	88220	Project Manager:	Gilbert Moreno	04/05/23 08:51

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.



Reproject Information

Received by OCD: 7/26/2023 9:27:22 AM

		nian Energy, LLC Bill To				Lab Use Only						TAT					EPA Program				
	Federal G			/	Attention: Jir			Lab W	b WO# Job Number					1	1D	2D	3D	-	ndard	CWA	SDWA
	Manager: (/		15 Buena Vista Dr.		ES	0312'				8-000			\square		5 Da	ay TAT		· · · · · · · · · · · · · · · · · · ·
	: 3122 Nati		A REAL PROPERTY AND ADDRESS			Zip: Carlsbad, NM, 882	220		1.20				nd Met		27						RCRA
	te, Zip: Car		M, 88220	/'	Phone: 575-8	885-7502	/		Ā		T	Γ				\Box					,
	832-541-77	ALC: NO			Email: jim.ra	aley@dvn.com		1 1	ORO		1.7				J	()	1 1	IL	20.5	State	· · · · ·
	evon-team				Cost Center:			1 1	so/c	H		1.5	0.1	1.1	-	()	1 I	N	VM CO	UT AZ	TX
ollecter	d by: Gilbe	ert More	no	,	Incident ID:			E	D/DF	802	8260	5010	300		MN	¥	()				
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample	10	Lab Number	Depth(ft)	TPH GRO/DRO/ORO by 8015	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			_	Remarks	;
15:40	3.27.23	S	1		FS01		1	4'		Ì		0.1			x	Ť					
15:50	3.27.23	S	1		FS02			4'							x		\Box				
16:00	3.27.23	S	1		FS03			4'							x						
16:10	3.27.23	S	1		FS04			4'							x						
16:20	3.27.23	S	1		FS05			4'							x						
16:30	3.27.23	S	1		FS06			4'							x						
16:40	3.27.23	S	1		FS07	*	7	4'							x						
		Cu	Dis	7 3.2:	7.23							-		_	_						
and a second second	nal Instruct		v and authent	ticity of this sample	e. I am aware that tamp	pering with or intentionally mis	islabelling the sam	ple locatic						and the second						they are sampl	
ate or time	e of collection	n is considere		may be grounds for		Sampled by: Gilbert Mo					receive	ed pac	ked in ice r	at an ave	g temr	p above	a 0 but le	ess than 6	6 °C on subse	equent days.	,
0	0	5			7:00 Migu	by: (Signature)	Date 3-29.	.23	Time 0900	10	Rec	eive	d on ice	:e:		/ N	se Onl	ly			
mich	linguished by: (Signature) Mindul March 2-29-23 1715 Linguished by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date 329-23 Z375 MM 24702 Compared Compare		d by: (Signature) Date 3-2.		1-23	Time (732	б	<u>T1</u>			_]	<u>T2</u>			<u>T3</u>	3					
Loc			Date 03 30	13	13 7:00				mp °C_												
				Aqueous, O - Other					g - glass, j	, p - po	oly/pla	lastic,	, ag - an	mber g	glass						
						gements are made. Hazar								e client	it exp	Jense.	. The	report f	for the ar	nalysis of th	ne above
and the later be	applicable r	only to thor	se samples rr	eceived by the la	aboratory with this CO	OC. The liability of the labor	oratory is limited	to the ar	mount pai	id for r	on the	repc	ort.							1	/ / / / / / /

Envirotech Analytical Laboratory

(520) 572 401	- Carlsbad	Date Received:	03/30/23	07:00		Work Order ID:	E303127
hone: (539) 573-401	8	Date Logged In:	03/29/23	15:11		Logged In By:	Caitlin Christian
mail: devon-team@	ensolum.com	Due Date:	04/05/23	17:00 (4 day TAT)			
hain of Custody (CO	<u>C)</u>						
. Does the sample ID i	natch the COC?		Yes				
. Does the number of s	amples per sampling site location	match the COC	Yes				
. Were samples droppe	d off by client or carrier?		Yes	Carrier: Cou	urier		
. Was the COC comple	ete, i.e., signatures, dates/times, re	quested analyses?	Yes				
Note: Analysi	eived within holding time? s, such as pH which should be conduct hold time, are not included in this disu		Yes			Commen	ts/Resolution
ample Turn Around	,			Г			
	e standard TAT, or Expedited TAT	?	Yes				
ample Cooler	-						
. Was a sample cooler	received?		Yes				
. If yes, was cooler rec	eived in good condition?		Yes				
. Was the sample(s) re	ceived intact, i.e., not broken?		Yes				
0. Were custody/secur	ty seals present?		No				
1. If yes, were custody	/security seals intact?		NA				
Note: Therma minutes of sar	ed on ice? If yes, the recorded temp is preservation is not required, if sampling ord the temperature. Actual sar	es are received w/i 15	Yes				
	ord the temperature. Actual san	npie temperature: 4^{-1}	<u>c</u>				
<u>ample Container</u>	ammlag measant?		N				
4. Are aqueous VOC s	ollected in VOA Vials?		No NA				
	ss than 6-8 mm (pea sized or less)	9	NA				
-	B) included for VOC analyses?		NA				
	les collected in the correct contain	iers?	Yes				
	ume/weight or number of sample co		Yes				
ield Label	с г						
	bels filled out with the minimum	information:					
Sample ID?			Yes				
Date/Time Coll			Yes				
Collectors name ample Preservation	51		No				
	eld labels indicate the samples we	re preserved?	No				
2. Are sample(s) corre		re prosorrou.	NA				
· · ·	uired and/or requested for dissolv	ed metals?	No				
Iultiphase Sample M	-						
	ve more than one phase, i.e., mult	phase?	No				
-	C specify which phase(s) is to be a	-	NA				
ubcontract Laborato		-					
	d to get sent to a subcontract labo	ratory?	No				
	boratory specified by the client a	•	NA				

Client Instruction

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



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fede

Federal G Gas Com #001

Work Order: E303136

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303136 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



Page 181 of 521

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		Sample Sum	mary		Ũ
WPX Energy - Carlsbad		Project Name:	Federal G Gas Com	n #001	Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:	01058-0007 Gilbert Moreno		04/03/23 15:44
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW25 4-12'	E303136-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



		mpic D					
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number	r: 010:	eral G Gas (58-0007		01		Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moreno	4/3/2023 3:44:10PM			
	S	W25 4-12'					
	I	E303136-01					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250	1	1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250	1	1	03/31/23	03/31/23	
Toluene	ND	0.0250	1	1	03/31/23	03/31/23	
p-Xylene	ND	0.0250	1	1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500	1	1	03/31/23	03/31/23	
Fotal Xylenes	ND	0.0250	1	1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		102 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		102 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	1	03/30/23	03/31/23	
Surrogate: n-Nonane	d	84.5 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313075
Chloride	327	20.0	1	1	03/30/23	03/31/23	



QC Summary Data

		<u>v</u> vy		ii y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ederal G Gas C 1058-0007	Com #001				Reported:
Carlsbad NM, 88220			ilbert Moreno					4/3/2023 3:44:10PM	
	V	olatile Organio	c Compo	unds by EF	PA 8260B	;			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313071-BLK1)]	Prepared: 0	3/31/23 A	nalyzed: 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	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS1)]	Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Benzene	2.54	0.0250	2.50		102	70-130			
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130			
Toluene	2.48	0.0250	2.50		99.2	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
o,m-Xylene	4.91	0.0500	5.00		98.2	70-130			
Total Xylenes	7.49	0.0250	7.50		99.9	70-130			
Surrogate: Bromofluorobenzene	0.455		0.500		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			
LCS Dup (2313071-BSD1)]	Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Benzene	2.46	0.0250	2.50		98.5	70-130	3.12	23	
Ethylbenzene	2.39	0.0250	2.50		95.5	70-130	0.439	27	
Toluene	2.46	0.0250	2.50		98.4	70-130	0.830	24	
p-Xylene	2.55	0.0250	2.50		102	70-130	1.21	27	
p,m-Xylene	4.90	0.0500	5.00		97.9	70-130	0.306	27	
Total Xylenes	7.45	0.0250	7.50		99.3	70-130	0.616	27	
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		JJ. 0	70 150			



QC Summary Data

		QU D	umm	ary Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	:	Federal G Gas C 01058-0007 Gilbert Moreno					Reported: 4/3/2023 3:44:10PM
	Nor	halogenated	Organic	s by EPA 80	15D - G	RO			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
Blank (2313071-BLK1)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS2)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.451		0.500		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			
LCS Dup (2313071-BSD2)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.5	70-130	2.25	20	
Surrogate: Bromofluorobenzene	0.453		0.500		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			



QC Summary Data

		$\chi \in \mathbb{R}^{n}$	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ary Date	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	(Federal G Gas C 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:	(Gilbert Moreno					4/3/2023 3:44:10PM
	Nonha	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313068-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			
LCS (2313068-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			
Matrix Spike (2313068-MS1)				Source:	E303140-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	471	25.0	250	183	115	38-132			
Surrogate: n-Nonane	48.8		50.0		97.5	50-200			
Matrix Spike Dup (2313068-MSD1)				Source:	E303140-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	449	25.0	250	183	107	38-132	4.73	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

			-	J						
WPX Energy - Carlsbad		Project Name:		Federal G Gas (Com #001				Repor	ted:
5315 Buena Vista Dr		Project Number:		01058-0007						
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					4/3/2023 3	:44:10PM
		Anions	by EPA	300.0/9056	4				Analyst: l	BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	No	otes
Blank (2313075-BLK1)							Prepared:	03/30/23	Analyzed: 03	/31/23
Chloride	ND	20.0								
LCS (2313075-BS1)							Prepared:	03/30/23	Analyzed: 03	/31/23
Chloride	244	20.0	250		97.7	90-110				
Matrix Spike (2313075-MS1)				Source:	E303136-0	1	Prepared:	03/30/23	Analyzed: 03	/31/23
Chloride	565	20.0	250	327	95.4	80-120				
Matrix Spike Dup (2313075-MSD1)				Source:	E303136-0	1	Prepared:	03/30/23	Analyzed: 03	/31/23
Chloride	588	20.0	250	327	105	80-120	3.94	20		

QC Summary Report Comment:

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



WP	X Energy - Carlsbad	Project Name:	Federal G Gas Com #001	
531	5 Buena Vista Dr	Project Number:	01058-0007	Reported:
Car	sbad NM, 88220	Project Manager:	Gilbert Moreno	04/03/23 15:44

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: W	/PX Permi	an Energy	y, LLC				Bill To					Lak	Use	e Onl	y				TA	Т		EPA Pr	rogram
	Federal G				A	ttention: Jim	Raley			Lab W	/0#	1		Job		oer	1D	2D	3D	Stand	lard	CWA	SDWA
	Manager:				_		Buena Vista Dr.			E3C		30		010	58	COF	X			-5 Day	TAT		
	3122 Nat						Carlsbad, NM, 88220)		0	1		A	nalys	is and	d Metho	d						RCRA
	te, Zip: Ca		M, 88220		-	hone: 575-88	(H) 1 H H H H		- 1			Vd C											
	32-541-77	1				mail: jim.rale						/OR										State	1
	evon-team					and the second sec	1061164701					DRO	021	60	10	000.00	MN	TX		NN	1 0	UT AZ	IX
	d by: Yoco	ny Edyte			lir	ncident ID:	nAB1428733041	1 1	-	h(ft)		RO/	by 8	y 82	s 60	de 3		1		-			
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample I	D		ab nber	Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC				Remarks	
12:20	3.29.23	S	1			SW25		1		4-12'							X						
(field samp		the validity		7.4.6.7.65.5.7.2.90.4.67.3		CONTRACTOR OF A DAY	; with or intentionally mislabel	ling the sa	ample	ocation,												ey are sample	ed or rece
	of collection i d by: (Signa		Date	ay be grounds for leg		Received by	Sampled by: Gilbert Moren	o Date	0.5	22	Time		-	packed	in ice at	t an avg ten			ss than 6	°C on subse Y	equent day	s.	
	ed by: (Signa		Date	30/23 09 : Time		Received by		Date	10-	23	Time	100	>	Rece	ived	on ice:	Y)/ N					
	ed by: (Signa		Date	Time	30	Received by	(Signature)	Date	30.	23	Time	30		<u>T1</u>			<u>T2</u>			<u>T3</u>			
	uso	Jei		023 23	IS	au	Why		31.		5	,45	-	AVG		p °C	4		101	3	-	34	
					inless	ther arrangeme	ents are made. Hazardous													ort for th	e analys	is of the al	hove
							he liability of the laborator									. the the	it exper	130, 1	ne rep		analys	as or the di	Jove

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	WPX Energy - Carlsbad Da	te Received:	03/31/23 05	:46	Work Order I	D: E303136
hone:	(539) 573-4018 Da	te Logged In:	03/30/23 13	:46	Logged In By	: Alexa Michaels
Email:	· · ·	ie Date:	03/31/23 17	:00 (0 day TAT)		
Chain o	<u>f Custody (COC)</u>					
	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
8. Were	samples dropped off by client or carrier?		Yes	Carrier: C	ourier	
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes	_	Comn	nents/Resolution
Sample	<u>Turn Around Time (TAT)</u>				~	
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the	ne TAT to 24hr rush
<u>Sample</u>	Cooler					
7. Was a	a sample cooler received?		Yes			
3. If yes,	, was cooler received in good condition?		Yes			
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample ten	nperature: 4°	С			
	Container		-			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La						
	e field sample labels filled out with the minimum information of the same of t	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
J			No			
]	Collectors name?		110			
l (Sample	Preservation	10				
l (<u>Sample</u> 21. Does	<u>Preservation</u> s the COC or field labels indicate the samples were prese	rved?	No			
] (Sample 21. Does 22. Are s	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved?		No NA			
] (Sample 21. Does 22. Are s 24. Is lat	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta		No			
] (Sample 21. Does 22. Are s 24. Is lat Multiph	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta nase Sample Matrix		No NA No			
] Sample 21. Does 22. Are s 24. Is lat Multiph 26. Does	Preservation s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <u>mase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase?	ls?	No NA No No			
] Sample 21. Does 22. Are s 24. Is lat Multiph 26. Does	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta nase Sample Matrix	ls?	No NA No			
Image: Sample 21. Does 22. Are 24. Is lat Multiph 26. Does 27. If ye	Preservation s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <u>mase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase?	ls?	No NA No No			
1 (() () () () () () () () () () () () (Preservation s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta mase Sample Matrix s the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed	ls? 1?	No NA No No			

C

Date

envirotech Inc.

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





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fede

Federal G Gas Com #001

Work Order: E303137

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303137 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.

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

Respectfully,

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Sun	imary	
Project Name:	Federal G Gas Com #001	_

WDV En anna Caulatad		Duri art Naman	Federal C Cas Car	- #001	
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	Federal G Gas Con 01058-0007	n #001	Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		04/03/23 15:45
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW21 4-12'	E303137-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
SW22 4-12'	E303137-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
SW23 4-12'	E303137-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



	Sa	ample D	ata				
WPX Energy - Carlsbad	Project Name:		eral G Gas C	Com #001			
5315 Buena Vista Dr	Project Numbe		58-0007	Reported:			
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno				4/3/2023 3:45:56PM
	~	SW21 4-12'					
	-	E303137-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2313071
Benzene	ND	0.0250	1	l	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250	1	l	03/31/23	03/31/23	
Toluene	ND	0.0250	1	l	03/31/23	03/31/23	
o-Xylene	ND	0.0250	1	l	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500	1	l	03/31/23	03/31/23	
Fotal Xylenes	ND	0.0250	1	l	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		101 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		101 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2313068
Diesel Range Organics (C10-C28)	179	25.0	1	l	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	82.1	50.0	1	l	03/30/23	03/31/23	
Surrogate: n-Nonane		94.7 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA			Batch: 2313075
Chloride	ND	20.0	1	1	03/30/23	03/31/23	



	~•	impic D					
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numbe		eral G Gas 58-0007	Com #00	1		Reported:
Carlsbad NM, 88220	Project Manage		ert Morenc)			4/3/2023 3:45:56PM
	S	SW22 4-12'					
]	E303137-02					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
o-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		103 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130		03/31/23	03/31/23	
lurrogate: Toluene-d8		103 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		95.9 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	ns by EPA 300.0/9056A mg/kg				BA		Batch: 2313075
Chloride	98.3	20.0		1	03/30/23	03/31/23	



		imple D					
WPX Energy - Carlsbad	Project Name:	Fede	ral G Gas	Com #00	1		
5315 Buena Vista Dr	Project Number	r: 0105	8-0007				Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Morenc)		4/3/2023 3:45:56PM	
	S	W23 4-12'					
]	E303137-03					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	mg/kg Analyst: IY				Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		103 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		103 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313068
Diesel Range Organics (C10-C28)	168	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	99.8	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane	50-200		03/30/23	03/31/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: E	BA		Batch: 2313075
Chloride	ND	20.0		1	03/30/23	03/31/23	



QC Summary Data

		QC D		- 5	-					
WPX Energy - Carlsbad		Project Name:	Fe	deral G Gas C	om #001				Reported:	
5315 Buena Vista Dr		Project Number:	01	058-0007				•		
Carlsbad NM, 88220		Project Manager:	Gi	ilbert Moreno				4/3/2023 3:45:56PM		
	V	olatile Organic	Compo	unds by EP.	A 8260B				Analyst: IY	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2313071-BLK1)]	Prepared: 03	3/31/23 A	nalyzed: 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	0.447		0.500		89.4	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130				
Surrogate: Toluene-d8	0.500		0.500		100	70-130				
LCS (2313071-BS1)]	Prepared: 03	3/31/23 A	nalyzed: 03/31/23	
Benzene	2.54	0.0250	2.50		102	70-130				
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130				
Foluene	2.48	0.0250	2.50		99.2	70-130				
p-Xylene	2.58	0.0250	2.50		103	70-130				
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130				
Total Xylenes	7.49	0.0250	7.50		99.9	70-130				
Surrogate: Bromofluorobenzene	0.455		0.500		90.9	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130				
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130				
LCS Dup (2313071-BSD1)]	Prepared: 03	3/31/23 A	nalyzed: 03/31/23	
Benzene	2.46	0.0250	2.50		98.5	70-130	3.12	23		
Ethylbenzene	2.39	0.0250	2.50		95.5	70-130	0.439	27		
Toluene	2.46	0.0250	2.50		98.4	70-130	0.830	24		
p-Xylene	2.55	0.0250	2.50		102	70-130	1.21	27		
p,m-Xylene	4.90	0.0500	5.00		97.9	70-130	0.306	27		
Total Xylenes	7.45	0.0250	7.50		99.3	70-130	0.616	27		
			0.500		02.0	70-130				
•	0.470		0.500		93.9	70-150				
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.470 0.495		0.500		93.9 99.0	70-130				



QC Summary Data

		QU N	u 111111	ary Date					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas 0 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:45:56PM
	Nor	nhalogenated (Organic	s by EPA 80	15D - GI	RO			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
Blank (2313071-BLK1)							Prepared: 0	3/31/23 Ai	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS2)							Prepared: 0	3/31/23 Ai	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.451		0.500		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			
LCS Dup (2313071-BSD2)							Prepared: 0	3/31/23 Ai	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.5	70-130	2.25	20	
Surrogate: Bromofluorobenzene	0.453		0.500		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			



QC Summary Data

		QU D	u	ary Data	4				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	Federal G Gas C 1058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:45:56PM
	Nonha	logenated Org) - 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
Blank (2313068-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			
LCS (2313068-BS1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			
Matrix Spike (2313068-MS1)				Source:	E303140-(01	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Diesel Range Organics (C10-C28)	471	25.0	250	183	115	38-132			
Surrogate: n-Nonane	48.8		50.0		97.5	50-200			
Matrix Spike Dup (2313068-MSD1)				Source:	E303140-0	01	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Diesel Range Organics (C10-C28)	449	25.0	250	183	107	38-132	4.73	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

			•	J					
WPX Energy - Carlsbad									Reported:
		2		01058-0007					4/2/2022 2:45.5(DM
Carlsbad NM, 88220		Project Manager	•	Gilbert Moreno					4/3/2023 3:45:56PM
		Anions	by EPA	300.0/90564	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313075-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	ND	20.0							
LCS (2313075-BS1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	244	20.0	250		97.7	90-110			
Matrix Spike (2313075-MS1)				Source:	E303136-0)1	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	565	20.0	250	327	95.4	80-120			
Matrix Spike Dup (2313075-MSD1)				Source:	E303136-0)1	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	588	20.0	250	327	105	80-120	3.94	20	

QC Summary Report Comment:

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



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 15:45

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.



Project In Client: V Project: Project I Address City, Sta	nformatio	n				Cha	n of Custod	1												I	Page <u>\</u>	of1	
Client: V	VPX Permi	an Energ	N LIC	T	1	Bill To		1		10	h He	o Onl			-		-	ТА	т		EDA D	rogram	
Project:	Federal G				Attention			1.1.1	Lab Use Only Lab WO# Job Number					11		TAT 2D 3D Stan		EPA Progra		SDWA			
Project.	Vanager:					315 Buena Vista Dr.		Lab	NO#	12-							20	3D		y TAT	CWA	SUWA	
Addross	: 3122 Nat						0	EG	50	13	T	DIDE	20.	000	TIX	0			5 00	y mer		DCDA	
Aduress						, Zip: Carlsbad, NM, 8822	20	-	-	15 1	_	Analys	sis an	d Met	lod	-		- 1	-			RCRA	
0.01,000			IM, 88220		the second s	5-885-7502		_		0 p									-				
and the second second second second	332-541-7					.raley@dvn.com	-	_		/OR									_		State		
	evon-tean				Cost Cente						21	60	00	10	0.00	1	MN			N	IM CO	UT AZ	TX
Collecte	d by: Yocc	oly Edyte	Konan		Incident ID: nAB1428733041			(#		1/01	y 80	826	601	le 3(X						
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID			Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	10000	BGDOC	BGDOC				Remarks		
11:40	3.29.23	S	1		SW	21	1	4-12)	x							
11:50	3.29.23	S	1		SW22			4-12							3	x							
12:00	3.29.23	S	1		SW23			4-12							;	x							
Addition	al Instruc	tions:																				D	
				ity of this sample. Ta ay be grounds for leg		pering with or intentionally mislab Sampled by: Gilbert More		location	,											ce the day the sequent day		ed or received	
Relinquish Relinquish	ed by: (Signa	ture)	Date 031. Date	30/23 09;0	Receive Receive	ed by: (Signature)	Date Date Date		Time	900		Rece	eived	on ice	. (e Onl	y				
Relinquish	ed by: (Signa	len	Date 3-3	0-23 Z31		d by: (Signature)	Date 3:31		Time	30	5	T1 AVG			4	2			_ <u>I</u>	3	-		
				ueous, O - Other			Containe																
						gements are made. Hazardou OC. The liability of the laborate								t the cl	ent exp	pense	e. Th	he rep	ort for	the analy	sis of the a	bove	
										(E	3	(e	n	V	1	i	rC	ot	e	cł	

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad	Date Received:	03/31/23 05	5:45	Work Order ID: E303137
Phone:	(539) 573-4018	Date Logged In:	03/30/23 13	3:52	Logged In By: Alexa Michaels
Email:		Due Date:	03/31/23 17	7:00 (0 day TAT)	
Chain of	f Custody (COC)				
1. Does t	he sample ID match the COC?		Yes		
2. Does t	he number of samples per sampling site location mate	h the COC	Yes		
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: C	ourier
4. Was th	e COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes		
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Comments/Resolution
<u>Sample [</u>	<u> Turn Around Time (TAT)</u>				
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr rush
Sample (<u>Cooler</u>				Sample SW23 depth on the COC is 4-12
7. Was a	sample cooler received?		Yes		the physical jar is labeled 4-8ft.
8. If yes,	was cooler received in good condition?		Yes		
9. Was th	e sample(s) received intact, i.e., not broken?		Yes		
10. Were	custody/security seals present?		No		
11. If yes	s, were custody/security seals intact?		NA		
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample to	emperature: 4°	С		
	Container	-	_		
	iqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?		Yes		
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes		
Field La	<u>bel</u>				
20. Were	field sample labels filled out with the minimum inform	mation:			
	Sample ID?		Yes		
	Date/Time Collected?		Yes	L	
	Collectors name? Preservation		No		
	the COC or field labels indicate the samples were pre	served?	No		
	ample(s) correctly preserved?		NA		
	b filteration required and/or requested for dissolved me	etals?	No		
	ase Sample Matrix		110		
	the sample have more than one phase, i.e., multiphase	27	No		
	s, does the COC specify which phase(s) is to be analyz		NO NA		
•			INA		
supcont	ract Laboratory				
	amples required to get sent to a subcontract laboratory	79	No		

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



envirotech Inc.

-





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fede

Federal G Gas Com #001

Work Order: E303138

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303138 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Sample	Summary
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		Sample Sum	mai y		
WPX Energy - Carlsbad		Project Name:	Federal G Gas Con	n #001	D
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		04/03/23 15:47
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08 4'	E303138-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS09 4'	E303138-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS10 4'	E303138-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



		ampic D					
WPX Energy - Carlsbad	Project Name:						
5315 Buena Vista Dr	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno)			4/3/2023 3:47:27PM
		FS08 4'					
		E303138-01					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.1 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		98.1 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.1 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		98.1 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313068
Diesel Range Organics (C10-C28)	99.5	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	132	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		92.1 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA			Batch: 2313075
Chloride	84.1	20.0		1	03/30/23	03/31/23	



		ampic D					
WPX Energy - Carlsbad	Project Name:						
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007			Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Morenc)			4/3/2023 3:47:27PM
		FS09 4'					
		E303138-02					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
o-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.3 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		98.7 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.3 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		03/31/23	03/31/23	
urrogate: Toluene-d8		98.7 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2313068
Diesel Range Organics (C10-C28)	334	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	265	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		101 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313075
Chloride	134	20.0		1	03/30/23	03/31/23	



		mpic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #0	01		
5315 Buena Vista Dr	Project Numbe		58-0007		Reported:		
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moren	0			4/3/2023 3:47:27PM
		FS10 4'					
]	E303138-03					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		90.5 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		99.0 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		90.5 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		99.0 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2313068
Diesel Range Organics (C10-C28)	756	25.0		1	03/30/23	03/31/23	
Oil Range Organics (C28-C36)	463	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		108 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313075
Chloride	150	20.0		1	03/30/23	03/31/23	



QC Summary Data

		<u> </u>	u 111111	ii y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ederal G Gas C 1058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					4/3/2023 3:47:27PM
	V	olatile Organi	c Compo	unds by EF	PA 8260B	;			Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result mg/kg	Limit mg/kg	Level mg/kg	Result mg/kg	Rec %	Limits %	RPD %	Limit %	Notes
Blank (2313071-BLK1)							Prepared: 0	3/31/23 A	nalyzed: 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	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS1)]	Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Benzene	2.54	0.0250	2.50		102	70-130			
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130			
Toluene	2.48	0.0250	2.50		99.2	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130			
Total Xylenes	7.49	0.0250	7.50		99.9	70-130			
Surrogate: Bromofluorobenzene	0.455		0.500		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			
LCS Dup (2313071-BSD1)]	Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Benzene	2.46	0.0250	2.50		98.5	70-130	3.12	23	
Ethylbenzene	2.39	0.0250	2.50		95.5	70-130	0.439	27	
Toluene	2.46	0.0250	2.50		98.4	70-130	0.830	24	
p-Xylene	2.55	0.0250	2.50		102	70-130	1.21	27	
p,m-Xylene	4.90	0.0500	5.00		97.9	70-130	0.306	27	
Total Xylenes	7.45	0.0250	7.50		99.3	70-130	0.616	27	
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			



QC Summary Data

		QC D	umm	ary Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:47:27PM
	Nor	nhalogenated C	Organic	s by EPA 801	15D - GI	RO			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
Blank (2313071-BLK1)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS2)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.451		0.500		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			
LCS Dup (2313071-BSD2)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.5	70-130	2.25	20	
Surrogate: Bromofluorobenzene	0.453		0.500		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			



QC Summary Data

		VC B		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas Co 01058-0007 Gilbert Moreno	om #001				Reported: 4/3/2023 3:47:27PM
	Nonh	alogenated Orga	anics by	y 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
Blank (2313068-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0					_		-
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			
LCS (2313068-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			
Matrix Spike (2313068-MS1)				Source: H	303140-	01	Prepared: 0	3/30/23 A	nalyzed: 03/31/23
Diesel Range Organics (C10-C28)	471	25.0	250	183	115	38-132			
Surrogate: n-Nonane	48.8		50.0		97.5	50-200			
Matrix Spike Dup (2313068-MSD1)				Source: F	303140-	01	Prepared: 0	3/30/23 A	nalyzed: 03/31/23
Diesel Range Organics (C10-C28)	449	25.0	250	183	107	38-132	4.73	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



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 3:47:27Pl
		Anions	by EPA	300.0/9056	A				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313075-BLK1)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	ND	20.0							
LCS (2313075-BS1)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	244	20.0	250		97.7	90-110			
Matrix Spike (2313075-MS1)				Source:	E303136-0)1	Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	565	20.0	250	327	95.4	80-120			
Matrix Spike Dup (2313075-MSD1)				Source:	E303136-0)1	Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	588	20.0	250	327	105	80-120	3.94	20	

QC Summary Report Comment:

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


WPX E	Energy - Carlsbad	Project Name:	Federal G Gas Com #001	
5315 B	uena Vista Dr	Project Number:	01058-0007	Reported:
Carlsba	ad NM, 88220	Project Manager:	Gilbert Moreno	04/03/23 15:47

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.



lient: V	/PX Permi	an Energ	y, LLC			Bill To				ab U	se On	ly				TA	AT	EPA P	rogram
	Federal G				Attention: Jir			Lab V				Num	ber	1D	2D		Standard	CWA	SDW/
	Manager:					5 Buena Vista Dr.		F2	5313	8	OI	58	.000	XF			-5 Day TAT		
	: 3122 Nat				City, State, Zi	ip: Carlsbad, NM, 8822	20	-us	Luc	0			d Meth						RCRA
ity, Sta	te, Zip: Ca	rlsbad, N	M, 88220		Phone: 575-8			1000	þ	1	1				1		100		1
	32-541-7					ey@dvn.com		1	0RO									State	-
	evon-team		um.com		Cost Center:			1	0/0	-		1.2	0.				NM C	UT AZ	TX
	d by: Yoco				Incident ID:	nAB1428733041		t)	O/DF	802	3260	010	300	WN	1X				
Time	Date		No. of			The second states and a second	Lab	th(f	GRC	(by	by §	als 6	ride	OC	S				
Sampled	Sampled	Matrix	Containers		Sample	ID	Number	Depth(ft)	TPH GRO/DRO/ORO by	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC			Remark	S
12:30	3.29.23	S	1		FS08		1	4'						X					
12:40	3.29.23	S	1		FS09		2	4'						X					
12:50	3.29.23	S	1		FS10		3	4'						x					
												-							
										-	-			-	-	-			
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dditior	al Instruc	tions:								_									
				ity of this sample. ay be grounds for le		ng with or intentionally mislab Sampled by: Gilbert More		location,			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1				ceived on ice the d 5 °C on subsequent		oled or receiv
linquish	ed by: (Signa	ture)	Date	130/23 03	Received h	vy: (Signature)	Date	23	Time	C.	Por	alvor	l on ice	, C	abU	lse On	ly		
linguish	ed by: (Signa	iture)	Date	an Time	Received b	ov: (Signature)	Date 3-30-	.23	Time 1730		TI	civeu	onice				TO		
	ed by: (Signa		Date	Time	Received b	vy: (Signature)	Date	2		E	11			$\underline{\Pi}$			<u>T3</u>		
	rix: S Soil, So	I-Solid, Sg -		1023 23 ueous, 0 - Other_	\sim m	Rath	3.31 Containe	Type:	g - glass	10 p-p	_	Ten stic, a	the second s	er glas	s, v - '	VOA			
						nents are made. Hazardou The liability of the laborati	is samples will b	pe retur	ned to cli	ent or	dispos	ed of a					port for the an	alysis of the	above
	-pproduce 0		- Joinpies le			the looking of the laboration	., , 15	une unn	ant para		une re						ro		

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	WPX Energy - Carlsbad D	ate Received:	03/31/23 05:4	45	Work Order ID: E303138
hone:	(539) 573-4018 D	ate Logged In:	03/30/23 13::	56	Logged In By: Alexa Michaels
Email:		Due Date:	03/31/23 17:	00 (0 day TAT)	
<u>Chain o</u>	f Custody (COC)				
1. Does t	the sample ID match the COC?		Yes		
2. Does f	the number of samples per sampling site location match	the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	ourier
4. Was th	ne COC complete, i.e., signatures, dates/times, requester	d analyses?	Yes		
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.		Yes	_	Comments/Resolution
<u>Sample '</u>	<u>Turn Around Time (TAT)</u>				
5. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr rush
Sample	<u>Cooler</u>				
7. Was a	sample cooler received?		Yes		
8. If yes,	was cooler received in good condition?		Yes		
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes		
10. Were	custody/security seals present?		No		
11. If ye	s, were custody/security seals intact?		NA		
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re-		Yes		
13 If no	minutes of sampling visible ice, record the temperature. Actual sample te	mperature: 4º	C		
		mperature. <u>+</u>	<u>c</u>		
_	Container aqueous VOC samples present?				
14. Alt a	iqueous voc samples present.		No		
15 Are V	VOC samples collected in VOA Vials?		No NA		
	VOC samples collected in VOA Vials?		NA		
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA NA		
16. Is the 17. Was	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses?		NA NA NA		
16. Is the 17. Was 18. Are 1	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?	s collected?	NA NA NA Yes		
16. Is the 17. Was 18. Are 1 19. Is the	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container	s collected?	NA NA NA		
16. Is the 17. Was 18. Are 1 19. Is the Field La	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel		NA NA NA Yes		
 16. Is the 17. Was 18. Are t 19. Is the Field La 20. Were 	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container		NA NA NA Yes		
16. Is the 17. Was 18. Are 1 19. Is the Field La 20. Were S	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		NA NA NA Yes Yes		
16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S I	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		NA NA Yes Yes Yes		
16. Is the 17. Was 18. Are 1 19. Is the Field La 20. Were S I C Sample	 a head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel a field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation 	nation:	NA NA Yes Yes Yes No		
16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were Sample 21. Does	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were pres	nation:	NA NA Yes Yes Yes No No		
16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were Sample 21. Does 22. Are s	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were pres sample(s) correctly preserved?	nation: erved?	NA NA Yes Yes Yes No No NA		
16. Is the 17. Was 18. Are 1 19. Is the Field La 20. Were 20. Were 21. Does 21. Does 22. Are s 24. Is lab	 a head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel a field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved met 	nation: erved?	NA NA Yes Yes Yes No No		
16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were 5 10. 5 21. Does 22. Are s 24. Is lab Multiph	 a head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel a field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta ase Sample Matrix 	nation: erved? als?	NA NA Yes Yes Yes No No NA		
16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were Sample 21. Does 22. Are s 22. Are s 24. Is lab Multiph 26. Does	 a head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel a field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved met ase Sample Matrix as the sample have more than one phase, i.e., multiphase? 	nation: erved? als? ?	NA NA Yes Yes Yes No No NA		
16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were Sample 21. Does 22. Are s 22. Are s 24. Is lab Multiph 26. Does	 a head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel a field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta ase Sample Matrix 	nation: erved? als? ?	NA NA Yes Yes Yes No No NA No		
16. Is the 17. Was 18. Are 1 19. Is the Field La 20. Were Sample 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If yes	 a head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel a field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved met ase Sample Matrix as the sample have more than one phase, i.e., multiphase? 	nation: erved? als? ?	NA NA Yes Yes Yes No No NA No		
16. Is the 17. Was 18. Are 1 19. Is the Field La 20. Were 20. Were 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If yes	 a head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel a field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were presses asample(s) correctly preserved? b filteration required and/or requested for dissolved met ase Sample Matrix a the sample have more than one phase, i.e., multiphasef as to COC specify which phase(s) is to be analyzed 	nation: erved? als? ? 2d?	NA NA Yes Yes Yes No No NA No		

C

Date

envirotech Inc.

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

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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Federa

Federal G Gas Com #001

Work Order: E303139

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303139 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 reguarding 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

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Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

		Sampic Sum	mai y		
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	Federal G Gas Cor 01058-0007 Gilbert Moreno	m #001	Reported: 04/03/23 15:49
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS21 12'	E303139-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS22 12'	E303139-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS23 12'	E303139-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS24 12'	E303139-04A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS25 12'	E303139-05A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS26 12'	E303139-06A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



		ample D				
WPX Energy - Carlsbad	Project Name:		eral G Gas C	om #001		
5315 Buena Vista Dr	Project Numbe		58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno			4/3/2023 3:49:18PM
		FS21 12'				
		E303139-01				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2313071
Benzene	ND	0.0250	1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/31/23	03/31/23	
oluene	ND	0.0250	1	03/31/23	03/31/23	
o-Xylene	ND	0.0250	1	03/31/23	03/31/23	
,m-Xylene	ND	0.0500	1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		90.4 %	70-130	03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	03/31/23	03/31/23	
urrogate: Toluene-d8		100 %	70-130	03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		90.4 %	70-130	03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	03/31/23	03/31/23	
urrogate: Toluene-d8		100 %	70-130	03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0	1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	03/30/23	03/31/23	
urrogate: n-Nonane		96.3 %	50-200	03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2313075
Chloride	248	20.0	1	03/30/23	03/31/23	





		impic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #00)1		
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno)			4/3/2023 3:49:18PM
		FS22 12'					
		E303139-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Fotal Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.7 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		98.5 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.7 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		98.5 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	IL		Batch: 2313068
Diesel Range Organics (C10-C28)	26.4	25.0		1	03/30/23	03/31/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		96.5 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313075
Chloride	232	20.0		1	03/30/23	03/31/23	



		impic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #00	1		
5315 Buena Vista Dr	Project Numbe		8-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno)			4/3/2023 3:49:18PM
		FS23 12'					
		E303139-03					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
-Xylene	ND	0.0250		1	03/31/23	03/31/23	
,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		88.3 %	70-130		03/31/23	03/31/23	
urrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		03/31/23	03/31/23	
urrogate: Toluene-d8		100 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
urrogate: Bromofluorobenzene		88.3 %	70-130		03/31/23	03/31/23	
urrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		03/31/23	03/31/23	
urrogate: Toluene-d8		100 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
urrogate: n-Nonane		94.0 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	BA		Batch: 2313075
Chloride	77.7	20.0		1	03/30/23	03/31/23	



		impic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #00	1		
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Morenc)			4/3/2023 3:49:18PM
		FS24 12'					
	-	E303139-04					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		91.3 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		99.6 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		91.3 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		99.6 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		96.2 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	BA		Batch: 2313075
Chloride	79.2	20.0		1	03/30/23	03/31/23	



		ampic D					
WPX Energy - Carlsbad	Project Name	: Fede	eral G Gas	Com #00	1		
5315 Buena Vista Dr	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Morenc	4/3/2023 3:49:18PM			
		FS25 12'					
		E303139-05					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
p,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.4 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		99.0 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.4 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		99.0 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		97.0 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	BA		Batch: 2313075
Chloride	678	20.0		1	03/30/23	03/31/23	



		ampic D					
WPX Energy - Carlsbad	Project Name	: Fede	eral G Gas	Com #00)1		
5315 Buena Vista Dr	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno	4/3/2023 3:49:18PM			
		FS26 12'					
		E303139-06					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.4 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		97.6 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		89.4 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		97.6 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	IL		Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		94.2 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313075
Chloride	667	20.0		1	03/30/23	03/31/23	



QC Summary Data

		<u> </u>		ii y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ederal G Gas C 1058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					4/3/2023 3:49:18PM
	v	olatile Organic	: Compo	unds by EF	PA 8260B				Analyst: IY
		Reporting	Spike	Source		Rec		RPD	
Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313071-BLK1)]	Prepared: 0.	3/31/23 A	nalyzed: 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	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS1)]	Prepared: 03	3/31/23 A	nalyzed: 03/31/23
Benzene	2.54	0.0250	2.50		102	70-130			
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130			
Toluene	2.48	0.0250	2.50		99.2	70-130			
p-Xylene	2.58	0.0250	2.50		103	70-130			
o,m-Xylene	4.91	0.0500	5.00		98.2	70-130			
Total Xylenes	7.49	0.0250	7.50		99.9	70-130			
Surrogate: Bromofluorobenzene	0.455		0.500		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			
LCS Dup (2313071-BSD1)							Prepared: 0.	3/31/23 A	nalyzed: 03/31/23
Benzene	2.46	0.0250	2.50		98.5	70-130	3.12	23	
Ethylbenzene	2.39	0.0250	2.50		95.5	70-130	0.439	27	
Toluene	2.46	0.0250	2.50		98.4	70-130	0.830	24	
o-Xylene	2.55	0.0250	2.50		102	70-130	1.21	27	
p,m-Xylene	4.90	0.0500	5.00		97.9	70-130	0.306	27	
Total Xylenes	7.45	0.0250	7.50		99.3	70-130	0.616	27	
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			



QC Summary Data

		QC S	Juiiiii	aly Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	: (Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:49:18PM
Carisbau INIVI, 88220	•	, ,							-7/3/2023 39.101 W
	Noi	halogenated	Organics	s by EPA 801	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313071-BLK1)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS2)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.451		0.500		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			
LCS Dup (2313071-BSD2)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.5	70-130	2.25	20	
Surrogate: Bromofluorobenzene	0.453		0.500		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			



QC Summary Data

		$\mathbf{x} \in \mathbf{z}$	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ary Date	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(Federal G Gas C)1058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:49:18PM
	Nonha	logenated Org	anics by	y 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
Blank (2313068-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			
LCS (2313068-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			
Matrix Spike (2313068-MS1)				Source:	E303140-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	471	25.0	250	183	115	38-132			
Surrogate: n-Nonane	48.8		50.0		97.5	50-200			
Matrix Spike Dup (2313068-MSD1)				Source:	E303140-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	449	25.0	250	183	107	38-132	4.73	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

WPX Energy - Carlsbad		Project Name:		Federal G Gas (Com #001				Repo	orted:
5315 Buena Vista Dr		Project Number:		01058-0007						
Carlsbad NM, 88220		Project Manager		Gilbert Moreno					4/3/2023	3:49:18PM
		Anions	by EPA	300.0/90562	4				Analyst	: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	1	Notes
Blank (2313075-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	ND	20.0								
LCS (2313075-BS1)							Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	244	20.0	250		97.7	90-110				
Matrix Spike (2313075-MS1)				Source:	E303136-0)1	Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	565	20.0	250	327	95.4	80-120				
Matrix Spike Dup (2313075-MSD1)				Source:	E303136-0)1	Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	588	20.0	250	327	105	80-120	3.94	20		

QC Summary Report Comment:

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



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: W	VPX Permi	an Energy	y, LLC				Bill To				La	b Use	e Onl	Y				TA	T		EPA Pr	ogram
	Federal G				A	ttention: Jim	Raley	-	Lab W	VO#	1		Jobl		ber	1D	2D	3D	Stand	ard	CWA	SDWA
	Manager:				A	ddress: 5315	Buena Vista Dr.		E3	62	130				000-	X			5 Day	TAT		
Address:	: 3122 Nat	ional Par	ks HWY		Ci	ty, State, Zip:	Carlsbad, NM, 882	220				• 4	Analys	sis an	d Metho	bd						RCRA
	te, Zip: Ca		M, 88220		P	none: 575-88	5-7502				λq						1				1	Í
	32-541-7				Ei	nail: jim.raley	@dvn.com				ORC	3									State	
	evon-tean				C	ost Center:	1061164701				DRO/	21	09	0	0.00	MM			NN	1 CO	UT AZ	TX
Collecter	d by: Yocc	ly Edyte	Konan		In	cident ID:	nAB1428733041		(ft)		30/E	y 80	/ 82(601	de 30	1.1	X					
Time Sampled	Date Sampled	Matrix	No, of Containers			Sample II)	Lab Number	Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC				Remarks	
14:40	3.29.23	S	1			FS21		1	12'							X						
14:50	3.29.23	S	1			FS22		2	12'							x						
15:00	3.29.23	S	1	H		FS23		3	12'							x						
15:10	3.29.23	S	1		FS24		4	12'							x							
15:20	3.29.23	S	1		FS25		5	12'							x							
15:30	3.29.23	S	1			FS26		10	12'							x						
		7.55		,									-									
Addition	al Instruc	tions:							1							1		1				
				ity of this sample ay be grounds for			with or intentionally misla Sampled by: Gilbert Mo		location,										eived on ice °C on subse		hey are sample vs.	d or receiv
	ed by: (Signa		Date	Time		Received by:		Date	23	Time	900		Rece	eived	on ice:	-	ab Us	se On	ly			
	ed by: (Signa		Date 3-3	0:23 Time	130	Received by:	(Signature)	Date 330	-23	Time //	730		T1			T2			<u>T3</u>			
1/	ed by: (Signa	lei	Date 3-3	023 Z3	15	Received by:	(Signature)	3.31	23	Time	5:4	5	AVG	Tem	p°C	4	-					
				ueous, O - Other			44.	Containe														
							nts are made. Hazardo ne liability of the labora								t the clie	nt expe	nse.	The rep	port for th	e analy:	sis of the al	oove

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad	Date Received:	03/31/23 05	:45	Work Order ID: E303139
Phone:	(539) 573-4018	Date Logged In:	03/30/23 13	:59	Logged In By: Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	03/31/23 17	:00 (0 day TAT)	
Chain o	of Custody (COC)				
1. Does	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location mat	ch the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	ourier
4. Was t	he COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssio		Yes	_	Comments/Resolution
Sample	<u>Turn Around Time (TAT)</u>				
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr rush
<u>Sample</u>	Cooler				
7. Was a	a sample cooler received?		Yes		
8. If yes	, was cooler received in good condition?		Yes		
9. Was t	he sample(s) received intact, i.e., not broken?		Yes		
10. Wer	e custody/security seals present?		No		
11. If ye	es, were custody/security seals intact?		NA		
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°	С		
Sample	Container				
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
16. Is th	he 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?	2	Yes		
19. Is the	e appropriate volume/weight or number of sample contair	ers collected?	Yes		
Field La	abel				
	e field sample labels filled out with the minimum info	rmation:			
	Sample ID?		Yes		
	Date/Time Collected? Collectors name?		Yes	L	
			No		
	<u>Preservation</u> s the COC or field labels indicate the samples were pr	reserved?	No		
	sample(s) correctly preserved?	0.501 / 0.41	NA		
	b filteration required and/or requested for dissolved r	etals?	No		
	• •		110		
	nase Sample Matrix		N-		
	es, does the COC specify which phase(s) is to be analy		No NA		
u. 11 yc		2001	NA		
C	I FACILLADORATORY				
Subcon	· · · · · · · · · · · · · · · · · · ·		N		
28. Are	samples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if		No NA S	Subcontract Lab	

B

Date

envirotech Inc.

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





5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fee

Federal G Gas Com #001

Work Order: E303140

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303140 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

		Sample Sum	mary		
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	Federal G Gas Con 01058-0007 Gilbert Moreno	n #001	Reported: 04/03/23 15:54
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS11 15'	E303140-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS12 15'	E303140-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS13 15'	E303140-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS14 15'	E303140-04A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



		mpic D					
WPX Energy - Carlsbad	Project Name:	Fede	ral G Gas (Com #00	1		
5315 Buena Vista Dr	Project Number	r: 0105	8-0007				Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moreno				4/3/2023 3:54:21PM
		FS11 15'					
	I	E303140-01					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	IY		Batch: 2313071
Benzene	ND	0.0250	1	1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250	1	1	03/31/23	03/31/23	
Toluene	ND	0.0250	1	1	03/31/23	03/31/23	
p-Xylene	ND	0.0250	1	1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500	1	1	03/31/23	03/31/23	
Fotal Xylenes	ND	0.0250	1	1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		101 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130		03/31/23	03/31/23	
lurrogate: Toluene-d8		101 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg		Analyst: J	ΓL		Batch: 2313068
Diesel Range Organics (C10-C28)	183	25.0	1	I	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	1	03/30/23	03/31/23	
Surrogate: n-Nonane		101 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	BA		Batch: 2313075
Chloride	43.3	20.0	1	1	03/30/23	03/31/23	



		mpic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #0	01		
5315 Buena Vista Dr	Project Number		58-0007				Reported:
Carlsbad NM, 88220	Project Manage	r: Gilb	ert Moren	D			4/3/2023 3:54:21PM
		FS12 15'					
	ŀ	2303140-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
p,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		102 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		102 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2313068
Diesel Range Organics (C10-C28)	509	25.0		1	03/30/23	03/31/23	
Oil Range Organics (C28-C36)	85.1	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane	ç	99.1 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313075
Chloride	46.4	20.0		1	03/30/23	03/31/23	



		impic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #00	1		
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno)			4/3/2023 3:54:21PM
		FS13 15'					
		E303140-03					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	unds by EPA 8260B mg/kg mg/kg Analyst: IY			Y		Batch: 2313071	
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
o-Xylene	ND	0.0250		1	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Fotal Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		107 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		102 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		107 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130		03/31/23	03/31/23	
urrogate: Toluene-d8		102 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313068
Diesel Range Organics (C10-C28)	187	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		97.8 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: E	BA		Batch: 2313075
Chloride	52.1	20.0		1	03/30/23	03/31/23	



		imple D					
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas (Com #001			
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moreno				4/3/2023 3:54:21PM
		FS14 15'					
]	E303140-04					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	Is by EPA 8260B mg/kg mg/kg Analyst: IY						Batch: 2313071
Benzene	ND	0.0250	1	l	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250	1	l	03/31/23	03/31/23	
Toluene	ND	0.0250	1	l	03/31/23	03/31/23	
p-Xylene	ND	0.0250	1	l	03/31/23	03/31/23	
o,m-Xylene	ND	0.0500	1	l	03/31/23	03/31/23	
Total Xylenes	ND	0.0250	1	l	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		101 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY	-		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		101 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2313068
Diesel Range Organics (C10-C28)	220	25.0	1	l	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	79.2	50.0	1	l	03/30/23	03/31/23	
Surrogate: n-Nonane		97.4 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA	A		Batch: 2313075
Chloride	49.9	20.0	1	l	03/30/23	03/31/23	



QC Summary Data

		<u><u>v</u>vv</u>	u	ii y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ederal G Gas C 058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					4/3/2023 3:54:21PM
	V	olatile Organic	: Compo	unds by EF	PA 8260B				Analyst: IY
Analyte		Reporting	Spike	Source		Rec	מתת	RPD	-
	Result mg/kg	Limit mg/kg	Level mg/kg	Result mg/kg	Rec %	Limits %	RPD %	Limit %	Notes
Blank (2313071-BLK1)							Prepared: 0	3/31/23 A	nalyzed: 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	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS1)]	Prepared: 0.	3/31/23 A	nalyzed: 03/31/23
Benzene	2.54	0.0250	2.50		102	70-130			
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130			
Toluene	2.48	0.0250	2.50		99.2	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
o,m-Xylene	4.91	0.0500	5.00		98.2	70-130			
Total Xylenes	7.49	0.0250	7.50		99.9	70-130			
Surrogate: Bromofluorobenzene	0.455		0.500		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			
LCS Dup (2313071-BSD1)]	Prepared: 0.	3/31/23 A	nalyzed: 03/31/23
Benzene	2.46	0.0250	2.50		98.5	70-130	3.12	23	
Ethylbenzene	2.39	0.0250	2.50		95.5	70-130	0.439	27	
Toluene	2.46	0.0250	2.50		98.4	70-130	0.830	24	
o-Xylene	2.55	0.0250	2.50		102	70-130	1.21	27	
p,m-Xylene	4.90	0.0500	5.00		97.9	70-130	0.306	27	
Total Xylenes	7.45	0.0250	7.50		99.3	70-130	0.616	27	
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			



QC Summary Data

		u Jy	uIIIII	aly Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	. (Federal G Gas C)1058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:54:21PM
Calisbad NW, 88220		, 0							ч/3/2023 - 3.3ч.211 W
	No	nhalogenated	Organics	s by EPA 801	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313071-BLK1)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS2)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.451		0.500		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			
LCS Dup (2313071-BSD2)							Prepared: 0	3/31/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.5	70-130	2.25	20	
Surrogate: Bromofluorobenzene	0.453		0.500		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			



QC Summary Data

		QU D	u 111111	ary Dau	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(Federal G Gas C)1058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:54:21PM
	Nonha	logenated Org	anics by	y 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
Blank (2313068-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			
LCS (2313068-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			
Matrix Spike (2313068-MS1)				Source:	E303140-(01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	471	25.0	250	183	115	38-132			
Surrogate: n-Nonane	48.8		50.0		97.5	50-200			
Matrix Spike Dup (2313068-MSD1)				Source:	E303140-(01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	449	25.0	250	183	107	38-132	4.73	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

		L L		•					
WPX Energy - Carlsbad		Project Name:	H	Federal G Gas (Com #001				Reported:
5315 Buena Vista Dr		Project Number:	(01058-0007					
Carlsbad NM, 88220		Project Manager	: (Gilbert Moreno					4/3/2023 3:54:21PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313075-BLK1)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	ND	20.0							
LCS (2313075-BS1)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	244	20.0	250		97.7	90-110			
Matrix Spike (2313075-MS1)				Source:	E303136-0	1	Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	565	20.0	250	327	95.4	80-120			
Matrix Spike Dup (2313075-MSD1)				Source:	E303136-0	1	Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	588	20.0	250	327	105	80-120	3.94	20	

QC Summary Report Comment:

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



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 15:54

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.



Release Project Information

81

Lilent: V	/PX Permi	an Energ	y, LLC			Bill To				Lak	b Us	e On	ly			1.1	1.1.10	TA	AT		EPA P	rogram
Project:	Federal G	Gas Con	n #001		Att	ention: Jim Raley	_	Lab V	VO#			Job	Num			1D	2D	3D	St	andard	CWA	SDW
Project I	Manager:	Gilbert N	loreno		Ad	dress: 5315 Buena Vista Dr.	1	FZ	03	40	5	OIC	58	:00	H	X			-54	Day TAT		
Address	: 3122 Nat	ional Par	ks HWY		Cit	y, State, Zip: Carlsbad, NM, 882	20				1	Analy	sis ar	nd Met	hod	-						RCRA
ity, Sta	te, Zip: Ca	rlsbad, N	M, 88220	V		one: 575-885-7502				δ												
	32-541-7				Em	ail: jim.raley@dvn.com		1		RO											State	
	evon-team		im.com		_	st Center: 1061164701		1		0/0	-	15		0		-	1		1.11	NM CO		TX
	d by: Yocc				-	ident ID: nAB1428733041		E -		/DB	802	260	010	300		NN	¥					
Time	Date		No. of		1		Lab	th(f		GRO	þ	by 8	als 6	ride		SC	ų		4		<u> </u>	1
Sampled	Sampled	Matrix	Containers			Sample ID	Number	Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC				Remarks	S
13:00	3.29.23	S	1			FS11	1	15'								х						
13:10	3.29.23	S	1			FS12	2	15'								х						
13:20	3.29.23	S	1			FS13	3	15'								х						
							2			_					_				-			
13:30	3.29.23	S	1			FS14	4	15'		_						х						
																	_					
										-	-				-	-		-				
								-		_					_	_				-		
ddition	al Instruc	tions:						1		- 1												
				city of this sample hay be grounds for		that tampering with or intentionally mislal		location,	,											on ice the day subsequent d	they are samp avs.	oled or receiv
elinquishe	ed by: (Signa		Date	Time		Sampled by: Gilbert Mor Received by: (Signature)) Wylllll (uth alk	Date	27	Time	100		Por	aivod	l on ic			b Us V N	e On	ly			
elinguishe	ed by: (Signa	ture)	Date	Time		Received by: (Signature)	Date 3-30-		Time			T1	IVCU	i on ic		12	y 14			<u>T3</u>		
elinquishe	ed by: (Signa		Date	Time		Received by: (Signatore)	Date 2.21.	R	Time	·LK	-		Tor	np °C_	4				_			
		- Solid So-		queous, O - Other		www.	Containe	Type	g - gla	1 22					hera	lass	V-V	00	-			
ote: Sam	oles are disc	arded 30 d	ays after res	ults are reported		ner arrangements are made. Hazardo	is samples will b	be returi	ned to	client	or di	ispose	d of a						port f	or the anal	ysis of the a	above
imples is	applicable o	nly to those	e samples re	eceived by the la	boratory w	ith this COC. The liability of the laborat	ory is limited to	the amo	ount pa	aid for	r on t	he rep	port.	1			_					
																		-			е	

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad Da	ate Received:	03/31/23 05	:45	Work Order ID: E303140
Phone:	(539) 573-4018 Da	ate Logged In:	03/30/23 14	:04	Logged In By: Alexa Michaels
Email:	devon-team@ensolum.com De	le Date:	03/31/23 17	:00 (0 day TAT)	
<u>Chain o</u>	<u>of Custody (COC)</u>				
1. Does	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location match	the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courier
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comments/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>				
6. Did th	he COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr rush
Sample	Cooler				
7. Was a	a sample cooler received?		Yes		
8. If yes	, was cooler received in good condition?		Yes		
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes		
10. Were	e custody/security seals present?		No		
11. If ye	es, were custody/security seals intact?		NA		
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re-		Yes		
13 If no	minutes of sampling o visible ice, record the temperature. Actual sample ter	nnerature: 4º	'n		
	Container	nperature. <u>1</u>	<u> </u>		
_	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	he head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?		Yes		
	e appropriate volume/weight or number of sample containers	collected?	Yes		
Field La	abel				
20. Were	e field sample labels filled out with the minimum inform	ation:			
ŝ	Sample ID?		Yes		
	Date/Time Collected?		Yes	L	
	Collectors name?		No		
_	<u>Preservation</u> s the COC or field labels indicate the samples were prese	muod9	N-		
	sample(s) correctly preserved?	1 vCU (No NA		
	b filteration required and/or requested for dissolved meta	ils?	NA No		
	· ·		110		
_	nase Sample Matrix		NT		
	s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed		No		
•		41	NA		
	tract Laboratory		3.7		
	samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so		No NA S	ubcontract Lab	
		who'l			

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fede

Federal G Gas Com #001

Work Order: E303141

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303141 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Received by OCD: 7/26/2023 9:27:22 AM			Page 2	55 of 521
	Sample Sum	mary		
WPX Energy - Carlsbad	Project Name:	Federal G Gas Com #001	Deperted	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:	

Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		04/03/23 15:55	
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
SW05 0-4'	E303141-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.	
SW06 0-4'	E303141-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.	
SW07 0-4'	E303141-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.	



	Da	imple D	uu				
WPX Energy - Carlsbad	Project Name:		eral G Gas C	Com #001			
5315 Buena Vista Dr	Project Number		58-0007				Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moreno				4/3/2023 3:55:57PM
	S	SW05 0-4'					
	I	2303141-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2313071
Benzene	ND	0.0250	1		03/31/23	03/31/23	
Ethylbenzene	ND	0.0250	1		03/31/23	03/31/23	
Toluene	ND	0.0250	1		03/31/23	03/31/23	
-Xylene	ND	0.0250	1		03/31/23	03/31/23	
o,m-Xylene	ND	0.0500	1		03/31/23	03/31/23	
Total Xylenes	ND	0.0250	1		03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130		03/31/23	03/31/23	
urrogate: Toluene-d8		103 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130		03/31/23	03/31/23	
urrogate: Toluene-d8		103 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0	1		03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1		03/30/23	03/31/23	
Surrogate: n-Nonane		105 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA			Batch: 2313076
Chloride	124	20.0	1		03/30/23	03/31/23	





	. Su	mpic D					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Project Number Project Manage	: 010:	eral G Gas 58-0007 ert Morenc		01		Reported: 4/3/2023 3:55:57PM
			en morene	,			10,2020 0.00.0711
	S	SW06 0-4'					
	ŀ	2303141-02					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
p,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		101 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		101 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2313068
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	03/31/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		106 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313076
Chloride	233	20.0		1	03/30/23	03/31/23	



	24	mpic D					
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number		eral G Gas 58-0007	Com #0	01		Reported:
Carlsbad NM, 88220	Project Manage	r: Gilb	ert Moreno)			4/3/2023 3:55:57PM
	S	SW07 0-4'					
	I	2303141-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Benzene	ND	0.0250		1	03/31/23	03/31/23	
Ethylbenzene	ND	0.0250		1	03/31/23	03/31/23	
Toluene	ND	0.0250		1	03/31/23	03/31/23	
p-Xylene	ND	0.0250		1	03/31/23	03/31/23	
p,m-Xylene	ND	0.0500		1	03/31/23	03/31/23	
Fotal Xylenes	ND	0.0250		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		105 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313071
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/23	03/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130		03/31/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		03/31/23	03/31/23	
Surrogate: Toluene-d8		105 %	70-130		03/31/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313068
Diesel Range Organics (C10-C28)	50.3	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	62.4	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		108 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313076
Chloride	148	20.0		1	03/30/23	03/31/23	



QC Summary Data

				il y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ederal G Gas C 1058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					4/3/2023 3:55:57PM
	V	olatile Organi	e Compo	unds by EF	PA 8260B	•			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313071-BLK1)							Prepared: 0.	3/31/23 A	nalyzed: 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	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS1)]	Prepared: 03	3/31/23 A	nalyzed: 03/31/23
Benzene	2.54	0.0250	2.50		102	70-130			
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130			
Toluene	2.48	0.0250	2.50		99.2	70-130			
p-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130			
Total Xylenes	7.49	0.0250	7.50		99.9	70-130			
Surrogate: Bromofluorobenzene	0.455		0.500		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			
LCS Dup (2313071-BSD1)							Prepared: 0.	3/31/23 A	nalyzed: 03/31/23
Benzene	2.46	0.0250	2.50		98.5	70-130	3.12	23	
Ethylbenzene	2.39	0.0250	2.50		95.5	70-130	0.439	27	
Toluene	2.46	0.0250	2.50		98.4	70-130	0.830	24	
o-Xylene	2.55	0.0250	2.50		102	70-130	1.21	27	
p,m-Xylene	4.90	0.0500	5.00		97.9	70-130	0.306	27	
Total Xylenes	7.45	0.0250	7.50		99.3	70-130	0.616	27	
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			



QC Summary Data

		•		ary Date					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	ederal G Gas C 1058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:55:57PM
· · · · · · · · · · · · · · · · · · ·	Noi	nhalogenated C	Organics	by EPA 80	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313071-BLK1)							Prepared: 0	3/31/23 A1	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.447		0.500		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS (2313071-BS2)							Prepared: 0	3/31/23 Ai	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.451		0.500		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			
LCS Dup (2313071-BSD2)							Prepared: 0	3/31/23 Ai	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.5	70-130	2.25	20	
Surrogate: Bromofluorobenzene	0.453		0.500		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			



QC Summary Data

		$\mathbf{x} \in \mathbf{z}$	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ary Date	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	(Federal G Gas C 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:	(Gilbert Moreno					4/3/2023 3:55:57PM
	Nonha	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313068-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			
LCS (2313068-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			
Matrix Spike (2313068-MS1)				Source:	E303140-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	471	25.0	250	183	115	38-132			
Surrogate: n-Nonane	48.8		50.0		97.5	50-200			
Matrix Spike Dup (2313068-MSD1)				Source:	E303140-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	449	25.0	250	183	107	38-132	4.73	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

		•		v					
WPX Energy - Carlsbad		Project Name:	F	ederal G Gas (Com #001				Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					•
Carlsbad NM, 88220		Project Manager:	C	ilbert Moreno					4/3/2023 3:55:57PM
		Anions	by EPA	300.0/90564	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313076-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	ND	20.0							
LCS (2313076-BS1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2313076-MS1)				Source:	E303141-0	1	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	371	20.0	250	124	99.0	80-120			
Matrix Spike Dup (2313076-MSD1)				Source:	E303141-0	1	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	384	20.0	250	124	104	80-120	3.22	20	

QC Summary Report Comment:

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



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 15:55

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.



Project li	nformatio	n			Cha	in of Custody											Page	of
Cliente	VPX Permi	an Enorg	V 11C		Bill To		10 m 10 m		abll	se On	hy .		1		TA	AT	FPA	rogram
	Federal G						1 -1- 14		ab Us		Num	hor	10	2D		Standard		SDWA
					Attention: Jim Raley Address: 5315 Buena Vista Dr.		Lab W	5211	11	100	Z	000	IV	20	150	-5 Day TAT		JUWA
	Manager:				City, State, Zip: Carlsbad, NM, 882	20	EQ	BIL	+1	10k		d Meth			1	5 buy ini		RCRA
12.22.2 KL SES 1.33	: 3122 Nat	A REAL PROPERTY OF	and the second states of the s			20			-	Analy	SIS al			1	1			I ICIA
	te, Zip: Ca		IIVI, 88220		Phone: 575-885-7502			d Ob									State	1
	332-541-7				Email: jim.raley@dvn.com			/OF								NINAL C	O UT AZ	
A CONTRACTOR OF THE R.	evon-tean				Cost Center: 1061164701			DRC	021	60	10	00.00	WN	X		INIVI C	U UI AZ	TX
Collecte	d by: Yocc	oly Edyte	Konan		Incident ID: nAB1428733041		(ft)	RO/	y 8(y 82	2 60	de 3		1.0		i di seconda internationale di seconda internationale di seconda internationale di seconda internationale di se		
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	BGDOC			Remark	s
9:00	3.29.23	S	1		SW05	1	0-4'						X					
9:10	3.29.23	S	1		SW06	2	0-4'						x					
9:20	3.29.23	S	1		SW07	3	0-4'						x					
																		13 of 14
										-	\vdash			-	-			Pade
Addition	al Instruc	tions:																
I, (field sam	pler), attest to	o the validity		icity of this sample. I nay be grounds for le	am aware that tampering with or intentionally mislal gal action. Sampled by: Gilbert Mor		location,			1.						ceived on ice the c 6 °C on subsequen		oled or received
Relinguish	ed by: (Signa P ed by: (Signa	ature) ature)	Date	30 123 Time 30 123 093	Received by: (Signature) Midleh Compares Received by: (Signature)	Date		Time OGOL Time	2	Rec	eivec	l on ice		ab L	Jse Or N	nly		
Relinquish	ed by: (Signa	uncle ature)//	Date	30.23 Time	Received by: (Sjenature)	2 30- Date	23	173. Time	0	<u>T1</u>	-	-	T2	-		<u> </u>		
	oren		1	30 23 23	13 UUUUU	531	65	0.	10			np°C	T		-			
Sample Mat	rix: S - Soil, Se	- Solid, Sg -	- Sludge, A - A	queous, O - Other		Containe												
					unless other arrangements are made. Hazardo pratory with this COC. The liability of the laborat							at the clie	ent expe	ense,	The re	port for the ar	alysis of the	above
									(M		e	n	V	i	ro	te	cł

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad D	ate Received:	03/31/23 0:	5:45	Work Order II	D: E303141
Phone:	(539) 573-4018 D	ate Logged In:	03/30/23 14	4:09	Logged In By:	Alexa Michaels
Email:		ue Date:	03/31/23 1	7:00 (0 day TAT)		
Chain o	<u>of Custody (COC)</u>					
	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	<u>'ourier</u>	
4. Was t	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		<u>Comm</u>	ents/Resolution
Sample	<u>Turn Around Time (TAT)</u>				<u> </u>	
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed th	e TAT to 24hr rush
<u>Sample</u>	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4°</u>	<u>'C</u>			
Sample	Container	· _				
_	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
16. Is th	he 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	e appropriate volume/weight or number of sample container	s collected?	Yes			
Field La	abel					
	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected? Collectors name?		Yes			
	Preservation		No			
	s the COC or field labels indicate the samples were pres	erved?	No			
Sample	S LIE COC UL HEILI IADEIS III LICALE LIE SAIIDIES WEIE DIES		NA			
<u>Sample</u> 21. Doe						
<u>Sample</u> 21. Doe 22. Are	sample(s) correctly preserved? b filteration required and/or requested for dissolved met	als?	No			
<u>Sample</u> 21. Doe 22. Are 24. Is la	sample(s) correctly preserved? b filteration required and/or requested for dissolved met	als?				
Sample 21. Doe 22. Are 24. Is la Multipl	sample(s) correctly preserved? b filteration required and/or requested for dissolved met nase Sample Matrix		No			
Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe	sample(s) correctly preserved? b filteration required and/or requested for dissolved met nase Sample Matrix s the sample have more than one phase, i.e., multiphase	,	No No			
Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye	sample(s) correctly preserved? b filteration required and/or requested for dissolved met nase Sample Matrix s the sample have more than one phase, i.e., multiphasef es, does the COC specify which phase(s) is to be analyze	,	No			
Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye Subcon	sample(s) correctly preserved? b filteration required and/or requested for dissolved met nase Sample Matrix s the sample have more than one phase, i.e., multiphase	d?	No No			

C

Date

envirotech Inc.

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

•





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fede

Federal G Gas Com #001

Work Order: E303142

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303142 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 reguarding 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.

Raina Schwanz

Respectfully,

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Sample Summary											
		F 1	100	~		_					

WPX Energy - Carlsbad			Federal G Gas Com	#001	Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:	01058-0007 Gilbert Moreno		04/03/23 16:00
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS15 6'	E303142-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS16 6'	E303142-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS17 6'	E303142-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



		ampie D						
WPX Energy - Carlsbad	Project Name:		eral G Gas Co	om #001				
5315 Buena Vista Dr	Project Number		58-0007			Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			4/3/2023 4:00:39PM		
		FS15 6'						
		E303142-01						
		Reporting						
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	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			
o,m-Xylene	ND	0.0500	1	03/30/23	03/31/23			
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23			
Surrogate: Bromofluorobenzene		113 %	70-130	03/30/23	03/31/23			
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	03/30/23	03/31/23			
Surrogate: Toluene-d8		97.6 %	70-130	03/30/23	03/31/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: SL		Batch: 2313072		
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23			
Surrogate: Bromofluorobenzene		113 %	70-130	03/30/23	03/31/23			
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	03/30/23	03/31/23			
Surrogate: Toluene-d8		97.6 %	70-130	03/30/23	03/31/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	nalyst: JL		Batch: 2313069		
Diesel Range Organics (C10-C28)	221	25.0	1	03/30/23	03/31/23			
Dil Range Organics (C28-C36)	187	50.0	1	03/30/23	03/31/23			
Surrogate: n-Nonane		111 %	50-200	03/30/23	03/31/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: BA		Batch: 2313076		
Chloride	66.0	20.0	1	03/30/23	03/31/23			



	~	mpic D					
WPX Energy - Carlsbad	Project Name:		ral G Gas	Com #0	01		
5315 Buena Vista Dr	Project Number		58-0007				Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moren	0			4/3/2023 4:00:39PM
		FS16 6'					
	ŀ	2303142-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	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	
p-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	
Surrogate: Bromofluorobenzene		100 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		108 %	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	
Surrogate: Bromofluorobenzene		100 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		108 %	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)	44.5	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		107 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313076
Chloride	93.2	20.0		1	03/30/23	03/31/23	



	~•	mpic D					
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas	Com #0	01		
5315 Buena Vista Dr	Project Numbe	r: 0103	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno	o		4/3/2023 4:00:39PM	
		FS17 6'					
		E303142-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	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	
p-Xylene	ND	0.0250		1	03/30/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		126 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		99.7 %	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	
Surrogate: Bromofluorobenzene		126 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		99.7 %	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)	ND	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		106 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313076
Chloride	365	20.0		1	03/30/23	03/31/23	



QC Summary Data

		QC B		v					
WPX Energy - Carlsbad		Project Name:		Federal G Gas G	Com #001				Reported:
5315 Buena Vista Dr		Project Number:	C	1058-0007					
Carlsbad NM, 88220		Project Manager	: (Gilbert Moreno			4/3/2023 4:00:39PM		
	V	olatile Organi	c Compo	ounds by EH	PA 8260E	;			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 03/31/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-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: 0	3/30/23 A	nalyzed: 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			
Foluene	2.16	0.0250	2.50		86.5	70-130			
o-Xylene	2.23	0.0250	2.50		89.2	70-130			
o,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: 0	3/30/23 A	nalyzed: 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	
o,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

		QC 5	umm	laly Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager		Federal G Gas C 01058-0007 Gilbert Moreno					Reported: 4/3/2023 4:00:39PM
	Noi	nhalogenated (es by EPA 80	15D - G	RO			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
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	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: 0	3/30/23 A	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: 0	3/30/23 A	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

		QC BI		ary Data	L				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	om #001				Reported: 4/3/2023 4:00:39PM
	Nonh	alogenated Orga	anics by	y 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
Blank (2313069-BLK1)							Proporad: 0		analyzed: 03/31/23
. ,							Flepaleu. 0	3/30/23 P	maryzeu. 05/51/25
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	51.0	50.0	50.0		102	50-200			
LCS (2313069-BS1)	51.0						Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			
Matrix Spike (2313069-MS1)				Source: I	E 303143 -	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	475	25.0	250	235	95.8	38-132			
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			
Matrix Spike Dup (2313069-MSD1)				Source: I	E 303143 -	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	492	25.0	250	235	103	38-132	3.55	20	
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			



QC Summary Data

		$\mathbf{x} \cup \mathbf{v}$								
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Report 4/3/2023 4:	
		Anions	by EPA	300.0/9056	1				Analyst: E	BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	No	
	0.0									
Blank (2313076-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 03/	31/23
Chloride	ND	20.0								
LCS (2313076-BS1)							Prepared: 0	3/30/23 A	Analyzed: 03/	31/23
Chloride	251	20.0	250		100	90-110				
Matrix Spike (2313076-MS1)	Matrix Spike (2313076-MS1) Source: E303141-01 Prepared: 03/							3/30/23 A	Analyzed: 03/	31/23
Chloride	371	20.0	250	124	99.0	80-120				
Matrix Spike Dup (2313076-MSD1)				Source:	E303141-0	1	Prepared: 0	3/30/23 A	Analyzed: 03/	31/23
Chloride	384	20.0	250	124	104	80-120	3.22	20		

QC Summary Report Comment:

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



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 16:00

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: W	/PX Permi	an Energy	, LLC				Bill To			Lab Use On			Only			TAT			Т		EPA Pr	ogram		
	Federal G					Atten	tion: Jin	n Raley							Job		ber	1D	2D	3D	Stand	lard	CWA	SDWA
Project N	Manager:	Gilbert M	oreno		Address: 5315 Buena Vista Dr.					E303142						.000				5 Day				
Address:	: 3122 Nat	ional Parl	ks HWY			City,	State, Zi	p: Carlsbad, NM, 88	220		-20176			F	Analysis and Metho			bc	-					RCRA
	te, Zip: Ca		M, 88220			Phon	e: 575-8	85-7502					γd											
PLACE MULTING ALL	32-541-77					Email	: jim.ral	ey@dvn.com					ORO								1.1		State	
	evon-team		the second se			Cost (Center:	1061164701					RO/	17	0	0	0.0	WN			NN	1 CO	UT AZ	TX
Collecter	d by: Yocc	ly Edyte	Konan			Incide	ent ID:	nAB1428733041			(ft)		d/0)	V 80.	826	6010	e 30		1X					
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID Num		Lab lumber	Depth(ft)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC				Remarks				
13:40	3.29.23	S	1			FS15					6'							x						
13:50	3.29.23	S	1			FS16				2	6'							x						
14:00 3.29.23 S 1		FS17				3	6'							х										
Addition	al Instruct	tions:																						
late or time Relinquishe Relinquishe McL	of collection ed by: (Signa P ed by: (Şigna	is considered ture) ture)	Date	y be grounds for 30/23 0 d 0 d 0 d 1 me Time	3;00	tion.	eceived b Migl eceived b	g with or intentionally misl <u>Sampled by:</u> <u>Gilbert M</u> (: (Signature) (: (Signature) (: (Signature) (: (Signature) (: (Signature)	Dat Dat Dat Dat	te 2-30- te te)} 23	Time D Time	900)	Rece	in ice a	on ice	mp above	0 but les		°C on subse		ey are sample	d or receiv
ample Matr	oles are disca		Sludge, A - Aqu ays after resu	leous, O - Other Its are reporte				ents are made. Hazard	Co lous sampl		Type: e	ned to	client	- poly or dis	sposed	tic, a	g - amb				ort for th	e analys	is of the at	pove

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad Dat	te Received:	03/31/23 05	:45	Work Order ID: E303142
hone:	(539) 573-4018 Dat	te Logged In:	03/30/23 14	:13	Logged In By: Alexa Michaels
Email:		e Date:	03/31/23 17	7:00 (0 day TAT)	
<u>Chain o</u>	of Custody (COC)				
1. Does	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location match the	he COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>ourier</u>
4. Was t	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes	_	Comments/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>				
6. Did tł	he COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr rus
<u>Sample</u>	Cooler				
7. Was a	a sample cooler received?		Yes		
8. If yes	, was cooler received in good condition?		Yes		
9. Was t	he sample(s) received intact, i.e., not broken?		Yes		
10. Wer	e custody/security seals present?		No		
11. If ye	es, were custody/security seals intact?		NA		
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are reco minutes of sampling		Yes		
13. If nc	o visible ice, record the temperature. Actual sample tem	perature: 4°	Ċ		
	Container		_		
-	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	he head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?		Yes		
19. Is the	e appropriate volume/weight or number of sample containers	collected?	Yes		
Field La	abel				
20. Wer	e field sample labels filled out with the minimum informa	tion:			
	Sample ID?		Yes		
	Date/Time Collected?		Yes	L	
	Collectors name?		No		
	<u>Preservation</u> s the COC or field labels indicate the samples were preser	wed?	Na		
	sample(s) correctly preserved?	veu	No NA		
	b filteration required and/or requested for dissolved metal	s?	NA No		
	• •		140		
	hase Sample Matrix				
26 D -	s the sample have more than one phase, i.e., multiphase?	n	No		
	es, does the COC specify which phase(s) is to be analyzed	ſ	NA		
27. If ye					
27. If ye <u>Subcon</u> t	tract Laboratory				
27. If ye <u>Subcont</u> 28. Are	tract Laboratory		No NA S	Subcontract Lab	

C

Date

envirotech Inc.

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

-





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Feder

Federal G Gas Com #001

Work Order: E303143

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303143 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Sample Summa	ary		
-	-	 	

WPX Energy - Carlsbad		Project Name:	Federal G Gas Con	n #001	Depented		
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:		
Carlsbad NM, 88220		Project Manager:			04/03/23 16:02		
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container		
SW15 6-15'	E303143-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.		
SW16 6-15'	E303143-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.		
SW17 6-15'	E303143-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.		



		impic D					
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numbe		eral G Gas 58-0007	Com #0	01		Des este de
Carlsbad NM, 88220	Project Numbe Project Manag			Reported: 4/3/2023 4:02:20PM			
			ent morene	, 			
	S	SW15 6-15'					
		E303143-01					
		Reporting					
Analyte	Result	Limit	Dilı	ition	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	
p-Xylene	ND	0.0250		1	03/30/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		92.8 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		104 %	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	
Surrogate: Bromofluorobenzene		92.8 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		104 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg		Analyst:	JL		Batch: 2313069
Diesel Range Organics (C10-C28)	235	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	237	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		97.4 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313076
Chloride	65.5	20.0		1	03/30/23	03/31/23	



		impic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas (Com #00	1		
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moreno		4/3/2023 4:02:20PM		
	S	SW16 6-15'					
	1	E303143-02					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: S	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	
-Xylene	ND	0.0250		1	03/30/23	03/31/23	
,m-Xylene	ND	0.0500		1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	:	1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		92.4 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/30/23	03/31/23	
urrogate: Toluene-d8		103 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	SL		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	03/30/23	03/31/23	
urrogate: Bromofluorobenzene		92.4 %	70-130		03/30/23	03/31/23	
urrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/30/23	03/31/23	
urrogate: Toluene-d8		103 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	IL		Batch: 2313069
Diesel Range Organics (C10-C28)	39.8	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	1	03/30/23	03/31/23	
urrogate: n-Nonane		94.9 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	BA		Batch: 2313076
Chloride	208	20.0		1	03/30/23	03/31/23	



		impic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas C	Com #001			
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno		4/3/2023 4:02:20PM		
	S	SW17 6-15'					
	-	E303143-03					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	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	
Surrogate: Bromofluorobenzene		91.7 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		103 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: SL			Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		91.7 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		103 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2313069
Diesel Range Organics (C10-C28)	ND	25.0	1		03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1		03/30/23	03/31/23	
Surrogate: n-Nonane		97.4 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA			Batch: 2313076
Chloride	129	20.0	1		03/30/23	03/31/23	



QC Summary Data

WPX Energy - Carlsbad		Project Name:	Fe	deral G Gas G			Reported:				
5315 Buena Vista Dr		Project Number:	01	058-0007					ineporteu.		
Carlsbad NM, 88220	Project Manager:			lbert Moreno		4/3/2023 4:02:20PM					
	V	olatile Organic	Compo	unds by EI	PA 8260E	;			Analyst: SL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 03/31/23		
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
o-Xylene	ND	0.0250									
o,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)	Prepar							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					
Foluene	2.16	0.0250	2.50		86.5	70-130					
o-Xylene	2.23	0.0250	2.50		89.2	70-130					
o,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: 0	3/30/23 A	nalyzed: 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			
Foluene	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			
o,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

		QU N	u	ary Dat	4						
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas Com #001 01058-0007 Gilbert Moreno					Reported: 4/3/2023 4:02:20PM		
	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		
	6 0	6 0	00	00		,,,	,,,				
Blank (2313072-BLK1)							Prepared: 0	3/30/23 Ai	nalyzed: 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: 0	3/30/23 Ai	nalyzed: 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: 0	3/30/23 Ai	nalyzed: 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

		QU D	u 111111		•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas C 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					4/3/2023 4:02:20PM
	Nonha	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313069-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			
LCS (2313069-BS1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			
Matrix Spike (2313069-MS1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Diesel Range Organics (C10-C28)	475	25.0	250	235	95.8	38-132			
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			
Matrix Spike Dup (2313069-MSD1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Diesel Range Organics (C10-C28)	492	25.0	250	235	103	38-132	3.55	20	
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			



QC Summary Data

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WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas (01058-0007	Com #001				Rep	orted:
Carlsbad NM, 88220		Project Manager		Gilbert Moreno					4/3/2023	4:02:20PM
		Anions	by EPA	300.0/9056	4				Analyst	: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%]	Notes
Blank (2313076-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	ND	20.0								
LCS (2313076-BS1)							Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	251	20.0	250		100	90-110				
Matrix Spike (2313076-MS1)				Source:	E303141-	01	Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	371	20.0	250	124	99.0	80-120				
Matrix Spike Dup (2313076-MSD1)				Source:	E303141-	01	Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	384	20.0	250	124	104	80-120	3.22	20		

QC Summary Report Comment:

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



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 16:02

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: W	/PX Permi	an Energy	y, LLC			Bill To				La	b Us	e Onl	y				TA	Т	EPA P	rogram
	Federal G					ention: Jim Raley		Lat	b WC)#		I doL	Num	ber	1D	2D	3D	Standard	CWA	SDWA
	/lanager:				Add	ress: 5315 Buena Vista Dr.		E	30:	314	3	OIG	38	-0007	X			5 Day TAT		
Address:	3122 Nat	ional Par	ks HWY		City	, State, Zip: Carlsbad, NM, 88	220					Analys	is an	d Method	1					RCRA
	te, Zip: Ca		M, 88220		Pho	ne: 575-885-7502				yd C										
	32-541-77				Ema	il: jim.raley@dvn.com				/OR(-								State	
	evon-team				Cos	t Center: 1061164701		_		DRO,	21	20	0	0.00	WN			NM CO	UT AZ	TX
Collected	by: Yoco	ly Edyte	Konan		Inci	dent ID: nAB1428733041	1	(#)	hill	RO/I	y 80	y 82	\$ 601	de 3(TX				
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Lab Numbe	Danth(ft)	naha	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC			Remarks	6-
10:40	3.29.23	S	1			SW15	1	6-1	15'						х					
10:50	3.29.23	S	1			SW16	3	6-1	15'						х					
11:00	3.29.23	S	1			SW17	3	6-1	15'						х					
, (field samp	oler), attest to	the validity				that tampering with or intentionally mis Sampled by: Gilbert N		ole locat	tion,									eived on ice the day °C on subsequent d	a second a second	led or recei
they	P		Date	Time		Received by: (Signature) Michael Canpal Received by: (Signature)	Date	2-25) Tir	0900 ne		Rece	ived	on ice:	0	ab Us / N	e On	ly		
her	idea Jamped Imped Jamped idea 3.29.23 S 1 :50 3.29.23 S 1 :00 3.29.23 S 1 Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped Imped	30	Reseived by: (Stenature)	Date 3.3	1.22	3 2	732 5:L	5	T1 AVG		g - amber	<u>T2</u> +	V - V	04	<u></u> <u>T3</u>					
lote: Samp		Its are reported			lous samples wil	ll be re	turne	d to clier	nt or d	ispose	d of a					port for the anal	ysis of the a	above		
amples is a		ceived by the lab	oratory wi	h this COC. The liability of the labor	atory is limited i	to the a	amou	nt paid f	or on t	the rep	ort.		_		_		_			

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad	Date Received:	03/31/23 05	:45	Work Order ID: E303143
Phone:	(539) 573-4018	Date Logged In:	03/30/23 14	:17	Logged In By: Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	03/31/23 17	:00 (0 day TAT)	
Chain o	of Custody (COC)				
1. Does	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location mat	ch the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	ourier
4. Was t	he COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		Yes	_	Comments/Resolution
Sample	<u>Turn Around Time (TAT)</u>				
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr rush
<u>Sample</u>	Cooler				
7. Was a	a sample cooler received?		Yes		
8. If yes	, was cooler received in good condition?		Yes		
9. Was t	he sample(s) received intact, i.e., not broken?		Yes		
10. Wer	e custody/security seals present?		No		
11. If ye	es, were custody/security seals intact?		NA		
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes		
13. If no	o visible ice, record the temperature. Actual sample	temperature: 4°	С		
	Container				
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	he head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?		Yes		
	e appropriate volume/weight or number of sample contain		Yes		
Field La	abel				
	e field sample labels filled out with the minimum info	rmation:			
	Sample ID?		Yes		
	Date/Time Collected?		Yes	L	
	Collectors name?		No		
	<u>Preservation</u> s the COC or field labels indicate the samples were pr	acamiad?	Na		
	s the COC or held labels indicate the samples were pr sample(s) correctly preserved?	C3C1 VEU ?	No NA		
	b filteration required and/or requested for dissolved m	etals?	NA No		
	• •		TAO		
	hase Sample Matrix	109	N		
	s the sample have more than one phase, i.e., multiphases, does the COC specify which phase(s) is to be analy		No		
∠1. II ye		ZCU!	NA		
a .	tract Laboratory				
	· · · · · · · · · · · · · · · · · · ·	0			
28. Are	samples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if	•	No NA S	Subcontract Lab	

B

Date

envirotech Inc.

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

•





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Federa

Federal G Gas Com #001

Work Order: E303144

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303144 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 reguarding 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

Field Offices:

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Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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		Sample Sum	mary		Ŭ
WPX Energy - Carlsbad		Project Name:	Federal G Gas Con	n #001	Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:	01058-0007 Gilbert Moreno		04/03/23 16:01
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW18 0-2'	E303144-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



		imple D					
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas (Com #00)1		
5315 Buena Vista Dr	Project Numbe	er: 010	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno				4/3/2023 4:01:23PM
		SW18 0-2'					
		E303144-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: S	SL		Batch: 2313072
Benzene	ND	0.0250	1	l	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	l	03/30/23	03/31/23	
Toluene	ND	0.0250	1	l	03/30/23	03/31/23	
p-Xylene	ND	0.0250	1	l	03/30/23	03/31/23	
o,m-Xylene	ND	0.0500	1	l	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	l	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		99.6 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		100 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	SL		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		99.6 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		100 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	IL		Batch: 2313069
Diesel Range Organics (C10-C28)	274	25.0	1	l	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	190	50.0	1	l	03/30/23	03/31/23	
Surrogate: n-Nonane		98.5 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:]	BA		Batch: 2313076
Chloride	274	20.0	1	l	03/30/23	03/31/23	



QC Summary Data

WPX Energy - Carlsbad		Project Name:	F	ederal G Gas (Com #001				Demented
5315 Buena Vista Dr		Project Number:		1058-0007					Reported:
Carlsbad NM, 88220		Project Manager		ilbert Moreno					4/3/2023 4:01:23PM
	V	olatile Organi	c Compo	ounds by EI	PA 8260B				Analyst: SL
			-	-					Allalyst. SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	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			
Foluene	2.16	0.0250	2.50		86.5	70-130			
p-Xylene	2.23	0.0250	2.50		89.2	70-130			
o,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: 0	3/30/23 A	nalyzed: 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			
	0.517								



QC Summary Data

		QC D	umm	ary Data	ı							
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 4:01:23PM			
	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			
			g ng		70	70	70	70	Notes			
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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

		QU N			-				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas 0 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					4/3/2023 4:01:23PM
	Nonha	alogenated Org	anics by	y EPA 8015E) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313069-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			
LCS (2313069-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			
Matrix Spike (2313069-MS1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	475	25.0	250	235	95.8	38-132			
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			
Matrix Spike Dup (2313069-MSD1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	492	25.0	250	235	103	38-132	3.55	20	
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			



QC Summary Data

			•	····· J – ····						
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas (01058-0007	Com #001				Repo	orted:
Carlsbad NM, 88220		Project Manager		Gilbert Moreno					4/3/2023	4:01:23PM
		Anions	by EPA	300.0/9056	4				Analyst	BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	1	Notes
Blank (2313076-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	ND	20.0								
LCS (2313076-BS1)							Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	251	20.0	250		100	90-110				
Matrix Spike (2313076-MS1)				Source:	E303141-	01	Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	371	20.0	250	124	99.0	80-120				
Matrix Spike Dup (2313076-MSD1)				Source:	E303141-	01	Prepared: 0	3/30/23 A	Analyzed: 0	3/31/23
Chloride	384	20.0	250	124	104	80-120	3.22	20		

QC Summary Report Comment:

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



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 16:01

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.



lient: V	PX Permi	an Energy	y, LLC		Bill To				Lab Use Only								1.1	TA	EPA Pr	rogram		
	Federal G				Att	Attention: Jim Raley			WO	#		Job	Num	ber		1D 2D 3D			Stand	dard	CWA	SDW.
	/lanager: (Address: 5315 Buena Vista Dr.			0-	3144	1	010	SA	5.00	JH,	X			-5 Day	TAT		
	3122 Nat					, State, Zip: Carlsbad, NM, 882	20				•			d Meth			-					RCRA
	e, Zip: Ca					Phone: 575-885-7502			T	þλ									1			
	32-541-77					Email: jim.raley@dvn.com				ORO				-							State	
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Time	Date	.,,	No. of	1			Lab	th(f		GRC	by	by 8	als 6	ride		S	Q				0.139.02	
Sampled	Sampled	Matrix	Containers			Sample ID	Numbe	Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC				Remarks	
11:10	3.29.23	S	1			SW18		0-2								х						
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	and parts of the		and authent	icity of this sample.	I am aware	that tampering with or intentionally misla	belling the samp	le locatio	on,			Sample	s requi	ring therr	mal pres	servati	ion mu	st be rea	ceived on ic	e the day ti	ney are sample	ed or rece
				nay be grounds for		Sampled by: Gilbert Mo						packed	In Ice a	at an avg t	temp ab	oove 0	but les	ss than 6	5 °C on subs	equent day	/S.	
linquish	ed by: (Signa	ture)	Date D.3	130123 09	:00	Received by: (Signature) MICULA Cunzule	Date 3.30	1.23	Tin	ne 902	5	Rece	aived	on ice	e. (e On	ly			
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pue Mat	ix: S - Soil, Sd		m /-	30-25 2 queous, 0 - Other_	315	mun	Contair	er Type	:g-	glass, p	1) - po	AVG	_		ber gl	lass,	, v - V	/OA				
te: Sam	oles are disca	arded 30 da	ays after re	sults are reported		er arrangements are made. Hazardo th this COC. The liability of the labora	ous samples wi	ll be retu	urned	to clier	nt or c	lispose	d of a						port for t	he analy	sis of the a	bove
ipica ia	sppireable of	ing to those	e sumpres n	conver by the lat		en ens coler mendoling of the labora	tory is inneed		loui	- poid it			-			-		-		14	e	-

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad Da	te Received:	03/31/23 05	:45	Work Order ID: E303144
Phone:	(539) 573-4018 Da	te Logged In:	03/30/23 14	21	Logged In By: Alexa Michaels
Email:		e Date:	03/31/23 17	:00 (0 day TAT)	
<u>Chain c</u>	<u>of Custody (COC)</u>				
1. Does	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location match t	he COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	ourier
4. Was t	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes	_	Comments/Resolution
<u>Sample</u>	Turn Around Time (TAT)				
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr rush
<u>Sample</u>	Cooler				
	a sample cooler received?		Yes		
8. If yes	, was cooler received in good condition?		Yes		
9. Was t	he sample(s) received intact, i.e., not broken?		Yes		
10. Wer	e custody/security seals present?		No		
11. If ye	es, were custody/security seals intact?		NA		
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes		
13. If no	o visible ice, record the temperature. Actual sample tem	perature: 4°	Ċ		
	Container				
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	he head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?		Yes		
	e appropriate volume/weight or number of sample containers	collected?	Yes		
Field La	abel				
	e field sample labels filled out with the minimum informa	tion:			
	Sample ID?		Yes		
	Date/Time Collected?		Yes	L	
	Collectors name?		No		
	<u>Preservation</u> s the COC or field labels indicate the samples were preser	rued?	No		
Sample		veu?	No NA		
<u>Sample</u> 21. Doe			INA		
Sample 21. Doe 22. Are	sample(s) correctly preserved?	ls?	No		
<u>Sample</u> 21. Doe 22. Are 24. Is la	sample(s) correctly preserved? b filteration required and/or requested for dissolved metal	ls?	No		
Sample 21. Doe 22. Are 24. Is la Multiph	sample(s) correctly preserved? b filteration required and/or requested for dissolved metal nase Sample Matrix	ls?			
Sample 21. Doe 22. Are 24. Is la Multiph 26. Doe	sample(s) correctly preserved? b filteration required and/or requested for dissolved metal nase Sample Matrix s the sample have more than one phase, i.e., multiphase?		No		
Sample 21. Doe 22. Are 24. Is la Multiph 26. Doe 27. If ye	sample(s) correctly preserved? b filteration required and/or requested for dissolved metal nase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed				
Sample 21. Doe 22. Are 24. Is la Multiph 26. Doe 27. If ye Subcom	sample(s) correctly preserved? b filteration required and/or requested for dissolved metal nase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed tract Laboratory		No NA		
Sample 21. Doe: 22. Are 24. Is la Multiph 26. Doe: 27. If ye Subcom 28. Are	sample(s) correctly preserved? b filteration required and/or requested for dissolved metal nase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed	?	No NA No	ubcontract Lab	

C

envirotech Inc.

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

Date





5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Federa

Federal G Gas Com #001

Work Order: E303145

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303145 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 reguarding 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

Field Offices:

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

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		Sample Summary								
WPX Energy - Carlsbad		Project Name:	Federal G Gas Con	n #001	Depented					
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:					
Carlsbad NM, 88220		Project Manager:	anager: Gilbert Moreno		04/03/23 16:00					
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container					
SW24 0-4'	E303145-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.					



		ampic D					
WPX Energy - Carlsbad	Project Name:	: Fede	eral G Gas	Com #00)1		
5315 Buena Vista Dr	Project Numb	er: 0105	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno)			4/3/2023 4:00:17PM
		SW24 0-4'					
		E303145-01					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2313072
Benzene	ND	0.0250	1	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	1	03/30/23	03/31/23	
p-Xylene	ND	0.0250	1	1	03/30/23	03/31/23	
o,m-Xylene	ND	0.0500	1	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	I	1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		110 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		99.8 %	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	
Surrogate: Bromofluorobenzene		110 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		99.8 %	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)	ND	25.0	:	1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	1	03/30/23	03/31/23	
Surrogate: n-Nonane		106 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313076
Chloride	ND	20.0	:	1	03/30/23	03/31/23	



QC Summary Data

WPX Energy - Carlsbad		Project Name:	न	ederal G Gas (Com #001				
5315 Buena Vista Dr		Project Number:		1058-0007	2011 // 001				Reported:
Carlsbad NM, 88220		Project Manager		Gilbert Moreno					4/3/2023 4:00:17PM
Carisbau IVIVI, 86220		Tiojeet Mailager	. (4/5/2025 4.00.1711
	V	olatile Organi	c Compo	ounds by El	PA 8260B	•			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	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			
Foluene	2.16	0.0250	2.50		86.5	70-130			
p-Xylene	2.23	0.0250	2.50		89.2	70-130			
o,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: 0	3/30/23 A	nalyzed: 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	
o,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

		QC D	umm	ary Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 4:00:17PM
	Noi	nhalogenated C	Organic	s by EPA 801	15D - GI	RO			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
DL1- (2212072 DI 1/1)									nalyzed: 03/31/23
Blank (2313072-BLK1) Gasoline Range Organics (C6-C10)	ND	20.0					Prepared: 0	5/50/25 A	maryzed: 05/51/25
Surrogate: Bromofluorobenzene	0.466	20.0	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: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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

		QU N	amm		-				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas 0 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					4/3/2023 4:00:17PM
	Nonha	alogenated Org	anics by	y EPA 8015E) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313069-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			
LCS (2313069-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			
Matrix Spike (2313069-MS1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	475	25.0	250	235	95.8	38-132			
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			
Matrix Spike Dup (2313069-MSD1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	492	25.0	250	235	103	38-132	3.55	20	
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			



QC Summary Data

			•							
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name:		Federal G Gas	Com #001				Repor	rted:
		Project Number:		01058-0007					1/2/2022	00.1501
Carlsbad NM, 88220		Project Manager	:	Gilbert Moreno					4/3/2023 4	:00:17PM
		Anions	by EPA	300.0/9056	4				Analyst:	BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	N	otes
Blank (2313076-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 03	/31/23
Chloride	ND	20.0								
LCS (2313076-BS1)							Prepared: 0	3/30/23 A	Analyzed: 03	/31/23
Chloride	251	20.0	250		100	90-110				
Matrix Spike (2313076-MS1)				Source:	E303141-	01	Prepared: 0	3/30/23 A	Analyzed: 03	/31/23
Chloride	371	20.0	250	124	99.0	80-120				
Matrix Spike Dup (2313076-MSD1)				Source:	E303141-	01	Prepared: 0	3/30/23 A	Analyzed: 03	/31/23
Chloride	384	20.0	250	124	104	80-120	3.22	20		

QC Summary Report Comment:

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



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 16:00

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.



Page	1	of	Rec
0			ei.

Client: W	/PX Permi	an Energy	, LLC			Bill To				Lab	USE	Only	1				TA	T	EPA Pr	rogram
Project: Federal G Gas Com #001 Project Manager: Gilbert Moreno Address: 3122 National Parks HWY City, State, Zip: Carlsbad, NM, 88220			Attention: Jim Raley			Lab V	Lab WO# Job Number		ber	1D	2D	3D	Standard	CWA	SDW					
			Address: 531	Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220			03	14	3	Analysis and Method		AX			5 Day TAT					
			City, State, Zi						A			od					RCR			
			Phone: 575-8	85-7502		1				TÍ						1				
	32-541-77				Email: jim.raley@dvn.com Cost Center: 1061164701					ORC									State	
	evon-team									RO/	51	0	0	0.0	WN			NM CC	UT AZ	TX
Collected	by: Yoco	ly Edyte I	Konan		Incident ID:	nAB1428733041	_	(£		0/0	y 80	826	601	e 30		TX				
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	BGDOC			Remarks	
12:10	3.29.23	S	1		SW24		1	0-4'							x					
	al Instruct																			
date or time Relinquishe		s considered ture)	I fraud and ma Date D31	ay be grounds for le Time 30123 09 Time	egal action. Received by	g with or intentionally mislabell <u>Sampled by: Gilbert Moreno</u> (: (Signature))	Date 30.	23	Time 09 Time	00	_	packed	in ice at		mp above	0 but le		eived on ice the day °C on subsequent c ly		ed or rec
Relinquishe	d by: (Signa	- Solid, Sg - S	Sludge, A - Aqu	0 23 231 ueous, 0 - Other_	15 Réceived by	Lung Len : (Signature) AULA	Date Date 3'31 Containe	·23 er Type:	Time 5 g - gla		5 - poly		tic, a	g - amb				<u></u> <u>T3</u>		
					unless other arrangem oratory with this COC.	ents are made. Hazardous								the clie	nt expe	nse.	The rep	port for the ana	ysis of the at	bove

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad D	ate Received:	03/31/23 05	5:45	Work Orde	er ID:	E303145
Phone:	(539) 573-4018 D	ate Logged In:	03/30/23 14	1:24	Logged In	By:	Alexa Michaels
Email:	devon-team@ensolum.com	ue Date:	03/31/23 17	7:00 (0 day TAT)		-	
Chain of	<u>f Custody (COC)</u>						
1. Does t	the sample ID match the COC?		Yes				
2. Does t	the number of samples per sampling site location match	the COC	Yes				
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	ourier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requester	d analyses?	Yes				
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		<u>Co</u>	mmer	nts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>						THE 041 1
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed	1 the	IAI to 24hr rush
Sample	<u>Cooler</u>						
	sample cooler received?		Yes				
3. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If yes	s, were custody/security seals intact?		NA				
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4°</u>	<u>°C</u>				
Sample	<u>Container</u>						
_	aqueous VOC samples present?		No				
15. Are V	VOC samples collected in VOA Vials?		NA				
16. Is the	e 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 1	non-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample container	s collected?	Yes				
Field La	<u>bel</u>						
	e field sample labels filled out with the minimum inform	nation:					
	Sample ID?		Yes				
	Date/Time Collected? Collectors name?		Yes No				
	Preservation_		110				
	the COC or field labels indicate the samples were pres	erved?	No				
	sample(s) correctly preserved?		NA				
24. Is lat	o filteration required and/or requested for dissolved met	als?	No				
<u>Multip</u> h	ase Sample Matrix						
-	the sample have more than one phase, i.e., multiphase	2	No				
	s, does the COC specify which phase(s) is to be analyze		NA				
Subcont	ract Laboratory						
			ЪT				
28. Are s	samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so		No				

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Feder

Federal G Gas Com #001

Work Order: E303146

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303146 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Definitions and Notes	12
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Sample Summary

		Sample Sum	mai y		
WPX Energy - Carlsbad		Project Name:	Federal G Gas Con	n #001	Deperted
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		04/03/23 15:59
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW12 0-6'	E303146-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
SW13 0-6'	E303146-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
SW14 0-6'	E303146-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



	~•	impic D					
WPX Energy - Carlsbad	Project Name:		eral G Gas C				
5315 Buena Vista Dr	Project Numbe		58-0007		Reported:		
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno	4/3/2023 3:59:07PM			
		SW12 0-6'					
		E303146-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	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	
p-Xylene	ND	0.0250	1	l	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	l	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1		03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		95.0 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		105 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	L		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		95.0 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		105 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg		Analyst: J	L		Batch: 2313069
Diesel Range Organics (C10-C28)	83.4	25.0	1		03/30/23	03/31/23	
Dil Range Organics (C28-C36)	63.1	50.0	1		03/30/23	03/31/23	
Surrogate: n-Nonane		108 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: E	BA		Batch: 2313076
Chloride	89.2	20.0	1	l	03/30/23	03/31/23	



		impic D					
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas	Com #00)1		
5315 Buena Vista Dr	Project Numbe	r: 010:	58-0007			Reported:	
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Morenc	4/3/2023 3:59:07PM			
		SW13 0-6'					
]	E303146-02					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: S	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	
o,m-Xylene	ND	0.0500		1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		93.7 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		103 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	SL		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/30/23	03/31/23	
urrogate: Bromofluorobenzene		93.7 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/30/23	03/31/23	
urrogate: Toluene-d8		103 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	IL		Batch: 2313069
Diesel Range Organics (C10-C28)	25.7	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		108 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	BA		Batch: 2313076
Chloride	103	20.0		1	03/30/23	03/31/23	



		imple D	uu				
WPX Energy - Carlsbad	Project Name:		eral G Gas				
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moren	4/3/2023 3:59:07PM			
		SW14 0-6'					
	-	E303146-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	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	
p-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	
Surrogate: Bromofluorobenzene		94.5 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		104 %	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	
Surrogate: Bromofluorobenzene		94.5 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		104 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2313069
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		109 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313076
Chloride	35.9	20.0		1	03/30/23	03/31/23	


QC Summary Data

			umma	ary Data	4				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ederal G Gas C 1058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					4/3/2023 3:59:07PM
	V	olatile Organio	c Compo	unds by EF	PA 8260B	;			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	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			
o,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: 0	3/30/23 A	nalyzed: 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	
p-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			



QC Summary Data

		QC D	uIIIII	ary Data	1				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:59:07PM
	Noi	nhalogenated C	Organic	s by EPA 801	5D - GI	RO			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
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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

		QU N		ary Date					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	-	Federal G Gas 0 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:	(Gilbert Moreno					4/3/2023 3:59:07PM
	Nonh	alogenated Org	anics by	y EPA 8015E) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313069-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			
LCS (2313069-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			
Matrix Spike (2313069-MS1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	475	25.0	250	235	95.8	38-132			
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			
Matrix Spike Dup (2313069-MSD1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	492	25.0	250	235	103	38-132	3.55	20	
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			



QC Summary Data

		C	•	J					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas (01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager		Gilbert Moreno					4/3/2023 3:59:07PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313076-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	ND	20.0							
LCS (2313076-BS1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2313076-MS1)				Source:	E303141-(01	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	371	20.0	250	124	99.0	80-120			
Matrix Spike Dup (2313076-MSD1)				Source:	E303141-(01	Prepared: 0	3/30/23 A	Analyzed: 03/31/23
Chloride	384	20.0	250	124	104	80-120	3.22	20	

QC Summary Report Comment:

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



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 15:59

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.



	/PX Permi					Bill To				Lat		e Only			-		TA		EPA P	rogram
	Federal G					ntion: Jim Raley		Lab W	10#			Job N	lum	ber	1D	2D	3D	Standard	CWA	SDW
	Aanager: (ress: 5315 Buena Vista Dr.		EZ	53	140	0	GIG	8	0007	HX	1		5 Day TAT		
	3122 Nat					State, Zip: Carlsbad, NM, 882	220				F	Analys	is an	d Metho	bd .					RCR
	te, Zip: Ca		M, 88220			ne: 575-885-7502				O by										
	32-541-77					il: jim.raley@dvn.com		4 1		/OR			- 23						State	1
	evon-team				Cost Center: 1061164701 Incident ID: nAB1428733041				t) D/DRC	DRO	021	260	10	00.00	WN	X		NM CO	UT AZ	TX
	by: Yoco	ny Euvre					Link	h(ft)		RO/	by 8	oy 82	ls 60	ide 3		-				
Time Sampled	Date Sampled	Matrix	No. of Containers	1.1	Sample ID		Lab Number	Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC			Remarks	
10:10	3.29.23	S	1			SW12	1	0-6'							X					
10:20	3.29.23	S	1			SW13	2	0-6'							X					
10:30	3.29.23	S	1			SW14	3	0-6'							X					
ddition	al Instruct	tions:																		
(field samp	oler), attest to	the validity	and authentic	ity of this sample. 1a	am aware ti	nat tampering with or intentionally misla	abelling the sample	location,			-	Samples	requi	ing therma	l preserv	ation mi	ust be rec	ceived on ice the day	they are sampl	ed or rece
elinquishe	ed by: (Signa	ture)	Date 0315	ay be grounds for leg 30/23 091	00	Sampled by: Gilbert Mo Received by: (Signature)) Miguelle Genzal	es 3-30-	23	00	700				on ice:	_		se On	s °C on subsequent di Iy	ays.	
Mau	ed by: (Signa	ayals	Date J-3	-01 11	30	Received by: (Signature)	Date 330	23	_	30		<u>T1</u>			<u>T2</u>			<u>T3</u>		
ho	ed by: (Signa	v te		SOZ3 Z3		Received by: (Signature)	Date 3.31.		Time 5	:4	5	AVG	Tem	p°C	4					
				ueous, O - Other		012	Containe													
						r arrangements are made. Hazardon this COC. The liability of the labora								t the clier	nt expe	ense.	The rep	port for the analy	ysis of the a	bove

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	WPX Energy - Carlsbad	ate Received:	03/31/23 05:4	45	Work Order ID: E303146	
hone:	(539) 573-4018 D	ate Logged In:	03/30/23 14:2	26	Logged In By: Alexa Michaels	5
Email:		Due Date:	03/31/23 17:	00 (0 day TAT)		
Chain o	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does f	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	ourier	
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.		Yes		Comments/Resolution	
<u>Sample '</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr	rush
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re-		Yes			
13 If no	minutes of sampling visible ice, record the temperature. Actual sample te	mnerature: 4º	C			
	Container	mperature. <u>1</u>	<u>c</u>			
14 Ares	aqueous VOC samples present?		No			
	aqueous VOC samples present?		No NA			
15. Are V	VOC samples collected in VOA Vials?		NA			
15. Are V 16. Is the	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)?		NA NA			
15. Are V 16. Is the 17. Was	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses?		NA NA NA			
15. Are V 16. Is the 17. Was 18. Are 1	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?	s collected?	NA NA NA Yes			
 15. Are V 16. Is the 17. Was 18. Are 1 19. Is the 	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container	s collected?	NA NA NA			
 Are V Is the Is the Was Are 1 Are 1 Is the Field La 	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container		NA NA NA Yes			
 Are V Is the Is the Are 1 Are 1 Is the Field La Were 	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel		NA NA NA Yes			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bbel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		NA NA NA Yes Yes			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? a appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		NA NA Yes Yes			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S I C Sample	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation	nation:	NA NA Yes Yes Yes No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S I C Sample 21. Does	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pres	nation:	NA NA Yes Yes Yes No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S I C Sample 21. Does 22. Are s	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pres sample(s) correctly preserved?	nation: erved?	NA NA Yes Yes Yes No No NA			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were <u>Sample</u> 21. Does 22. Are s 24. Is lab	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met	nation: erved?	NA NA Yes Yes Yes No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were Sample 21. Does 22. Are s 24. Is lab	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation 5 the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix	nation: erved? als?	NA NA Yes Yes Yes No No NA No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were Sample 21. Does 22. Are s 24. Is lab Multiph 26. Does	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were press sample(s) correctly preserved? the filteration required and/or requested for dissolved met ase Sample Matrix is the sample have more than one phase, i.e., multiphase ⁴	nation: erved? als? ?	NA NA Yes Yes Yes No No NA No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were Sample 21. Does 22. Are s 24. Is lab Multiph 26. Does	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation 5 the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix	nation: erved? als? ?	NA NA Yes Yes Yes No No NA No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were 20. Were 21. Does 22. Are s 24. Is lat Multiph 26. Does 27. If yes	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were press sample(s) correctly preserved? the filteration required and/or requested for dissolved met ase Sample Matrix is the sample have more than one phase, i.e., multiphase ⁴	nation: erved? als? ?	NA NA Yes Yes Yes No No NA No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were 20. Were 21. Does 22. Are s 24. Is lat Multiph 26. Does 27. If yes Subcont 28. Are s	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation 6 the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix s the sample have more than one phase, i.e., multiphase' s, does the COC specify which phase(s) is to be analyzed	nation: erved? als? 2 ed?	NA NA Yes Yes Yes No No NA No			

C

Date

envirotech Inc.

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

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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Federa

Federal G Gas Com #001

Work Order: E303147

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303147 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Released to Imaging: 8/17/2023 9:01:57 AM

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Received by OCD: 7/26/2023 9:27:22 AM			Page 335 of 52
	Sample Sum	mary	
WPX Energy - Carlsbad	Project Name:	Federal G Gas Com #001	Ponovtadi.
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/03/23 15:57

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container	
SW19 2-12'	E303147-01A Soil	03/29/23	03/31/23	Glass Jar, 4 oz.	
SW20 2-12'	E303147-02A Soil	03/29/23	03/31/23	Glass Jar, 4 oz.	



	24	imple D					
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number		eral G Gas (58-0007	Com #00)1		Reported:
Carlsbad NM, 88220	Project Manage	er: Gilb	ert Moreno	4/3/2023 3:57:35PM			
	S	W19 2-12'					
	I	E303147-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2313072
Benzene	ND	0.0250	1	l	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	l	03/30/23	03/31/23	
Toluene	ND	0.0250	1	l	03/30/23	03/31/23	
p-Xylene	ND	0.0250	1	l	03/30/23	03/31/23	
o,m-Xylene	ND	0.0500	1	l	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	l	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		101 %	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	l	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		101 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2313069
Diesel Range Organics (C10-C28)	ND	25.0	1	l	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	l	03/30/23	03/31/23	
Surrogate: n-Nonane		107 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313076
Chloride	121	20.0	1	l	03/30/23	03/31/23	



		imple D					
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas	Com #00	1		
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno	4/3/2023 3:57:35PM			
	5	SW20 2-12'					
	-	E303147-02					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: S	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	1	03/30/23	03/31/23	
-Xylene	ND	0.0250	1	1	03/30/23	03/31/23	
,m-Xylene	ND	0.0500	1	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/30/23	03/31/23	
urrogate: Toluene-d8		99.3 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	SL		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/30/23	03/31/23	
'urrogate: Bromofluorobenzene		99.4 %	70-130		03/30/23	03/31/23	
urrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/30/23	03/31/23	
urrogate: Toluene-d8		99.3 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313069
Diesel Range Organics (C10-C28)	ND	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	1	03/30/23	03/31/23	
urrogate: n-Nonane		110 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	BA		Batch: 2313076
Chloride	136	20.0	:	1	03/30/23	03/31/23	



QC Summary Data

		QC D			•				
WPX Energy - Carlsbad		Project Name:	Fe	deral G Gas C	om #001				Reported:
5315 Buena Vista Dr		Project Number:	01	058-0007					•
Carlsbad NM, 88220		Project Manager:	Gi	lbert Moreno					4/3/2023 3:57:35PM
	V	olatile Organic	c Compo	unds by EP	A 8260B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313072-BLK1)]	Prepared: 0.	3/30/23 Ar	nalyzed: 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: 0.	3/30/23 Ar	nalyzed: 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: 0.	3/30/23 Ar	nalyzed: 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: Bromojtuoroben2ene									
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			



QC Summary Data

		QC D	umm	lary Data	a a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:57:35PM
	Noi	nhalogenated C	Organic	s by EPA 801	15D - GI	RO			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
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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

		QU N	amm	ary Date					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas 0 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					4/3/2023 3:57:35PM
	Nonha	alogenated Org	anics by	y EPA 8015E) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313069-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			
LCS (2313069-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			
Matrix Spike (2313069-MS1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	475	25.0	250	235	95.8	38-132			
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			
Matrix Spike Dup (2313069-MSD1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	492	25.0	250	235	103	38-132	3.55	20	
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			



QC Summary Data

			•	J					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas (01058-0007 Gilbert Moreno					Reported: 4/3/2023 3:57:35PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313076-BLK1)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	ND	20.0							
LCS (2313076-BS1)							Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2313076-MS1)				Source:	E303141-0	01	Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	371	20.0	250	124	99.0	80-120			
Matrix Spike Dup (2313076-MSD1)				Source:	E303141-0	01	Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	384	20.0	250	124	104	80-120	3.22	20	

QC Summary Report Comment:

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



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 15:57

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.



Project In	formation	n				Cha	ain of Custod	Y												Page	\of
Client: W	PX Permi	an Energ	V LIC	1		Bill To		1	-	12	hlls	e On	lv.					TA	T	FPA P	rogram
	Federal G				Atte	ntion: Jim Raley		Lab Use Only Lab WO# Job N			her	-	1D	2D	3D	Standard	CWA	SDWA			
	Anager:					ress: 5315 Buena Vista Dr.		F2	200	34	7	GI	K	sa	nt	-Y		50	5 Day TAT	Curr	55.111
	3122 Nat					State, Zip: Carlsbad, NM, 882	20	-	A	DE		Analy	sis ar	d Me	thod				1		RCRA
			IM, 88220			ne: 575-885-7502		-	T	þ	-	1	1		1	1.1					
	32-541-77		,			il: jim.raley@dvn.com		-		RO									1.1	State	
	evon-team		um.com			Center: 1061164701		-		0/0				0.		128			NMI CO	UTAZ	TX
	by: Yocc					dent ID: nAB1428733041		Ŧ Ŧ	4	DR	802	3260	010	300		MN	X				
Time	Date	1000	No. of				Lab	th(f		GRO	by	by 8	als 6	ride	(ы	Q				
Sampled	Sampled	Matrix	Containers		5	Sample ID	Numbe	Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			Remark	5
11:20	3.29.23	S	1			SW19	1	2-1	2'							Х					
11:30	3.29.23	S	1			SW20	2	2-1	2'							х					
										-	_										
								-	_	-					_						
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Addition	al Instruc	tions:																			
	240 Sama 1		and authentic	ity of this sample.	l am aware t	hat tampering with or intentionally misla	abelling the sampl	e locatio	on,										eived on ice the day		led or receiv
	of collection ed by: (Signa		Date	ay be grounds for le Time 30/23 09		Sampled by: Gilbert Mc Received by: (Signature) Miguella Cunzals		23	Tim	egai)	-	-			1.	b H	o On		uys.	
elinquishe	ed by: (Signa	iture)	Date	Time	30	Received by: (Signature)	Date 3-3		Tim			T1	ervec	I OII I	.c.	T2	<i>y</i> 14		T3		
elinquishe	ed by: (Signa	iture)	Date	30.23 23	-	Received by: (Signature)	A 33	1.2.	Tim		5		i Ten	np °C_	L	F		1			
ample Matr	ix: S - Soit, Sd	- Solid, Sg -		ueous, O - Other		07.0	Contain														
						er arrangements are made. Hazardo h this COC. The liability of the labora								at the o	lient e	exper	nse. T	The rep	port for the anal	ysis of the	above
	4.1	1	Prag 1 G							Core is	-	3		-	-		-	•			-
											E	2		e			V		rot	e	C

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad	Date Received:	03/31/23 05	:45	Work Order ID: E3	03147
Phone:	(539) 573-4018	Date Logged In:	03/30/23 14	:29	Logged In By: Al	exa Michaels
Email:	devon-team@ensolum.com	Due Date:	03/31/23 17	:00 (0 day TAT)		
Chain o	of Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location mat	ch the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	ourier	
4. Was t	he COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		Yes	_	<u>Comments/Re</u>	esolution_
Sample	<u>Turn Around Time (TAT)</u>					
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT	to 24hr rush
<u>Sample</u>	<u>Cooler</u>					
7. Was a	a sample cooler received?		Yes			
8. If yes	s, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes			
13. If nc	o visible ice, record the temperature. Actual sample	temperature: 4°	Ċ			
	Container	1				
-	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	2	Yes			
19. Is the	e appropriate volume/weight or number of sample contain	ers collected?	Yes			
Field La	abel					
20. Wer	e field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		No			
	<u>Preservation</u>	vacamiad?	No			
	s the COC or field labels indicate the samples were pr	C3C1 VCU !	No NA			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved m	etals?	NA No			
	• •	ivalio;	TAO			
	hase Sample Matrix	222	NT			
	s the sample have more than one phase, i.e., multiphase and accepted the COC specify which phase(a) is to be apply		No			
7.7. IT VE	es, does the COC specify which phase(s) is to be analy	zed?	NA			
•	treat Laboratory					
Subcon	tract Laboratory	_				
Subcon 28. Are	samples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if		No NA S	Subcontract Lab		

C

Date

envirotech Inc.

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

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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fede

Federal G Gas Com #001

Work Order: E303148

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303148 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 reguarding 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

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Sample Summary

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		Sample Sum	mai y		
WPX Energy - Carlsbad		Project Name:	Federal G Gas Con	n #001	Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		04/03/23 15:55
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW08 4-15'	E303148-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
SW09 4-15'	E303148-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
SW10 4-15'	E303148-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
SW11 4-15'	E303148-04A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



	S	ample D	ata				
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name Project Numb		eral G Gas (58-0007	Com #00	1		Reported:
Carlsbad NM, 88220	Project Mana		ert Moreno	, ,			4/3/2023 3:55:50PM
Carisbau Nivi, 88220	Tiojeet Mana	gei. Gilo	ent moreno	,			10/2020 0.00101
		SW08 4-15'					
		E303148-01					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	/kg mg/kg Analyst: SL					Batch: 2313072
Benzene	ND	0.0250	1	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	1	03/30/23	03/31/23	
p-Xylene	ND	0.0250	1	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		93.5 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		103 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	SL		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		93.5 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		103 %	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)	ND	25.0	1	1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	1	03/30/23	03/31/23	
Surrogate: n-Nonane		108 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	BA		Batch: 2313077
Chloride	134	20.0	1	1	03/30/23	03/31/23	



		imple D					
WPX Energy - Carlsbad	Project Name:		eral G Gas	Com #00	1		
5315 Buena Vista Dr	Project Number		58-0007		Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno)			4/3/2023 3:55:50PM
	S	SW09 4-15'					
		E303148-02					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: S	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	
,m-Xylene	ND	0.0500		1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250		1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		93.0 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		104 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	SL		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		93.0 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/30/23	03/31/23	
urrogate: Toluene-d8		104 %	70-130		03/30/23	03/31/23	
onhalogenated Organics by EPA 8015D - DRO/ORO mg/kg mg/kg Analyst: JL							Batch: 2313069
Diesel Range Organics (C10-C28)	34.2	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		112 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	BA		Batch: 2313077
Chloride	ND	20.0		1	03/30/23	03/31/23	



		ampie D					
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas	Com #00)1		
5315 Buena Vista Dr	Project Numb	er: 0103	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Morenc	4/3/2023 3:55:50PM			
		SW10 4-15'					
		E303148-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	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	
p-Xylene	ND	0.0250		1	03/30/23	03/31/23	
o,m-Xylene	ND	0.0500		1	03/30/23	03/31/23	
Fotal Xylenes	ND	0.0250		1	03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		94.0 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		104 %	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	
Surrogate: Bromofluorobenzene		94.0 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		104 %	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)	47.5	25.0		1	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0		1	03/30/23	03/31/23	
Surrogate: n-Nonane		110 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313077
Chloride	ND	20.0		1	03/30/23	03/31/23	



		ampic D					
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas C	Com #001	1		
5315 Buena Vista Dr	Project Number	er: 0105	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno				4/3/2023 3:55:50PM
	:	SW11 4-15'					
		E303148-04					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: S	L		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	
p-Xylene	ND	0.0250	1		03/30/23	03/31/23	
o,m-Xylene	ND	0.0500	1		03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1		03/30/23	03/31/23	
Surrogate: Bromofluorobenzene		93.2 %	70-130		03/30/23	03/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		03/30/23	03/31/23	
Surrogate: Toluene-d8		105 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	L		Batch: 2313072
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/30/23	03/31/23	
urrogate: Bromofluorobenzene		93.2 %	70-130		03/30/23	03/31/23	
urrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		03/30/23	03/31/23	
urrogate: Toluene-d8		105 %	70-130		03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313069
Diesel Range Organics (C10-C28)	ND	25.0	1	L	03/30/23	03/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1		03/30/23	03/31/23	
urrogate: n-Nonane		109 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: B	A		Batch: 2313077
Chloride	ND	20.0	1		03/30/23	03/31/23	



QC Summary Data

WPX Energy - Carlsbad		Project Name:	F	ederal G Gas C	Com #001				Demented
5315 Buena Vista Dr		Project Number:		1058-0007					Reported:
Carlsbad NM, 88220		Project Manager		Gilbert Moreno					4/3/2023 3:55:50PM
	V	olatile Organi	c Compo	ounds by EI	PA 8260B	;			Analyst: SL
			-	-					Analyst. 5L
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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			
Foluene	2.16	0.0250	2.50		86.5	70-130			
o-Xylene	2.23	0.0250	2.50		89.2	70-130			
o,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: 0	3/30/23 A	nalyzed: 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	
p-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			
	0.517		0.500						



QC Summary Data

		QC D	umm	ary Date	u.				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:55:50PM
	No	nhalogenated (s by EPA 801	15D - GI	RO			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
Blank (2313072-BLK1)							Prepared: 0	3/30/23 A1	nalyzed: 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: 0	3/30/23 Ai	nalyzed: 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: 0	3/30/23 A1	nalyzed: 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

		QU N	411111	ary Date	-				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Federal G Gas 0 01058-0007	Com #001				Reported:
Carlsbad NM, 88220		Project Manager:	(Gilbert Moreno					4/3/2023 3:55:50PM
	Nonha	alogenated Org	anics by	y EPA 8015E) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313069-BLK1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			
LCS (2313069-BS1)							Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			
Matrix Spike (2313069-MS1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	475	25.0	250	235	95.8	38-132			
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			
Matrix Spike Dup (2313069-MSD1)				Source:	E303143-	01	Prepared: 0	3/30/23 A	analyzed: 03/31/23
Diesel Range Organics (C10-C28)	492	25.0	250	235	103	38-132	3.55	20	
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			



QC Summary Data

				•						
WPX Energy - Carlsbad		Project Name:		Federal G Gas (Com #001				Repo	rted:
5315 Buena Vista Dr		Project Number:		01058-0007						
Carlsbad NM, 88220		Project Manager:	:	Gilbert Moreno					4/3/2023	3:55:50PM
		Anions	by EPA	300.0/9056	۱.				Analyst:	BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	N	lotes
Blank (2313077-BLK1)							Prepared: 0	3/30/23	Analyzed: 03	3/31/23
Chloride	ND	20.0								
LCS (2313077-BS1)							Prepared: 0	3/30/23	Analyzed: 03	3/31/23
Chloride	248	20.0	250		99.0	90-110				
Matrix Spike (2313077-MS1)				Source:	E303148-0)1	Prepared: 0	3/30/23	Analyzed: 03	3/31/23
Chloride	388	20.0	250	134	101	80-120				
Matrix Spike Dup (2313077-MSD1)				Source:	E303148-0	1	Prepared: 0	3/30/23	Analyzed: 03	3/31/23
Chloride	390	20.0	250	134	102	80-120	0.585	20		

QC Summary Report Comment:

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



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 15:55

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.



nent. v	/PX Permi	an Energy	/, LLC				Bill To				La	b Us	e Onl	У				T/	AT		EPA P	rogram
roject:	Federal G	Gas Com	n #001		Att	ention: Jim Rale	y		Lab	NO#	1	_	Job	Num	ber	1D	2D	3D	Star	ndard	CWA	SDWA
roject I	Manager:	Gilbert M	oreno		Ad	dress: 5315 Bue	na Vista Dr.		E3	32	14	8	ON	58.	600	HX			5 De	TAT Y		
ddress	: 3122 Nat	ional Parl	ks HWY		Cit	y, State, Zip: Car	Isbad, NM, 88220)				1			d Meth							RCRA
ity, Sta	te, Zip: Ca	rlsbad, N	M, 88220		Ph	one: 575-885-75	02				by											
hone: 8	32-541-7	719			Em	ail: jim.raley@d	vn.com				ORO									1	State	
mail: d	evon-team	@ensolu	im.com				51164701				30/0	н	0	-	0.0	5	1.		N	MM CO	UT AZ	TX
ollecte	d by: Yocc	ly Edyte	Konan		Inc	ident ID: nA	B1428733041		Ē		Id/o	802	826	5010	e 30(WN	X					
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	BGDOC				Remarks	
9:30	3.29.23	S	1			SW08	_	1	4-15							X						
9:40	3.29.23	S	1	l		SW09	_	2	4-15							X						
9:50	3.29.23	S	1			SW10		3	4-15	1						X						
10:00	3.29.23	S	1			SW11		4	4-15	1						X						μ.,
																-						
									-		-			_		+		-				
ddition	al Instruc	tions:						<u>i</u>						_								
			and authentio	city of this sample	. I am aware	that tampering with	or intentionally mislabel	ling the sample	location	l,		-									hey are sampl	ed or receiv
te or time	of collection	is considered	d fraud and m	ay be grounds for	legal action		pled by: Gilbert Moren						packed	in ice a	it an avg t	emp abov	e O but l	ess than	6 °C on su	bsequent day	/5.	
	ed by: (Signa			30123 09	5:00		Clegacelle		23		90	0	Rece	eived	on ice		AN	lse Or I	nly			
Mich	ed by: (Signa d by: (Signa d by: (Signa	walls	Date 3 Date	30,23 Time Time	730	Received by: (Sign	A The	Date 3-30 Date	23	Time [736		<u>T1</u>	_		- <u>T2</u>			_ 1	3		
Lu	renz	" Les	3-3	30.23 2	315	aufu	NA	Containe	23	E	5:4	U	AVG			4		VOA				-
				ults are reporte	d unless ot	her arrangements a	re made Hazardous								-				port for	the analy	sis of the a	bove
							bility of the laborator									and any						3215

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad	Date Received:	03/31/23 05	:45	Work Order ID: E303148
hone:	(539) 573-4018	Date Logged In:	03/30/23 14	:33	Logged In By: Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	03/31/23 17	:00 (0 day TAT)	
Chain o	f Custody (COC)				
1. Does	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location mat	ch the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	ourier
4. Was tl	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssio		Yes		Comments/Resolution
Sample	<u>Turn Around Time (TAT)</u>				
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Client has changed the TAT to 24hr rus
<u>Sample</u>	<u>Cooler</u>				
7. Was a	sample cooler received?		Yes		
8. If yes,	was cooler received in good condition?		Yes		
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes		
10. Were	custody/security seals present?		No		
11. If ye	s, were custody/security seals intact?		NA		
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°	Ċ		
	Container	1			
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	e head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers	?	Yes		
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes		
Field La	bel				
20. Were	e field sample labels filled out with the minimum info	rmation:			
	Sample ID?		Yes		
	Date/Time Collected? Collectors name?		Yes	-	
	Preservation		No		
	the COC or field labels indicate the samples were pr	eserved?	No		
	sample(s) correctly preserved?		NA		
	o filteration required and/or requested for dissolved n	netals?	No		
	ase Sample Matrix				
	the sample have more than one phase, i.e., multipha	se?	No		
	s, does the COC specify which phase(s) is to be analy		NA		
•	ract Laboratory		1 12 1		
Subcort	LACT MADULATOLY				
	samples required to get sent to a subcontract laborato	rv?	No		

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Fed

Federal G Gas Com #001

Work Order: E303150

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/23

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: E303150 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 reguarding 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.

Raina Schwanz

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

		Sampic Sum	mai y		
WPX Energy - Carlsbad		Project Name:	Federal G Gas Cor	n #001	Dan anta da
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		04/03/23 15:50
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS18 2'	E303150-01A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS19 2'	E303150-02A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.
FS20 2'	E303150-03A	Soil	03/29/23	03/31/23	Glass Jar, 4 oz.



		imple D						
WPX Energy - Carlsbad	Project Name:	Fede	eral G Gas (Com #00)1			
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007				Reported:	
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno				4/3/2023 3:50:36PM	
		FS18 2'						
		E303150-01						
		Reporting						
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313073	
Benzene	ND	0.0250	1	l	03/30/23	03/31/23		
Ethylbenzene	ND	0.0250	1	l	03/30/23	03/31/23		
Toluene	ND	0.0250	1	l	03/30/23	03/31/23		
o-Xylene	ND	0.0250	1	l	03/30/23	03/31/23		
o,m-Xylene	ND	0.0500	1	l	03/30/23	03/31/23		
Total Xylenes	ND	0.0250	1	l	03/30/23	03/31/23		
Surrogate: Bromofluorobenzene		89.2 %	70-130		03/30/23	03/31/23		
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		03/30/23	03/31/23		
Surrogate: Toluene-d8		98.6 %	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	l	03/30/23	03/31/23		
Surrogate: Bromofluorobenzene		89.2 %	70-130		03/30/23	03/31/23		
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		03/30/23	03/31/23		
Surrogate: Toluene-d8		98.6 %	70-130		03/30/23	03/31/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2313070	
Diesel Range Organics (C10-C28)	493	25.0	1	l	03/30/23	03/31/23		
Dil Range Organics (C28-C36)	258	50.0	1	l	03/30/23	03/31/23		
Surrogate: n-Nonane		109 %	50-200		03/30/23	03/31/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313077	
Chloride	58.9	20.0	1	l	03/30/23	03/31/23		



	D	ample D							
WPX Energy - Carlsbad	Project Name: Federal G Gas			Com #0	01				
5315 Buena Vista Dr	Project Numb	oer: 010	58-0007				Reported:		
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Morenc)			4/3/2023 3:50:36PM		
		FS19 2'							
		E303150-02							
		Reporting							
Analyte	Result	Limit	Dil	ution	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			
p-Xylene	ND	0.0250		1	03/30/23	03/31/23			
o,m-Xylene	ND	0.0500		1	03/30/23	03/31/23			
Total Xylenes	ND	0.0250		1	03/30/23	03/31/23			
Surrogate: Bromofluorobenzene		89.1 %	70-130		03/30/23	03/31/23			
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/30/23	03/31/23			
Surrogate: Toluene-d8		97.8 %	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			
Surrogate: Bromofluorobenzene		89.1 %	70-130		03/30/23	03/31/23			
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/30/23	03/31/23			
Surrogate: Toluene-d8		97.8 %	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)	514	25.0		1	03/30/23	03/31/23			
Dil Range Organics (C28-C36)	293	50.0		1	03/30/23	03/31/23			
Surrogate: n-Nonane		101 %	50-200		03/30/23	03/31/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313077		
Chloride	51.5	20.0		1	03/30/23	03/31/23			



		ample D							
WPX Energy - Carlsbad	Project Name:	: Fede	eral G Gas	Com #0	01				
5315 Buena Vista Dr	Project Numb	er: 0103	58-0007				Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moren	0			4/3/2023 3:50:36PM		
		FS20 2'							
		E303150-03							
		Reporting							
Analyte	Result	Limit	Dil	ution	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			
p-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			
Surrogate: Bromofluorobenzene		91.5 %	70-130		03/30/23	03/31/23			
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		03/30/23	03/31/23			
Surrogate: Toluene-d8		99.0 %	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			
Surrogate: Bromofluorobenzene		91.5 %	70-130		03/30/23	03/31/23			
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		03/30/23	03/31/23			
Surrogate: Toluene-d8		99.0 %	70-130		03/30/23	03/31/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2313070		
Diesel Range Organics (C10-C28)	430	25.0		1	03/30/23	03/31/23			
Dil Range Organics (C28-C36)	275	50.0		1	03/30/23	03/31/23			
Surrogate: n-Nonane		102 %	50-200		03/30/23	03/31/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2313077		
Chloride	38.8	20.0		1	03/30/23	03/31/23			



QC Summary Data

		V C D	u111114	ing Data	•				
WPX Energy - Carlsbad		Project Name:		ederal G Gas C	om #001				Reported:
5315 Buena Vista Dr		Project Number:	01	058-0007					
Carlsbad NM, 88220		Project Manager:	Gi	ilbert Moreno					4/3/2023 3:50:36PM
	V	olatile Organio	e Compo	unds by EP.	A 8260B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313073-BLK1)							Prepared: 0.	3/30/23 A	nalyzed: 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	3/30/23 A	nalyzed: 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			
p-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: 0.	3/30/23 A	nalyzed: 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	
Foluene	2.57	0.0250	2.50		103	70-130	1.16	24	
p-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	
	0.542		0.500		108	70-130			
Surrogate: Bromofluorobenzene	0.542								
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.553		0.500		111	70-130			



QC Summary Data

		QC D	uIIIII		a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:50:36PM
	No	nhalogenated C	Organic	s by EPA 801	15D - G	RO			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
Blank (2313073-BLK1)							Prepared: 0	3/30/23 A	nalyzed: 03/31/23
Gasoline Range Organics (C6-C10)	ND	20.0					1 .		,
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: 0	3/30/23 A	nalyzed: 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: 0	3/30/23 A	nalyzed: 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

		QC DI		ary Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Gilbert Moreno	om #001				Reported: 4/3/2023 3:50:36PM
	Nonha	alogenated Orga	anics b	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313070-BLK1)							Prepared: 0	3/30/23 A	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: 0	3/30/23 A	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: I	E303150-	03	Prepared: 0	3/30/23 A	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: I	E303150-	03	Prepared: 0	3/30/23 A	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

		$\chi \cup \lambda$							
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager		Federal G Gas C 01058-0007 Gilbert Moreno	Com #001				Reported: 4/3/2023 3:50:36PM
		Anions	by EPA	300.0/9056A	1				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
Blank (2313077-BLK1)	ND						Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride LCS (2313077-BS1)	ND	20.0					Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	248	20.0	250		99.0	90-110			
Matrix Spike (2313077-MS1)				Source:	E303148-0)1	Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	388	20.0	250	134	101	80-120			
Matrix Spike Dup (2313077-MSD1)				Source:	E303148-()1	Prepared: 0	3/30/23	Analyzed: 03/31/23
Chloride	390	20.0	250	134	102	80-120	0.585	20	

QC Summary Report Comment:

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



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 15:50

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.



	SDV
Address: 5315 Buena Vista Dr. E303150 01058-0051X - 5 Day TAT	
	RCF
Phone: 575-885-7502	
Email: jim.raley@dvn.com	TV
Cost Center: 1061164701 Image: Cost Center: NM CO UT AZ T Incident ID: nAP14287232041 Image: Cost Center: nAP14287232041 Image: Cost Center: NM CO UT AZ T	1
Incident ID: nAB1428733041 IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	-
Sample ID Number Add H 100 B	
FS18 2' X	
FS19 2 2' X	
FS20 3 2' X	
	-
ole. Lam aware that tampering with or intentionally mislabelling the sample location. Samples requiring thermal preservation must be received on ice the day they are sampled or	d or rec
for legal action. Sampled by: Gilbert Moreno packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	
me Received by: (Signature) Date Time Lab Use Only	
T30 Received by: (Signature) Date 3-30-23 (730 T1 T2 T3	
23/5 Received by: (Sighatore) Date 3:31:23 Time 5:45 AVG Temp °C 4	
er Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	
for legal action. Sampled by: Gilbert Moreno packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. me Received by: (Signature) Date Time Me Received by: (Signature) Date Time Main Received by: (Signature) Date Time Me Received by: (Signature) Date Time Me Received by: (Signature) Date Time Me Received by: (Signature) Date Time	nplec

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

-	um.com	Date Logged In: Due Date:	03/30/23 14				
hain of Custody (COC) Does the sample ID matc Does the number of samp	um.com			:40		Logged In By:	Alexa Michaels
Does the sample ID matc Does the number of samp			03/31/23 17	7:00 (0 day TAT)			
Does the number of samp							
-	h the COC?		Yes				
	les per sampling site location r	natch the COC	Yes				
. Were samples dropped of	f by client or carrier?		Yes	Carrier: C	Courier		
Was the COC complete, i	.e., signatures, dates/times, req	uested analyses?	Yes				
	l within holding time? h as pH which should be conducte time, are not included in this disuc		Yes			<u>Commen</u>	ts/Resolution
ample Turn Around Time	<u>e (TAT)</u>				~~~		
Did the COC indicate sta	ndard TAT, or Expedited TAT?		Yes		Client has	changed the	TAT to 24hr rush
ample Cooler_							
Was a sample cooler rece			Yes				
If yes, was cooler receive	d in good condition?		Yes				
Was the sample(s) receive	ed intact, i.e., not broken?		Yes				
0. Were custody/security security secur	eals present?		No				
1. If yes, were custody/sec	rity seals intact?		NA				
Note: Thermal pres	ice? If yes, the recorded temp is 4 ervation is not required, if samples		Yes				
minutes of samplin 3. If no visible ice, record	^g he temperature. Actual sam	ale temperature: 4º	'n				
ample Container	ne temperature. Tretaar samj		<u> </u>				
4. Are aqueous VOC samp	les present?		No				
5. Are VOC samples college	•		NA				
-	an 6-8 mm (pea sized or less)?		NA				
7. Was a trip blank (TB) in	-		NA				
	ollected in the correct contained	ers?	Yes				
-	weight or number of sample con		Yes				
ield Label							
0. Were field sample labels	filled out with the minimum in	nformation:					
Sample ID?			Yes				
Date/Time Collected Collectors name?	1?		Yes				
			No				
ample Preservation 1 Does the COC or field 1	bels indicate the samples were	nreserved?	No				
2. Are sample(s) correctly		preserved:	NA				
	l and/or requested for dissolved	1 metals?	No				
Iultiphase Sample Matrix	-		1.0				
	└ ore than one phase, i.e., multip	hase?	No				
	cify which phase(s) is to be an		NA				
ubcontract Laboratory							
	get sent to a subcontract labora	atory?	No				
	atory specified by the client and			Subcontract Lab	• NA		

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



•





5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: F

Federal G Gas Com 1

Work Order: E305092

Job Number: 01058-0007

Received: 5/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/19/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: Federal G Gas Com 1 Workorder: E305092 Date Received: 5/16/2023 8:30:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2023 8:30:00AM, under the Project Name: Federal G Gas Com 1.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 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 reguarding 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

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

		Sample Sum	mai y		
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	Federal G Gas Com 01058-0007 Ashley Giovengo	1	Reported: 05/19/23 09:50
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 - 0-5.5'	E305092-01A	Soil	05/12/23	05/16/23	Glass Jar, 2 oz.
SW02 - 0-5.5'	E305092-02A	Soil	05/12/23	05/16/23	Glass Jar, 2 oz.
SW07 - 0-4'	E305092-03A	Soil	05/12/23	05/16/23	Glass Jar, 2 oz.
SW21 - 4-12'	E305092-04A	Soil	05/12/23	05/16/23	Glass Jar, 2 oz.
SW23 - 4-12'	E305092-05A	Soil	05/12/23	05/16/23	Glass Jar, 2 oz.
SW18 - 0-6'	E305092-06A	Soil	05/12/23	05/16/23	Glass Jar, 2 oz.



	Sa	ample D	ata								
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 0105	eral G Gas G 58-0007 ley Gioveng			Reported: 5/19/2023 9:50:46AM					
Cansoad NM, 88220	, .		ley Gloveng	30		5/17/2025 9.50.40AM					
		W01 - 0-5.5' E305092-01									
Reporting											
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes					
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: SL		Batch: 2320030					
Benzene	ND	0.0250	1	05/16/23	05/16/23						
Ethylbenzene	ND	0.0250	1	05/16/23	05/16/23						
Toluene	ND	0.0250	1	05/16/23	05/16/23						
p-Xylene	ND	0.0250	1	05/16/23	05/16/23						
p,m-Xylene	ND	0.0500 1		05/16/23	05/16/23						
Total Xylenes	ND	0.0250	0250 1		05/16/23						
Surrogate: Bromofluorobenzene		101 %	70-130	05/16/23	05/16/23						
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/16/23	05/16/23						
Surrogate: Toluene-d8		98.5 %	70-130	05/16/23	05/16/23						
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2320030					
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/23	05/16/23						
Surrogate: Bromofluorobenzene		101 %	70-130	05/16/23	05/16/23						
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/16/23	05/16/23						
Surrogate: Toluene-d8		98.5 %	70-130	05/16/23	05/16/23						
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2320061					
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23						
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23						
Surrogate: n-Nonane		84.9 %	50-200	05/17/23	05/18/23						
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2320037					
Chloride	ND	20.0	1	05/16/23	05/17/23						



	5	ample D	ala				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Manag	er: 0105	eral G Gas C 58-0007 ley Gioveng				Reported: 5/19/2023 9:50:46AM
	S	W02 - 0-5.5'					
		E305092-02					
		Reporting					
Analyte	Result	Limit	Dilu	tion Prej	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: SL			Batch: 2320030
Benzene	ND	0.0250	1	05/	6/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/	6/23	05/16/23	
oluene	ND	0.0250	1	05/2	6/23	05/16/23	
-Xylene	ND	0.0250	1	05/	6/23	05/16/23	
,m-Xylene	ND	0.0500	1	05/	6/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/2	6/23	05/16/23	
Surrogate: Bromofluorobenzene		103 %	70-130	05/2	16/23	05/16/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	05/	6/23	05/16/23	
urrogate: Toluene-d8		98.8 %	70-130	05/.	6/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL			Batch: 2320030
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/2	6/23	05/16/23	
Surrogate: Bromofluorobenzene		103 %	70-130	05/.	16/23	05/16/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	05/.	6/23	05/16/23	
urrogate: Toluene-d8		98.8 %	70-130	05/.	6/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/	7/23	05/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/	7/23	05/18/23	
Surrogate: n-Nonane		87.0 %	50-200	05/	17/23	05/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS			Batch: 2320037
Chloride	219	20.0	1	05/	6/23	05/17/23	



	D.	ample D	ala				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	eral G Gas 58-0007 ley Giovena				Reported: 5/19/2023 9:50:46AM
	!	SW07 - 0-4'					
		E305092-03					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2320030
Benzene	ND	0.0250	1	1	05/16/23	05/16/23	
Ethylbenzene	ND	0.0250		1	05/16/23	05/16/23	
Toluene	ND	0.0250		1	05/16/23	05/16/23	
o-Xylene	ND	0.0250		1	05/16/23	05/16/23	
o,m-Xylene	ND	0.0500		1	05/16/23	05/16/23	
Total Xylenes	ND	0.0250		1	05/16/23	05/16/23	
Surrogate: Bromofluorobenzene		101 %	70-130		05/16/23	05/16/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		05/16/23	05/16/23	
Surrogate: Toluene-d8		98.4 %	70-130		05/16/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2320030
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/16/23	05/16/23	
Surrogate: Bromofluorobenzene		101 %	70-130		05/16/23	05/16/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		05/16/23	05/16/23	
Surrogate: Toluene-d8		98.4 %	70-130		05/16/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	:	1	05/17/23	05/18/23	
Dil Range Organics (C28-C36)	ND	50.0		1	05/17/23	05/18/23	
Surrogate: n-Nonane		87.3 %	50-200		05/17/23	05/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2320037
Chloride	130	20.0	:	1	05/16/23	05/17/23	



	5	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0105	eral G Gas C 58-0007 ley Gioveng			Reported: 5/19/2023 9:50:46AM
	5	5W21 - 4-12'				
		E305092-04				
		Reporting				
Analyte	Result	Limit	Dilut	tion Prepare	d Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: SL		Batch: 2320030
Benzene	ND	0.0250	1	05/16/2	3 05/16/23	
Ethylbenzene	ND	0.0250	1	05/16/2	3 05/16/23	
°oluene	ND	0.0250	1	05/16/2	3 05/16/23	
o-Xylene	ND	0.0250	1	05/16/2	3 05/16/23	
,m-Xylene	ND	0.0500	1	05/16/2	3 05/16/23	
Fotal Xylenes	ND	0.0250	1	05/16/2	3 05/16/23	
Surrogate: Bromofluorobenzene		101 %	70-130	05/16/2	3 05/16/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	05/16/2	3 05/16/23	
Surrogate: Toluene-d8		98.3 %	70-130	05/16/2	3 05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: SL		Batch: 2320030
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/2	3 05/16/23	
Surrogate: Bromofluorobenzene		101 %	70-130	05/16/2	3 05/16/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	05/16/2	3 05/16/23	
Surrogate: Toluene-d8		98.3 %	70-130	05/16/2	3 05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/2	3 05/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/2	3 05/18/23	
Surrogate: n-Nonane		83.7 %	50-200	05/17/2	3 05/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS		Batch: 2320037
Chloride	125	20.0	1	05/16/2	3 05/17/23	



	50	ample D	ala				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 0103	eral G Gas C 58-0007 ley Gioveng				Reported: 5/19/2023 9:50:46AM
	S	W23 - 4-12'					
		E305092-05					
		Reporting					
Analyte	Result	Limit	Dilu	tion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: SL			Batch: 2320030
Benzene	ND	0.0250	1	0.	5/16/23	05/17/23	
Ethylbenzene	ND	0.0250	1	0:	5/16/23	05/17/23	
Toluene	ND	0.0250	1	0.	5/16/23	05/17/23	
p-Xylene	ND	0.0250	1	0.	5/16/23	05/17/23	
o,m-Xylene	ND	0.0500	1	0:	5/16/23	05/17/23	
Total Xylenes	ND	0.0250	1	0:	5/16/23	05/17/23	
Surrogate: Bromofluorobenzene		103 %	70-130	0.	5/16/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	0.	5/16/23	05/17/23	
Surrogate: Toluene-d8		99.6 %	70-130	0.	5/16/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: SL			Batch: 2320030
Gasoline Range Organics (C6-C10)	ND	20.0	1	0:	5/16/23	05/17/23	
Surrogate: Bromofluorobenzene		103 %	70-130	0.	5/16/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	0.	5/16/23	05/17/23	
Surrogate: Toluene-d8		99.6 %	70-130	0.	5/16/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	0:	5/17/23	05/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	0.	5/17/23	05/18/23	
Surrogate: n-Nonane		86.1 %	50-200	0.	5/17/23	05/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS			Batch: 2320037
Chloride	43.0	20.0	1	0.	5/16/23	05/17/23	



	5	ample D	ala				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	eral G Gas (58-0007 ley Giovens				Reported: 5/19/2023 9:50:46AM
	:	SW18 - 0-6'					
		E305092-06					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2320030
Benzene	ND	0.0250	1	1	05/16/23	05/17/23	
Ethylbenzene	ND	0.0250	1	1	05/16/23	05/17/23	
Toluene	ND	0.0250	:	1	05/16/23	05/17/23	
o-Xylene	ND	0.0250	:	1	05/16/23	05/17/23	
,m-Xylene	ND	0.0500	1	1	05/16/23	05/17/23	
Fotal Xylenes	ND	0.0250		1	05/16/23	05/17/23	
Surrogate: Bromofluorobenzene		103 %	70-130		05/16/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		05/16/23	05/17/23	
Surrogate: Toluene-d8		99.9 %	70-130		05/16/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2320030
Gasoline Range Organics (C6-C10)	ND	20.0	i	1	05/16/23	05/17/23	
Surrogate: Bromofluorobenzene		103 %	70-130		05/16/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		05/16/23	05/17/23	
Surrogate: Toluene-d8		99.9 %	70-130		05/16/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0		1	05/17/23	05/18/23	
Dil Range Organics (C28-C36)	ND	50.0		1	05/17/23	05/18/23	
Surrogate: n-Nonane		86.0 %	50-200		05/17/23	05/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2320037
Chloride	129	20.0	:	1	05/16/23	05/17/23	



QC Summary Data

		QC SI	imma	iry Data	a					
Ensolum, LLC		Project Name:	Fe	ederal G Gas C	Com 1				Reported:	
3122 National Parks Hwy		Project Number:	01	058-0007						
Carlsbad NM, 88220	Project Manager:		As	shley Gioveng	go			5/1	5/19/2023 9:50:46AM	
	V	olatile Organic	Compo	unds by EI	PA 8260E	3			Analyst: SL	
Analyte		Reporting	Spike	Source		Rec		RPD		
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2320030-BLK1)							Prepared: 0	5/16/23 Anal	yzed: 05/16/23	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
p-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.533		0.500		107	70-130				
Surrogate: Toluene-d8	0.501		0.500		100	70-130				
LCS (2320030-BS1)							Prepared: 0	5/16/23 Anal	yzed: 05/16/23	
Benzene	2.58	0.0250	2.50		103	70-130	1		,	
Ethylbenzene	2.53	0.0250	2.50		105	70-130				
Foluene	2.47	0.0250	2.50		98.7	70-130				
p-Xylene	2.39	0.0250	2.50		95.4	70-130				
o,m-Xylene	4.59	0.0500	5.00		91.8	70-130				
Fotal Xylenes	6.98	0.0250	7.50		93.0	70-130				
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130				
Surrogate: Toluene-d8	0.489		0.500		97.7	70-130				
Matrix Spike (2320030-MS1)				Source:	E305090-()1	Prepared: 0	5/16/23 Anal	yzed: 05/16/23	
Benzene	5.04	0.0500	5.00	ND	101	48-131				
Ethylbenzene	4.97	0.0500	5.00	ND	99.4	45-135				
Toluene	4.91	0.0500	5.00	ND	98.1	48-130				
o-Xylene	4.74	0.0500	5.00	ND	94.7	43-135				
o,m-Xylene	9.13	0.100	10.0	ND	91.3	43-135				
Total Xylenes	13.9	0.0500	15.0	ND	92.4	43-135				
Surrogate: Bromofluorobenzene	0.970		1.00		97.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	1.02		1.00		102	70-130				
Surrogate: Toluene-d8	1.00		1.00		100	70-130				
Matrix Spike Dup (2320030-MSD1)				Source:	E305090-()1	Prepared: 0	5/16/23 Anal	yzed: 05/16/23	
Benzene	5.43	0.0500	5.00	ND	108	48-131	7.40	23		
Ethylbenzene	5.32	0.0500	5.00	ND	106	45-135	6.79	27		
Toluene	5.28	0.0500	5.00	ND	105	48-130	7.25	24		
p-Xylene	5.18	0.0500	5.00	ND	104	43-135	8.99	27		
o,m-Xylene	10.0	0.100	10.0	ND	100	43-135	9.57	27		
/			15.0	ND	102	43-135	9.38	27		
Total Xylenes	15.2	0.0500	15.0							
		0.0500	1.00	112						
Total Xylenes Surrogate: Bromofluorobenzene Surrogate: 1.2-Dichloroethane-d4	0.958	0.0500	1.00		95.8	70-130				
		0.0500						`		



QC Summary Data

		VC DI		ary Data							
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	Federal G Gas ()1058-0007 Ashley Gioveng					Reported: 5/19/2023 9:50:46AM		
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: SL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2320030-BLK1)				Prepare				5/16/23 A	Analyzed: 05/16/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.533		0.500		107	70-130					
Surrogate: Toluene-d8	0.501		0.500		100	70-130					
LCS (2320030-BS2)							Prepared: 0	5/16/23 A	Analyzed: 05/16/23		
Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130					
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130					
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130					
Matrix Spike (2320030-MS2)				Source:	E305090-(01	Prepared: 0	5/16/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	114	40.0	100	ND	114	70-130					
Surrogate: Bromofluorobenzene	1.01		1.00		101	70-130					
Surrogate: 1,2-Dichloroethane-d4	1.02		1.00		102	70-130					
Surrogate: Toluene-d8	1.01		1.00		101	70-130					
Matrix Spike Dup (2320030-MSD2)				Source:	E305090-(01	Prepared: 0	5/16/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	127	40.0	100	ND	127	70-130	11.4	20			
Surrogate: Bromofluorobenzene	0.992		1.00		99.2	70-130					
Commenter 1.2 Distlance dama 14	1.06		1.00		106	70-130					
Surrogate: 1,2-Dichloroethane-d4	1.00				100	/0 150					



QC Summary Data

		QU D		ary Data	4				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Ashley Gioveng					Reported: 5/19/2023 9:50:46AM
	Nonh	alogenated Org	anics b	y 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
Blank (2320061-BLK1)							Prepared: 0	5/17/23 A	Analyzed: 05/17/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			
LCS (2320061-BS1)							Prepared: 0	5/17/23 A	Analyzed: 05/17/23
Diesel Range Organics (C10-C28)	233	25.0	250		93.2	38-132			
Surrogate: n-Nonane	42.6		50.0		85.1	50-200			
Matrix Spike (2320061-MS1)				Source:	E305092-	05	Prepared: 0	5/17/23 A	Analyzed: 05/17/23
Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.1	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			
Matrix Spike Dup (2320061-MSD1)				Source:	E305092-	05	Prepared: 0	5/17/23 A	Analyzed: 05/18/23
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132	0.926	20	
Surrogate: n-Nonane	42.7		50.0		85.4	50-200			



QC Summary Data

		$\chi \sim \sim$								
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	(Federal G Gas 0 01058-0007					Repor	
Carlsbad NM, 88220		Project Manager:		Ashley Gioveng	go				5/19/2023 9	0:50:46AM
		Anions	by EPA	300.0/9056A	١				Analyst: R	RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	No	otes
Blank (2320037-BLK1)							Prepared: 0	5/16/23	Analyzed: 05/	/16/23
Chloride	ND	20.0								
LCS (2320037-BS1)							Prepared: 0	5/16/23	Analyzed: 05	/16/23
Chloride	252	20.0	250		101	90-110				
Matrix Spike (2320037-MS1)				Source:	E305083-2	21	Prepared: 0	5/16/23	Analyzed: 05	/16/23
Chloride	257	20.0	250	ND	103	80-120				
Matrix Spike Dup (2320037-MSD1)				Source:	E305083-2	21	Prepared: 0	5/16/23	Analyzed: 05	/16/23
Chloride	256	20.0	250	ND	102	80-120	0.247	20		

QC Summary Report Comment:

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



Ensolum, LLC	Project Name:	Federal G Gas Com 1	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/19/23 09:50

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.



Relea

Received by OCD: 7/26/2023 9:27:22 AM

Project Mi Address: City, State Phone: 57 Email: agi Report du Time 9:19 5 9:15 5 10:52 5 10:49 5 12:47 5	Federal G Ga Janager: Ash 3122 Nation g, Zip: Carlsh 75-988-0055 jiovengo@er je by: Date Sampled 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	hley Giov nal Parks bad NM, 5	Hwy 88220 com	Sample ID	Attention: Jim Raley Address: 5315 Buena Vista Dr City, State, Zip: Carlsbad NM, 88 Phone: (575)689-7597 Email: jim.raley@dvn.com SW01 - 0-5.5' SW02 - 0-5.5' SW02 - 0-5.5' SW07 - 0-4' SW21 - 4-12'	Lab Number	Lab WC	509	oy 8260	010		er Metho	Redoc NM	2D	GDOC TX	Standard x NM CO x	CWA State UT AZ Remarks	SDWA RCRA
Address: City, State Phone: 57 Email: agi Report du Time Sampled 9:19 9:15 9:15 10:52 10:49 5 12:47 5	3122 Nation e, Zip: Carlsl 75-988-0055 jovengo@er je by: Date Sampled 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	nal Parks bad NM, 5 nsolum.c Matrix Soil Soil Soil Soil	Hwy 88220 com No. of Containers 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar	Sample ID	City, State, Zip: Carlsbad NM, 88 Phone: (575)689-7597 Email: jim.raley@dvn.com SW01 - 0-5.5' SW02 - 0-5.5' SW07 - 0-4'	Lab Number 1 2		by 8021	oy 8260	Analy	/sis and		X BGDOC NM				UT AZ	
City, StatePhone: 57Email: agiReport duTime9:199:1510:5210:49512:47	e, Zip: Carlsl 75-988-0055 jovengo@er ie by: Date Sampled 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	bad NM, 5 nsolum.c Matrix Soil Soil Soil Soil	88220 No. of Containers 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar	Sample ID	Phone: (575)689-7597 Email: jim.raley@dvn.com SW01 - 0-5.5' SW02 - 0-5.5' SW07 - 0-4' SW07 - 0-4'	Lab Number 1 2	TPH GRO/DRO/ORO by	8015 BTEX by 8021	oy 8260			J Metho	X BGDOC NM				UT AZ	
Phone: 57 Email: agi Report du Time Time 1 9:19 5 9:15 5 10:52 5 10:49 5 12:47 5	75-988-0055 iovengo@er ie by: Date Sampled 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	5 nsolum.c Matrix Soil Soil Soil Soil	No. of Containers 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar	Sample ID	Email: jim.raley@dvn.com SW01 - 0-5.5' SW02 - 0-5.5' SW07 - 0-4'	Number	TPH GRO/DRO/ORO by	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		× BGDOC				UT AZ	TX
Email: agi Report du Time Sampled 9:19 9:15 10:52 10:49 12:47	iovengo@er ie by: Date Sampled 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	Matrix Soil Soil Soil Soil Soil	No. of Containers 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar	Sample ID	SW01 - 0-5.5' SW02 - 0-5.5' SW07 - 0-4'	Number	TPH GRO/DRO/ORO	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		× BGDOC				UT AZ	TX
Report du Time Sampled 1 9:19 5 9:15 5 10:52 5 10:49 5 12:47 5	Le by: Date Sampled 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	Matrix Soil Soil Soil Soil Soil	No. of Containers 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar	Sample ID	SW01 - 0-5.5' SW02 - 0-5.5' SW07 - 0-4'	Number	TPH GRO/DRO/C	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		× BGDOC					TX
Time Sampled I 9:19 5 9:15 5 10:52 5 10:49 5 12:47 5	Date Sampled 5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	Soil Soil Soil Soil Soil	Containers 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar	Sample ID	SW02 - 0-5.5' SW07 - 0-4'	Number	TPH GRO/DF	8015 BTEX by 802	VOC by 8260	Metals 6010	Chloride 300		× BGDOC			×	Remarks	
Sampled I 9:19 5 9:15 5 10:52 5 10:49 5 12:47 5	5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	Soil Soil Soil Soil Soil	Containers 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar	Sample ID	SW02 - 0-5.5' SW07 - 0-4'	Number	TPH GRC	BTEX by	VOC by 8	Metals 6	Chloride		x		GDOC		Remarks	
9:19 5 9:15 5 10:52 5 10:49 5 12:47 5	5/12/2023 5/12/2023 5/12/2023 5/12/2023 5/12/2023	Soil Soil Soil Soil Soil	Containers 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar 1 Jar		SW02 - 0-5.5' SW07 - 0-4'	12	HdI	8015 BTE)	VOC	Met	Chlo		x		GDC		Remarks	
9:15 5 10:52 5 10:49 5 12:47 5	5/12/2023 5/12/2023 5/12/2023 5/12/2023	Soil Soil Soil Soil	1 Jar 1 Jar 1 Jar		SW02 - 0-5.5' SW07 - 0-4'	Contraction of the second second							x					
10:52 5 10:49 5 12:47 5	5/12/2023 5/12/2023 5/12/2023	Soil Soil Soil	1 Jar 1 Jar		SW07 - 0-4'	Contraction of the second second												
10:49 5 12:47 5	5/12/2023 5/12/2023	Soil Soil	1 Jar			Contraction of the second second							X					
12:47 5	5/12/2023	Soil			SW21 - 4-12'								x					
			1 Jar			4							x					
15:27 5	5/12/2023	Soil			SW23 - 4-12'	5							x					
			1 Jar		SW18 - 0-6'	0							x					
								1										
						1985												
dditional	I Instruction	ns: Plea	se CC: cb	urton@ensolum	n.com, agiovengo@ensolum.com, j	jim.raley@dv	vn.com	-										
				y of this sample. I am y be grounds for legal a	aware that tampering with or intentionally misl action. Sampled by:	abelling the samp	ole location	i.		1.00		the state of the state				ceived on ice the da ess than 6 °C on sub		led or
	by: (Signature		Date	5-23 Z:5	Received by: (Signature)	h SIS	J3 Tir	1º45	56	Rec	eived	on ice:	1000	ab Us	e On	ly		
nucl	d by: (Signature	und	+ Date	1523 ITIME	Received by: (Signature)	Date 5.15	Tir	173	0	T1			T2			<u>T3</u>		
Relinquished	d by: (Signature		Date	15.23 Ime	Received by: (Signature)	- 5/10	, Tir	1:30	0	AVG	6 Temp	°c_4	1					
ample Matrix	x: S - Soil, Sd - So	olid, S g - Slu			_	Containe								ass, v	- VOA	4		
					ss other arrangements are made. Hazardo bry with this COC. The liability of the labora	ous samples wil	l be retur	ned to	client	or disp	oosed o	f at the d		_			analysis of t	the above
										1	2		-	-	-	/ir	L	-
										E	3		0			Ira	OT	P

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC	Date Received:	05/16/23	08:30	Work Order ID:	E305092
Phone:	(575) 988-0055	Date Logged In:	05/15/23	16:45	Logged In By:	Caitlin Mars
Email:		Due Date:	05/22/23	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	h the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	ed analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are a minutes of sampling	,	Yes			
13. If no	visible ice, record the temperature. Actual sample to	emperature: 4°	с			
	Container		-			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field La	abel					
20. Were	e field sample labels filled out with the minimum inform	mation:				
1	Sample ID?		Yes			
	Date/Time Collected?		No	L		
	Collectors name?		No			
	<u>Preservation</u>	nomiad?	NT-			
	s the COC or field labels indicate the samples were pre-	501 VCU?	No NA			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved me	tals?	NA			
		w10 i	INU			
	nase Sample Matrix	.9	ът			
	s the sample have more than one phase, i.e., multiphase		No			
	es, does the COC specify which phase(s) is to be analyz	eu?	NA			
	tract Laboratory	a	No			
no +		· /	INO			
	a subcontract laboratory specified by the client and if s		NA	Subcontract Lab: NA		

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name:

Federal G Gas Com 1

Work Order:

Job Number: 01058-0007

E305097

Received: 5/17/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 5/18/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/18/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: Federal G Gas Com 1 Workorder: E305097 Date Received: 5/17/2023 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/17/2023 7:00:00AM, under the Project Name: Federal G Gas Com 1.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)



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Chain of Custody etc.	13

Received by OCD: 7/26/2023 9:27:22 AM			Page 3	94 of 521
	Sample Sum	mary		
Ensolum, LLC	Project Name:	Federal G Gas Com 1	Dementede	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/18/23 15:49	

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS27 - 15'	E305097-01A Soil	05/15/23	05/17/23	Glass Jar, 2 oz.
SW12 - 0 - 6'	E305097-02A Soil	05/15/23	05/17/23	Glass Jar, 2 oz.



Case Narative:

Project Name: Federal G Gas Com 1 Workorder:E305097 Date Received: 05/17/23 07:00

Laboratory mislabeled samples on original COC. Client brought this issue to our attention over the phone after a preliminary report had been sent. Lab made an updated (green) COC to show the corrected sample identification per client request. The final report reflects the updated (green) COC.

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

Respectfully,

Walter Hinchman



	Da	imple D	ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manage	r: 010:	eral G Gas C 58-0007 ley Gioveng			Reported: 5/18/2023 3:49:05PM
	-	FS27 - 15'				
]	E305097-01				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2320047
Benzene	ND	0.0250	1	05/17/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/17/23	05/17/23	
Toluene	0.400	0.0250	1	05/17/23	05/17/23	
-Xylene	0.336	0.0250	1	05/17/23	05/17/23	
,m-Xylene	2.29	0.0500	1	05/17/23	05/17/23	
Total Xylenes	2.62	0.0250	1	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene		76.6 %	70-130	05/17/23	05/17/23	
urrogate: 1,2-Dichloroethane-d4		104 %	70-130	05/17/23	05/17/23	
urrogate: Toluene-d8		115 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2320047
Gasoline Range Organics (C6-C10)	418	20.0	1	05/17/23	05/17/23	
urrogate: Bromofluorobenzene		76.6 %	70-130	05/17/23	05/17/23	
urrogate: 1,2-Dichloroethane-d4		104 %	70-130	05/17/23	05/17/23	
urrogate: Toluene-d8		115 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: JL		Batch: 2320045
Diesel Range Organics (C10-C28)	3030	25.0	1	05/17/23	05/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
urrogate: n-Nonane		243 %	50-200	05/17/23	05/17/23	\$5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: RAS		Batch: 2320049
Chloride	154	20.0	1	05/17/23	05/17/23	


Sample Data

		imple D	uua			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manage	r: 0105	eral G Gas C 58-0007 ley Gioveng			Reported: 5/18/2023 3:49:05PM
	S	W12 - 0 - 6'				
]	E305097-02				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RKS		Batch: 2320047
Benzene	ND	0.0250	1	05/17/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/17/23	05/17/23	
Toluene	ND	0.0250	1	05/17/23	05/17/23	
p-Xylene	ND	0.0250	1	05/17/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/17/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130	05/17/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/17/23	05/17/23	
Surrogate: Toluene-d8		99.0 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RKS		Batch: 2320047
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130	05/17/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/17/23	05/17/23	
Surrogate: Toluene-d8		99.0 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL		Batch: 2320045
Diesel Range Organics (C10-C28)	50.8	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
Surrogate: n-Nonane		89.7 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS		Batch: 2320049
Chloride	113	20.0	1	05/17/23	05/17/23	



QC Summary Data

		QU SI		ry Data	a					
Ensolum, LLC		Project Name:		deral G Gas C	Com 1				Reported:	
3122 National Parks Hwy		Project Number:	01	058-0007						
Carlsbad NM, 88220		Project Manager:	As	shley Gioveng	jo			5/1	8/2023 3:49:05PM	
	Y	Volatile Organic	Compo	unds by EI	PA 82601	3	Analyst: RKS			
Analyte		Reporting Limit	Spike	Source	P	Rec	DDD	RPD		
	Result mg/kg	mg/kg	Level mg/kg	Result mg/kg	Rec %	Limits %	RPD %	Limit %	Notes	
Blank (2320047-BLK1)							Prepared:	05/17/23 An	alyzed: 05/17/23	
Benzene	ND	0.0250					1		5	
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	0.530		0.500		106	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130				
Surrogate: Toluene-d8	0.533		0.500		107	70-130				
LCS (2320047-BS1)							Prepared:	05/17/23 An	alyzed: 05/17/23	
Benzene	2.33	0.0250	2.50		93.2	70-130				
Ethylbenzene	2.48	0.0250	2.50		99.0	70-130				
Toluene	2.48	0.0250	2.50		99.4	70-130				
o-Xylene	2.70	0.0250	2.50		108	70-130				
p,m-Xylene	5.35	0.0500	5.00		107	70-130				
Total Xylenes	8.05	0.0250	7.50		107	70-130				
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130				
Surrogate: Toluene-d8	0.542		0.500		108	70-130				
Matrix Spike (2320047-MS1)				Sourc	e: E30509	6-24	Prepared:	05/17/23 An	alyzed: 05/17/23	
Benzene	2.41	0.0250	2.50	ND	96.4	48-131				
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135				
Toluene	2.57	0.0250	2.50	ND	103	48-130				
o-Xylene	2.77	0.0250	2.50	ND	111	43-135				
p,m-Xylene	5.50	0.0500	5.00	ND	110	43-135				
Total Xylenes	8.27	0.0250	7.50	ND	110	43-135				
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130				
Surrogate: Toluene-d8	0.541		0.500		108	70-130				
Matrix Spike Dup (2320047-MSD1)				Sourc	e: E30509	6-24			alyzed: 05/17/23	
Benzene	2.48	0.0250	2.50	ND	99.3	48-131	2.94	23		
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	1.98	27		
Toluene	2.64	0.0250	2.50	ND	106	48-130	2.82	24		
o-Xylene	2.88	0.0250	2.50	ND	115	43-135	3.91	27		
p,m-Xylene	5.73	0.0500	5.00	ND	115	43-135	4.05	27		
Total Xylenes	8.61	0.0250	7.50	ND	115	43-135	4.00	27		
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130				



QC Summary Data

		QC S	uIIIII	ary Data	a				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Ashley Gioveng					Reported: 5/18/2023 3:49:05PM
	N	onhalogenated O	rganic	s by EPA 80	15D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2320047-BLK1)							Prepared:	05/17/23	Analyzed: 05/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
LCS (2320047-BS2)							Prepared:	05/17/23	Analyzed: 05/17/23
Gasoline Range Organics (C6-C10)	59.8	20.0	50.0		120	70-130			
Surrogate: Bromofluorobenzene	0.553		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
Matrix Spike (2320047-MS2)				Source	e: E30509	6-24	Prepared:	05/17/23	Analyzed: 05/17/23
Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike Dup (2320047-MSD2)				Source	e: E30509	6-24	Prepared:	05/17/23	Analyzed: 05/17/23
Gasoline Range Organics (C6-C10)	57.5	20.0	50.0	ND	115	70-130	3.40	20	
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

		QU D	umm	ary Data					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	Federal G Gas C 11058-0007 Ashley Gioveng					Reported: 5/18/2023 3:49:05PM
	Nonha	logenated Org	anics by	7 EPA 8015E) - 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
Blank (2320045-BLK1)							Prepared:	05/17/23	Analyzed: 05/17/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			
LCS (2320045-BS1)							Prepared:	05/17/23	Analyzed: 05/17/23
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	38.5		50.0		77.1	50-200			
Matrix Spike (2320045-MS1)				Source	e: E30509	7-01	Prepared:	05/17/23	Analyzed: 05/17/23
Diesel Range Organics (C10-C28)	3500	25.0	250	3030	189	38-132			M4
Surrogate: n-Nonane	136		50.0		272	50-200			\$5
Matrix Spike Dup (2320045-MSD1)				Source	e: E30509	7-01	Prepared:	05/17/23	Analyzed: 05/17/23
Diesel Range Organics (C10-C28)	3210	25.0	250	3030	74.7	38-132	8.53	20	
Surrogate: n-Nonane	118		50.0		235	50-200			S5



QC Summary Data

		L = 10	••••••						
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(Federal G Gas (01058-0007 Ashley Gioveng					Reported: 5/18/2023 3:49:05PM
		Anions	by EPA	300.0/9056A	1				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2320049-BLK1)							Prepared:	05/17/23	Analyzed: 05/17/23
Chloride	ND	20.0							
LCS (2320049-BS1)							Prepared:	05/17/23	Analyzed: 05/17/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2320049-MS1)				Sourc	e: E30509	6-21	Prepared:	05/17/23	Analyzed: 05/17/23
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2320049-MSD1)				Sourc	e: E30509	6-21	Prepared:	05/17/23	Analyzed: 05/17/23
Chloride	259	20.0	250	ND	104	80-120	1.54	20	

QC Summary Report Comment:

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



	Demitions		
Ensolum, LLC	Project Name:	Federal G Gas Com 1	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/18/23 15:49

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

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.



Release

Page 1 of

ect: Federal ect Manager ress: 3122 N , State, Zip: ne: 575-988 ail: agioveng ort due by:	: Ash lation Carlst -0055	nley Giov nal Parks				Attention: Jim Raley								CARL SHOULD BE AN ADDRESS OF THE OWNER OWNE	110	120	120	Sta	in alound	CIALA	0
ress: 3122 N , State, Zip: ne: 575-988 ail: agioveng ort due by:	lation Carlsb -0055	nal Parks						Lab	WO#	- 10		Job				2D	3D	Jla	ndard	CWA	SDW
, State, Zip: ne: 575-988 ail: agioveng ort due by:	Carlsb -0055		11			Address: 5315 Buena Vista Dr		ES	3050	29-		010	58	10007	X						
ne: 575-988 ail: agioveng ort due by:	-0055	oad NM,				City, State, Zip: Carlsbad NM, 882	20					Analy	sis a	nd Metho	d	-					RCR.
ail: agioveng ort due by:			88220		_	Phone: (575)689-7597			h										100		
ort due by:	o@en			-	_	Email: jim.raley@dvn.com			ORO											State	
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me Data Car									0/0	/ 802	826	601(e 30		1		X T		×		
pled Date Sam	pled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
:49 5/15/2	023	Soil	1 Jar		-	SW12 - 0-6'	1								x						
:22 5/15/2	023	Soil	1 Jar			FS27 - 15'	2								x						
														2		-					
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litional Instru	iction	ns: Plea	ase CC: cl	ourton@enso	olum.co	om, agiovengo@ensolum.com, jin	n.raley@dv	n.co	m												
or time of collecti		nsidered fr		ty of this sample. Iy be grounds for		re that tampering with or intentionally mislab m. <u>Sampled by:</u>	elling the samp	le loca	tion,			1000		ring thermal p ed in ice at an							led or
uisbed by: (Sig	(8	Date		s:39a	m Wichell Church	Date 5-16-	4	Time 8	39	ì	Rece	eivec	on ice:		ab U: Y / N	se On J	nly		and and an	
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le Matrix: S - Soil			and the second sec	and the second se		//	and the second se			_				:, ag - amb			_				
						ther arrangements are made. Hazardous									ient e	expens	e. Th	e repo	rt for the a	nalysis of t	he abo
oles is applicable	e only t	to those sa	amples rec	eived by the lab	oratory	with this COC. The liability of the laborato	ry is limited t	o the a	amour	nt paid	d for	on the	e repo	rt.		-					

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Received by OCD: 7/26/2023 9:27:22 AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC Da	ate Received:	05/17/23	07:00	Work Order ID:	E305097
Phone:	(575) 988-0055 Da	ate Logged In:	05/16/23	17:01	Logged In By:	Keyliegh Hall
Email:		ue Date:	05/17/23	17:00 (0 day TAT)		
Chain o	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did th	e 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 th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re	,	Yes			
	minutes of sampling					
13. If no	visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>C</u>			
Sample	Container					
14. Are :	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is th	e 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	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	abel					
	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected? Collectors name?		Yes			
	Preservation		No			
	s the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved meta	ıls?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
	es, does the COC specify which phase(s) is to be analyzed		NA			
•			117			
	tract Laboratory		No			
	a subcontract laboratory specified by the client and if so		NO	Subcontract Lab: NA		
27. Was	a subcontract laboratory specified by the chefit and fi so	wild:	1174	Subcontract LaD: NA		

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



envirotech Inc.

Page _____ of ____

Project I	nformation					Cha	in of Custo	vho										P	age
(tojece i	mormation						in or cusic	,,											
Client:	Ensolum, LLC				1633	Bill To	The second	1	1893	Lab	Use C	nly	a service of	1000		TAT		EPA P	rogra
and the second se	Federal G G	A CONTRACTOR OF A CONTRACTOR		Salar Salar	a state	Attention: Jim Raley		Lab	WO#	1		Num	ber	1D 2	A DESCRIPTION OF THE OWNER	and the second s	andard	CWA	SDV
	Manager: As				- Charles	Address: 5315 Buena Vista Dr	102 1 10	FB	osc	PP.	COLUMN THE REPORT		10007	and the second second					1217
And the second s	: 3122 Natio	and the second se	Constant of the		100 C 100 C 100 C 100	City, State, Zip: Carlsbad NM, 8822	0						nd Metho				California and	10000	RC
and the second se	te, Zip: Carl	and the second se	and a present of the second se		A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE	Phone: (575)689-7597			2			1		Tore F	T			E START	
	575-988-005		Service Service		1000 States	Email: jim.raley@dvn.com			⁸ 0				here and	E LENG		212.1		State	1
The second division of the second sec	agiovengo@e	the second s	com			enton junitaleye avrileon			%		1	0	121	5			NM CO		TXI
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Time	Constanting the		No. of	I States	- California -		Lab		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VUL by 8260 Metals 6010	Chloride 300.0		BGDOC	1	,	×		
Sampled	Date Sampled	Matrix	Containers	Sample ID			Number		PH 015	TEX	Aeta	hlor	1.0	GD	CDOC	3		Remarks	5
11:49	5/15/2023		1.1.1	The second second	Carlos	CW12-0-CL	The sector				2 2			-		-	1		
11.45	5/15/2025	Soil	1 Jar	a seat		5W12-0-6" FS27-15'								X			Sam	ples	(110
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1 13.22	5/15/2025	Soil	1 Jar	1.00		FS27-15' SW 12-0-6	2	Sall	in al	25	S. E.V.			X		74	mich	holar	JL
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date or tim	of collection is	considered f	fraud and ma	ay be grounds for	egal acti	on. Sampled by:	Freehr - Co		-	GARLE	rece	ived pack	ed in ice at a	n avg temp	above 0	but less th	an 6 °C on subs	equent days.	
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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: F

Federal G Gas Com 1

Work Order: E305098

Job Number: 01058-0007

Received: 5/17/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 5/18/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/18/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: Federal G Gas Com 1 Workorder: E305098 Date Received: 5/17/2023 7:00:00AM

Ashley Giovengo,



Page 407 of 521

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/17/2023 7:00:00AM, under the Project Name: Federal G Gas Com 1.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 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 reguarding 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

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Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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v		Sample Sum	mary		0
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	Federal G Gas Com 01058-0007	1	Reported:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo		05/18/23 15:51
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS27 - 16"	E305098-01A	Soil	05/15/23	05/17/23	Glass Jar, 2 oz.



		imple D	aca			
Ensolum, LLC 3122 National Parks Hwy	Project Name: Project Numbe	er: 010	Federal G Gas Com 1 01058-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Ash	ley Gioveng	0		5/18/2023 3:51:33PM
]	FS27 - 16''				
	-	E305098-01				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	ŀ	Analyst: RKS		Batch: 2320047
Benzene	ND	0.125	5	05/17/23	05/17/23	
Ethylbenzene	ND	0.125	5	05/17/23	05/17/23	
Toluene	1.96	0.125	5	05/17/23	05/17/23	
p-Xylene	0.988	0.125	5	05/17/23	05/17/23	
o,m-Xylene	7.02	0.250	5	05/17/23	05/17/23	
Total Xylenes	8.01	0.125	5	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene		88.0 %	70-130	05/17/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	05/17/23	05/17/23	
Surrogate: Toluene-d8		110 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2320047
Gasoline Range Organics (C6-C10)	1110	100	5	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene		88.0 %	70-130	05/17/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	05/17/23	05/17/23	
Surrogate: Toluene-d8		110 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: JL		Batch: 2320045
Diesel Range Organics (C10-C28)	4960	25.0	1	05/17/23	05/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
Surrogate: n-Nonane		469 %	50-200	05/17/23	05/17/23	<i>S5</i>
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2320049
Chloride	128	20.0	1	05/17/23	05/17/23	

Sample Data



QC Summary Data

		<u>v</u> u si	11111118	ry Data	a					
Ensolum, LLC		Project Name:		ederal G Gas (Com 1				Reported:	
3122 National Parks Hwy		Project Number:		058-0007				- (·	5/10/2022 - 2 51 22D 4	
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo				5/18/2023 3:51:33P			
	Volatile Organic Compounds by EPA 8260B Analyst: RKS									
Analyte		Reporting	Spike	Source		Rec	DDD	RPD		
	Result mg/kg	Limit mg/kg	Level mg/kg	Result mg/kg	Rec %	Limits %	RPD %	Limit %	Notes	
Blank (2320047-BLK1)							Prepared: 0:	5/17/23 Anal	yzed: 05/17/23	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
p-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250	0.500		107	70.100				
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130				
Surrogate: Toluene-d8	0.533		0.500		107	70-130				
LCS (2320047-BS1)							Prepared: 0	5/17/23 Anal	yzed: 05/17/23	
Benzene	2.33	0.0250	2.50		93.2	70-130				
Ethylbenzene	2.48	0.0250	2.50		99.0	70-130				
Toluene	2.48	0.0250	2.50		99.4	70-130				
p-Xylene	2.70	0.0250	2.50		108	70-130				
o,m-Xylene	5.35	0.0500	5.00		107	70-130				
Total Xylenes	8.05	0.0250	7.50		107	70-130				
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130				
Surrogate: Toluene-d8	0.542		0.500		108	70-130				
Matrix Spike (2320047-MS1)				Source:	E305096-2	24	Prepared: 0:	yzed: 05/17/23		
Benzene	2.41	0.0250	2.50	ND	96.4	48-131				
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135				
Toluene	2.57	0.0250	2.50	ND	103	48-130				
p-Xylene	2.77	0.0250	2.50	ND	111	43-135				
o,m-Xylene	5.50	0.0500	5.00	ND	110	43-135				
Total Xylenes	8.27	0.0250	7.50	ND	110	43-135				
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130				
Surrogate: Toluene-d8	0.541		0.500		108	70-130				
Matrix Spike Dup (2320047-MSD1)				Source:	E305096-2	24	Prepared: 0	5/17/23 Anal	yzed: 05/17/23	
Benzene	2.48	0.0250	2.50	ND	99.3	48-131	2.94	23		
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	1.98	27		
Toluene	2.64	0.0250	2.50	ND	106	48-130	2.82	24		
Toluene		0.0250	2.50	ND	115	43-135	3.91	27		
o-Xylene	2.88	0.0250								
	2.88 5.73	0.0230	5.00	ND	115	43-135	4.05	27		
p-Xylene			5.00 7.50	ND ND	115 115	43-135 43-135	4.05 4.00	27 27		
p-Xylene p,m-Xylene	5.73	0.0500								
o-Xylene o,m-Xylene Fotal Xylenes	5.73 8.61	0.0500	7.50		115	43-135				



QC Summary Data

		QC S	umm	ary Data	a						
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	Federal G Gas C)1058-0007 Ashley Gioveng					Reported: 5/18/2023 3:51:33PM		
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2320047-BLK1)				Prepared: 05			d: 05/17/23 Analyzed: 05/17/23				
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130					
Surrogate: Toluene-d8	0.533		0.500		107	70-130					
LCS (2320047-BS2)							Prepared: 0	5/17/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	59.8	20.0	50.0		120	70-130					
Surrogate: Bromofluorobenzene	0.553		0.500		111	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130					
Surrogate: Toluene-d8	0.547		0.500		109	70-130					
Matrix Spike (2320047-MS2)				Source:	E305096-2	24	Prepared: 0	5/17/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130					
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130					
Surrogate: Toluene-d8	0.550		0.500		110	70-130					
Matrix Spike Dup (2320047-MSD2)				Source:	E305096-2	24	Prepared: 0	5/17/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	57.5	20.0	50.0	ND	115	70-130	3.40	20			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130					
Surrogate: Toluene-d8	0.541		0.500		108	70-130					



QC Summary Data

		QC DI	u 111111	aly Data	ł				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(Federal G Gas C)1058-0007 Ashley Gioveng					Reported: 5/18/2023 3:51:33PM
	Nonha	alogenated Orga	anics by	y 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
Blank (2320045-BLK1)							Prepared: 0	5/17/23 A	analyzed: 05/17/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			
LCS (2320045-BS1)							Prepared: 0	5/17/23 A	analyzed: 05/17/23
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	38.5		50.0		77.1	50-200			
Matrix Spike (2320045-MS1)				Source: l	E305097-	01	Prepared: 0	5/17/23 A	analyzed: 05/17/23
Diesel Range Organics (C10-C28)	3500	25.0	250	3030	189	38-132			M4
Surrogate: n-Nonane	136		50.0		272	50-200			\$5
Matrix Spike Dup (2320045-MSD1)				Source: l	E305097-	01	Prepared: 0	5/17/23 A	analyzed: 05/17/23
Diesel Range Organics (C10-C28)	3210	25.0	250	3030	74.7	38-132	8.53	20	
Surrogate: n-Nonane	118		50.0		235	50-200			\$5



QC Summary Data

					-				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Ashley Gioveng					Reported: 5/18/2023 3:51:33PM
		Anions	by EPA	300.0/9056A	۱				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2320049-BLK1)							Prepared: 0	5/17/23	Analyzed: 05/17/23
Chloride	ND	20.0							
LCS (2320049-BS1)							Prepared: 0:	5/17/23	Analyzed: 05/17/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2320049-MS1)				Source:	E305096-2	21	Prepared: 0:	5/17/23	Analyzed: 05/17/23
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2320049-MSD1)				Source:	E305096-2	21	Prepared: 0:	5/17/23	Analyzed: 05/17/23
Chloride	259	20.0	250	ND	104	80-120	1.54	20	

QC Summary Report Comment:

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



	Demition		
Ensolum, LLC	Project Name:	Federal G Gas Com 1	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/18/23 15:51

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

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.



Release Project Information

Received by OCD: 7/26/2023 9:27:22 AM

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State M CO UT AZ TX ×
M CO UT AZ TX
M CO UT AZ TX
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Remarks
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ce the day they are sampled or °C on subsequent days.
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for the analysis of the above
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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC D	ate Received:	05/17/23	07:00	Work Order ID:	E305098
Phone:	(575) 988-0055 D	ate Logged In:	05/16/23	17:05	Logged In By:	Caitlin Mars
Email:	a.giovengo@ensolum.com D	ue Date:	05/17/23	17:00 (0 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was tł	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comment	s/Resolution
<u>Sample '</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: 4°	с			
	Container	1				
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample container	s collected?	Yes			
Field La	ibel					
20. Were	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
_	Preservation	erved?	No			
	sample(s) correctly preserved?		No NA			
	o filteration required and/or requested for dissolved met	als?	NA			
		u10 i	INU			
	<u>ase Sample Matrix</u> ; the sample have more than one phase, i.e., multiphase?	,	.			
<u>Multiph</u>			No			
<u>Multiph</u> 26. Does		.49	3.7.4			
Multiph 26. Does 27. If yes	s, does the COC specify which phase(s) is to be analyze	ed?	NA			
Multiph 26. Does 27. If yes Subcont	s, does the COC specify which phase(s) is to be analyze ract Laboratory					
Multiph 26. Does 27. If yes Subcont 28. Are s	s, does the COC specify which phase(s) is to be analyze	,	NA No NA			

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name:

Federal G Gas Com 1

Work Order: E305099

Job Number: 01058-0007

Received: 5/17/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 5/18/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/18/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: Federal G Gas Com 1 Workorder: E305099 Date Received: 5/17/2023 7:00:00AM

Ashley Giovengo,



C

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/17/2023 7:00:00AM, under the Project Name: Federal G Gas Com 1.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 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 reguarding 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

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Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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v		Sample Sum	mary		0
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:		1	Reported:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo		05/18/23 15:15
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS27 - 19"	E305099-01A	Soil	05/15/23	05/17/23	Glass Jar, 2 oz.



	50	imple D	ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manage	r: 010	eral G Gas C 58-0007 ley Giovengo			Reported: 5/18/2023 3:15:59PM
Carisbad NM, 88220	Project Manage	er: Asn	ley Glovenge	0		5/18/2025 5:15:59PW
]	FS27 - 19''				
]	E305099-01				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2320047
Benzene	ND	0.125	5	05/17/23	05/17/23	
Ethylbenzene	ND	0.125	5	05/17/23	05/17/23	
Toluene	3.65	0.125	5	05/17/23	05/17/23	
o-Xylene	1.30	0.125	5	05/17/23	05/17/23	
p,m-Xylene	10.0	0.250	5	05/17/23	05/17/23	
Total Xylenes	11.3	0.125	5	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene		89.6 %	70-130	05/17/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/17/23	05/17/23	
Surrogate: Toluene-d8		109 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	analyst: RKS		Batch: 2320047
Gasoline Range Organics (C6-C10)	1080	100	5	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene		89.6 %	70-130	05/17/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/17/23	05/17/23	
Surrogate: Toluene-d8		109 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: JL		Batch: 2320045
Diesel Range Organics (C10-C28)	7550	125	5	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	250	5	05/17/23	05/17/23	
Surrogate: n-Nonane		678 %	50-200	05/17/23	05/17/23	<i>S5</i>
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: RAS		Batch: 2320049
Chloride	172	20.0	1	05/17/23	05/17/23	

Sample Data



QC Summary Data

			<u></u>	ry Dat	а				
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:		deral G Gas (058-0007	Com 1				Reported:
Carlsbad NM, 88220		Project Manager:		shley Gioveng	10			5/1	8/2023 3:15:59PM
Carisbad IVIV, 00220					-		J/16/2023 5.15.571 M		
		Volatile Organic	Compo	unds by El	PA 82601	3			Analyst: RKS
Analyte		Reporting	Spike	Source	_	Rec	000	RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2320047-BLK1)							Prepared: 0	5/17/23 Anal	yzed: 05/17/23
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	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
LCS (2320047-BS1)							Prepared: 0	5/17/23 Anal	yzed: 05/17/23
Benzene	2.33	0.0250	2.50		93.2	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.0	70-130			
Toluene	2.48	0.0250	2.50		99.4	70-130			
o-Xylene	2.70	0.0250	2.50		108	70-130			
p,m-Xylene	5.35	0.0500	5.00		107	70-130			
Total Xylenes	8.05	0.0250	7.50		107	70-130			
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			
Matrix Spike (2320047-MS1)				Source:	E305096-	74	Prepared: 0	5/17/23 Anal	yzed: 05/17/23
• • •	2.41	0.0250	2.50			48-131	i iopaicai o		<u>j200.00,1,120</u>
Benzene	2.41	0.0250	2.50 2.50	ND ND	96.4 103	48-131 45-135			
Ethylbenzene Toluene	2.57	0.0250 0.0250	2.50	ND	103	45-135 48-130			
o-Xylene	2.37	0.0250	2.50	ND	103	48-130			
p,m-Xylene	5.50	0.0250	5.00	ND	110	43-135			
p,m-Xylene Total Xylenes	8.27	0.0250	7.50	ND	110	43-135			
Surrogate: Bromofluorobenzene	0.533	0.0250	0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.492 0.541		0.500 0.500		98.3 108	70-130 70-130			
-	0.071			C			D 1.0		1.05/17/22
Matrix Spike Dup (2320047-MSD1) Benzene	2.48	0.0250	2.50	Source: ND	E305096-2 99.3	48-131	2.94	23 23 27	yzed: 05/17/23
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	1.98	27	
Toluene	2.64	0.0250	2.50	ND	105	48-130	2.82	24	
o-Xylene	2.88	0.0250	2.50	ND	115	43-135	3.91	27	
p,m-Xylene	5.73	0.0500	5.00	ND	115	43-135	4.05	27	
Total Xylenes	8.61	0.0250	7.50	ND	115	43-135	4.00	27	
Surrogate: Bromofluorobenzene	0.542	== .	0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichioroethane-a4 Surrogate: Toluene-d8	0.486		0.500		107				
						70-130			



QC Summary Data

		Ľ		ii y Data					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	ederal G Gas C 1058-0007 shley Gioveng					Reported: 5/18/2023 3:15:59PM
	No	onhalogenated O	rganics	by EPA 801	5D - GR	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2320047-BLK1)							Prepared: 0	5/17/23	Analyzed: 05/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
LCS (2320047-BS2)							Prepared: 0	5/17/23	Analyzed: 05/17/23
Gasoline Range Organics (C6-C10)	59.8	20.0	50.0		120	70-130			
Surrogate: Bromofluorobenzene	0.553		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
Matrix Spike (2320047-MS2)		Source: E305096-24 Prepare				Prepared: 0	5/17/23	Analyzed: 05/17/23	
Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike Dup (2320047-MSD2)				Source: l	E305096-2	4	Prepared: 0	5/17/23	Analyzed: 05/17/23
Gasoline Range Organics (C6-C10)	57.5	20.0	50.0	ND	115	70-130	3.40	20	
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			



QC Summary Data

		QC DI		ary Data	L				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	Federal G Gas C 11058-0007 Ashley Gioveng					Reported: 5/18/2023 3:15:59PM
	Nonha	alogenated Orga	anics by	FEPA 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
							D 10		1 1 05/15/22
Blank (2320045-BLK1)							Prepared: 0	5/17/23 A	analyzed: 05/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			
LCS (2320045-BS1)							Prepared: 0	5/17/23 A	analyzed: 05/17/23
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	38.5		50.0		77.1	50-200			
Matrix Spike (2320045-MS1)				Source:]	01	Prepared: 05/17/23 Analyzed: 05/17/23			
Diesel Range Organics (C10-C28)	3500	25.0	250	3030	189	38-132			M4
Surrogate: n-Nonane	136		50.0		272	50-200			\$5
Matrix Spike Dup (2320045-MSD1)				Source:	E305097-	01	Prepared: 0	5/17/23 A	analyzed: 05/17/23
Diesel Range Organics (C10-C28)	3210	25.0	250	3030	74.7	38-132	8.53	20	
Surrogate: n-Nonane	118		50.0		235	50-200			S5



QC Summary Data

		$\mathbf{x} \circ \sim$	••••••						
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(Federal G Gas ()1058-0007 Ashley Gioveng					Reported: 5/18/2023 3:15:59PM
Carisbau Nivi, 66220		, ,		300.0/9056	-				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2320049-BLK1)							Prepared: 0	5/17/23 A	Analyzed: 05/17/23
Chloride	ND	20.0							
LCS (2320049-BS1)							Prepared: 0	5/17/23 A	Analyzed: 05/17/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2320049-MS1)				Source:	E305096-2	21	Prepared: 0	5/17/23 A	Analyzed: 05/17/23
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2320049-MSD1)				Source:	E305096-2	21	Prepared: 0	5/17/23 A	Analyzed: 05/17/23
Chloride	259	20.0	250	ND	104	80-120	1.54	20	

QC Summary Report Comment:

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



Definitions and Policy									
Ensolum, LLC	Project Name:	Federal G Gas Com 1							
3122 National Parks Hwy	Project Number:	01058-0007	Reported:						
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/18/23 15:15						
	3122 National Parks Hwy	Ensolum, LLCProject Name:3122 National Parks HwyProject Number:	3122 National Parks Hwy Project Number: 01058-0007						

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

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.



roject Information

ent: Ensolum, LLC.	Bill To		Lab Use Only				TAT				EPA Program			
oject: Federal G Gas Com 1	Attention: Jim Raley		Lab WO	#	101	Job Number 01058-0007				1D 2D 3D		Standard	CWA	SDWA
pject Manager: Ashley Giovengo	Address: 5315 Buena Vista Dr	2	ESUS	202	17	00	28-0	100	X			Conservation and the		Den
dress: 3122 National Parks Hwy y, State, Zip: Carlsbad NM, 88220	<u>City, State, Zip: Carlsbad NM, 88220</u> Phone: (575)689-7597	,		T	-	Analy	sis and	Metho		-				RCRA
one: 575-988-0055			O pl									1000	Chata	1 mar
nail: agiovengo@ensolum.com	Email: jim.raley@dvn.com		N/OR						-			NINAL CO.	State	TYL
port due by:			DRC	021	60	10	00.00		MN		X	NM CO	UT AZ	IX
		Lab	RO/	by 8	y 82	s 60	de 3		N			×		
mpled Date Sampled Matrix No. of Containers Sample ID		Number	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
4:45 5/15/2023 Soil 1 Jar	FS27 - 19"	1			-	-			x					
	100 million (100 million)									1				
							-	_						
				-	-		-	-	-			-		
														-
														_
				=			-							+
					-									
													1	
		1.3%												
		(Arres)												
ditional Instructions: Please CC: cburton@er	olum.com, agiovengo@ensolum.com, jim.ı	l raley@dv	n.com						1				-	
eld samplen, altest to the validity and authenticity of this samp		ng the sampl	le location,									eived on ice the day ass than 6 °C on subsi		oled or
or time of collection is considered fraud and may be grounds to inguished by: (Signature) Date	legal action. Sampled by: ne Received by: (Signatyre)	Date	Time				des.	1008 C.			e Onl		C. Statement	
05/16/23	3:4Dam michele Eugs	5-162	38	40)	Rece	ived o	n ice:	100 C 100	/ N				
Middle Cingle 5-16-23	1015 Received by: (Signature)	Date 5.16.		600		<u>T1</u>			<u>T2</u>			<u>T3</u>	100	
Added by: (Signature) Date 5.16.23	400 Received by: (Signature)	Date 5/17/.	23 0	700	0	AVG	Temp	°c_4	1					
ple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Othe		Container												
e: Samples are discarded 30 days after results are report								at the cl	ient e	xpense	e. The	report for the a	analysis of t	the abov
pples is applicable only to those samples received by the	poratory with this COC. The liability of the laboratory	is limited to	o the amou	unt pai	id for a	on the	report.	-		-				

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	Ensolum, LLC	Date Received:	05/17/23	07:00	Work Order ID:	E305099
Phone:	(575) 988-0055 I	Date Logged In:	05/16/23	17:06	Logged In By:	Caitlin Mars
Email:		Due Date:	05/17/23	17:00 (0 day TAT)		
Chain o	<u>f Custody (COC)</u>					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
Sample	Turn Around Time (TAT)					
	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are r		Yes			
10 10	minutes of sampling		a			
13. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4</u> °	<u>C</u>			
	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers? a appropriate volume/weight or number of sample container	Photo allocated 9	Yes Yes			
		is confected?	res			
Field La	adel e field sample labels filled out with the minimum inforr	nation				
	Sample ID?	nation.	Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	Preservation					
	s the COC or field labels indicate the samples were pres	served?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	b filteration required and/or requested for dissolved me	tals?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase		No			
27. If ye	s, does the COC specify which phase(s) is to be analyze	ed?	NA			
	tract Laboratory					
Subcont	Hatt Eaboratory					
	samples required to get sent to a subcontract laboratory	?	No			



envirotech Inc.

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

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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: Fede

Federal G Gas Com 1

Work Order: E305100

Job Number: 01058-0007

Received: 5/17/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 5/18/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/18/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: Federal G Gas Com 1 Workorder: E305100 Date Received: 5/17/2023 7:00:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/17/2023 7:00:00AM, under the Project Name: Federal G Gas Com 1.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 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.

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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

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - GRO	7				
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8				
QC - Anions by EPA 300.0/9056A	9				
Definitions and Notes	10				
Chain of Custody etc.	11				
v		Sample Sum	mary		8
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Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	Federal G Gas Com 01058-0007	1	Reported:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo		05/18/23 15:30
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS27 - 21"	E305100-01A	Soil	05/15/23	05/17/23	Glass Jar, 2 oz.



	5 d	imple D				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Number Project Manage		eral G Gas C 58-0007 ley Gioveng			Reported: 5/18/2023 3:30:52PM
,			, 6			
	_	ES27 - 21'' E305100-01				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2320047
Benzene	ND	0.125	5	05/17/23	05/17/23	
Ethylbenzene	ND	0.125	5	05/17/23	05/17/23	
Toluene	2.28	0.125	5	05/17/23	05/17/23	
p-Xylene	0.775	0.125	5	05/17/23	05/17/23	
o,m-Xylene	6.01	0.250	5	05/17/23	05/17/23	
Fotal Xylenes	6.79	0.125	5	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene	9	92.3 %	70-130	05/17/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/17/23	05/17/23	
Surrogate: Toluene-d8		107 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RKS		Batch: 2320047
Gasoline Range Organics (C6-C10)	906	100	5	05/17/23	05/17/23	
Surrogate: Bromofluorobenzene	9	92.3 %	70-130	05/17/23	05/17/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/17/23	05/17/23	
Surrogate: Toluene-d8		107 %	70-130	05/17/23	05/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO) mg/kg	mg/kg	I	Analyst: JL		Batch: 2320045
Diesel Range Organics (C10-C28)	6190	250	10	05/17/23	05/17/23	
Dil Range Organics (C28-C36)	ND	500	10	05/17/23	05/17/23	
Surrogate: n-Nonane		554 %	50-200	05/17/23	05/17/23	<i>S5</i>
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: RAS		Batch: 2320049
Chloride	71.6	20.0	1	05/17/23	05/17/23	

Sample Data



QC Summary Data

	QC SI	1111111	i y Data	a				
	Project Name:	Fe	deral G Gas (Com 1				Reported:
	Project Number:	01	058-0007					
	Project Manager:	As	shley Gioveng	go			5/2	18/2023 3:30:52PM
Volatile Organic Compounds by EPA 8260B Analyst: R								
	Reporting	Spike	Source		Rec		RPD	
Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	5/17/23 Ana	lyzed: 05/17/23
ND	0.0250							
ND								
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
0.530		0.500		106	70-130			
		0.500		98.0	70-130			
0.533		0.500		107	70-130			
						Prepared: 0	5/17/23 Ana	lyzed: 05/17/23
2.33	0.0250	2.50		93.2	70-130			
2.48		2.50		99.0	70-130			
2.48	0.0250	2.50		99.4	70-130			
2.70	0.0250	2.50		108	70-130			
5.35	0.0500	5.00		107	70-130			
8.05	0.0250	7.50		107	70-130			
0.545		0.500		109	70-130			
0.508		0.500		102	70-130			
0.542		0.500		108	70-130			
			Source:	E305096-2	24	Prepared: 0	5/17/23 Ana	lyzed: 05/17/23
2.41	0.0250	2.50	ND	96.4	48-131			
2.57	0.0250	2.50	ND	103	45-135			
2.57	0.0250	2.50	ND	103	48-130			
2.77	0.0250	2.50	ND	111	43-135			
5.50	0.0500	5.00	ND	110	43-135			
8.27	0.0250	7.50	ND	110	43-135			
0.533		0.500		107	70-130			
0.492		0.500		98.3	70-130			
0.541		0.500		108	70-130			
						Prepared: 0	5/17/23 Anal	lyzed: 05/17/23
			Source:	E305096-2	24	Trepareu. 0.	0/1//20 1 ma	1920a. 05/17/25
2.48	0.0250	2.50	Source:	E305096-2 99.3	48-131	2.94	23	1720a. 03/17/23
2.48 2.62	0.0250	2.50 2.50						<u>1920a: 05/17/25</u>
	0.0250 0.0250 0.0250		ND	99.3	48-131	2.94	23	yzod: 05/1//25
2.62	0.0250	2.50	ND ND	99.3 105	48-131 45-135	2.94 1.98	23 27	yzoa: 00/17/25
2.62 2.64	0.0250 0.0250	2.50 2.50	ND ND ND	99.3 105 106	48-131 45-135 48-130	2.94 1.98 2.82	23 27 24	<u>, 1920a. 00, 17, 20</u>
2.62 2.64 2.88	0.0250 0.0250 0.0250	2.50 2.50 2.50	ND ND ND ND	99.3 105 106 115	48-131 45-135 48-130 43-135	2.94 1.98 2.82 3.91	23 27 24 27	<u>, , , , , , , , , , , , , , , , , , , </u>
2.62 2.64 2.88 5.73 8.61	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00 7.50	ND ND ND ND	99.3 105 106 115 115 115	48-131 45-135 48-130 43-135 43-135 43-135	2.94 1.98 2.82 3.91 4.05	23 27 24 27 27	
2.62 2.64 2.88 5.73	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00	ND ND ND ND	99.3 105 106 115 115	48-131 45-135 48-130 43-135 43-135	2.94 1.98 2.82 3.91 4.05	23 27 24 27 27	
-	Result mg/kg ND ND ND ND ND 0.530 0.490 0.533 2.33 2.48 2.48 2.48 2.48 2.70 5.35 8.05 0.545 0.545 0.545 0.545 0.542 2.41 2.57 2.57 2.57 2.57 2.57 2.57 2.57 2.57	Project Name: Project Number: Project Manager: Volatile Organic Result mg/kg Reporting Limit mg/kg ND 0.0250 0.533 0.0250 0.533 0.0250 0.533 0.0250 2.48 0.0250 2.70 0.0250 0.535 0.0500 8.05 0.0250 0.545 0.508 0.542 0.0250 2.57 0.0250 2.57 0.0250 2.57 0.0250 2.57 0.0250 2.57 0.0250 2.50 0.500 8	Project Name: Fe Project Number: 01 Project Manager: As Volatile Organic Comport Result Reporting Spike mg/kg mg/kg mg/kg ND 0.0250 ND 0.0250	Project Name: Federal G Gas C Project Number: 01058-0007 Project Manager: Ashley Gioveng Volatile Organic Compounds by EI Result Spike Source mg/kg mg/kg mg/kg mg/kg ND 0.0250 mg/kg mg/kg ND 0.0250 0.333 0.500 0.490 0.500 0.490 0.500 0.490 0.500 0.533 0.500	Project Number: D1058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 82601 Result Reporting Spike Source Result mg/kg mg/kg mg/kg % ND 0.0250 mg/kg mg/kg % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 106 0.530 0.500 107 0.533 0.500 107 0.533 0.500 107 0.533 0.500 107 0.533 0.500 107 0.533 0.500 107 0.533 0.500 107 0.535 0.500 107 0.535 0.500 107 0.535 0.500 107 0.535 0.500 107 0.535 0.500 107 0.535 0.500 107	ND 0.0250 Sprike Source Rec Limits MD 0.0250 ND Rec Limits Rec No ND 0.0250 ND 0.0250 ND 0.0250 % % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 % % 0.0330 0.500 98.0 70-130 70-130 0.533 0.0250 99.0 70-130 0.533 0.500 99.4 70-130 2.48 0.0250 99.4 70-130 2.48 0.0250 7.50 99.4 70-130 2.48 0.0250 7.50 107 70-130 0.542 0.500 107 70-130 70-130 0.542 0.500 107 70-130 70-130 0.542 0.500 107 70-130 70-130	ND 0.0250 NB Rec Limits Reparated RPD ND 0.0250 9% <	Project Name: Federal G Gas Com 1 Project Namber: 01058-0007 Project Manager: Ashley Giovengo 5/ Volatile Organic Compounds by EPA 8260B Rec Rec Res RPD Limit Level Result Rec Strike RPD Limit RPD Limit <t< td=""></t<>



QC Summary Data

		$\mathbf{t} \in \mathcal{S}$		aly Data	-						
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(Federal G Gas C 01058-0007 Ashley Gioveng					Reported: 5/18/2023 3:30:52PM		
Nonhalogenated Organics by EPA 8015D - GRO									Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2320047-BLK1)							Prepared: 0	5/17/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130					
Surrogate: Toluene-d8	0.533		0.500		107	70-130					
LCS (2320047-BS2)							Prepared: 0	5/17/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	59.8	20.0	50.0		120	70-130					
Surrogate: Bromofluorobenzene	0.553		0.500		111	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130					
Surrogate: Toluene-d8	0.547		0.500		109	70-130					
Matrix Spike (2320047-MS2)				Source:	E305096-2	24	Prepared: 0	5/17/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130					
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130					
Surrogate: Toluene-d8	0.550		0.500		110	70-130					
Matrix Spike Dup (2320047-MSD2)				Source:	E305096-2	24	Prepared: 0	5/17/23 A	Analyzed: 05/17/23		
Gasoline Range Organics (C6-C10)	57.5	20.0	50.0	ND	115	70-130	3.40	20			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130					
Surrogate: Toluene-d8	0.541		0.500		108	70-130					



QC Summary Data

		QC DI		ary Date	L				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	ederal G Gas C 1058-0007 Ashley Gioveng					Reported: 5/18/2023 3:30:52PM
	Nonha	logenated Orga	anics 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
							D 10		1 1.05/17/22
Blank (2320045-BLK1)							Prepared: 0	5/1//23 A	analyzed: 05/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0				50.000			
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			
LCS (2320045-BS1)							Prepared: 0	5/17/23 A	nalyzed: 05/17/23
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	38.5		50.0		77.1	50-200			
Matrix Spike (2320045-MS1)				Source:]	E305097-	01	Prepared: 0	5/17/23 A	nalyzed: 05/17/23
Diesel Range Organics (C10-C28)	3500	25.0	250	3030	189	38-132			M4
Surrogate: n-Nonane	136		50.0		272	50-200			\$5
Matrix Spike Dup (2320045-MSD1)				Source:	E305097-	01	Prepared: 0	5/17/23 A	nalyzed: 05/17/23
Diesel Range Organics (C10-C28)	3210	25.0	250	3030	74.7	38-132	8.53	20	
Surrogate: n-Nonane	118		50.0		235	50-200			S5



QC Summary Data

		•							
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(Federal G Gas C 01058-0007 Ashley Gioveng					Reported: 5/18/2023 3:30:52PM
		Anions	by EPA	300.0/9056A	1				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2320049-BLK1)							Prepared: 0	5/17/23	Analyzed: 05/17/23
Chloride	ND	20.0							
LCS (2320049-BS1)							Prepared: 0	5/17/23	Analyzed: 05/17/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2320049-MS1)				Source:	E305096-2	21	Prepared: 0	5/17/23	Analyzed: 05/17/23
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2320049-MSD1)				Source:	E305096-2	21	Prepared: 0	5/17/23	Analyzed: 05/17/23
Chloride	259	20.0	250	ND	104	80-120	1.54	20	

QC Summary Report Comment:

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



	Demition		
	Project Name:	Federal G Gas Com 1	
Parks Hwy	Project Number:	01058-0007	Reported:
38220	Project Manager:	Ashley Giovengo	05/18/23 15:30
	Parks Hwy	Parks Hwy Project Number:	Parks Hwy Project Number: 01058-0007

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

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.



Release

Received by OCD: 7/26/2023 9:27:22 AM

Clie	nt: Ensolum, LL	С.			- len	Bill To		No. 8	with State	Lab	Use	Only	y	he l			TA		EPA P	rogram
_	ect: Federal G					ntion: Jim Raley		Lab	WO#				lumber		1D	2D	3D	Standard	CWA	SDWA
	ect Manager: A				Contraction of the second	ress: 5315 Buena Vista Dr		EE	505	10	0	105	18-00C	57	X					
	ress: 3122 Nati					State, Zip: Carlsbad NM, 882	20	_			An	nalys	is and M	ethod	4					RCRA
	, State, Zip: Car		,88220			ne: (575)689-7597		-	hd (Sec. 1		
	ne: 575-988-00				Ema	il: jim.raley@dvn.com			ORC			-	21						State	
	iil: agiovengo@	ensolum.	com						RO/	51	0 0		0.0		WN		X	NM CC	D UT AZ	TX
Rep	ort due by:					A CONTRACTOR OF A CONTRACTOR O			0/0	y 80.	826	601	e 30					×		
	pled Date Sampled	d Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
15	:09 5/15/2023	³ Soil	1 Jar			FS27 - 21''	1								x				16	
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Ad	itional Instruct	ions: Ple	ase CC: c	burton@ensolu	im.com.	agiovengo@ensolum.com, jii	n.ralev@dv	vn.co	m	_		1	_	-		-		_		
				city of this sample. I a ay be grounds for leg		at tampering with or intentionally mislab Sampled by:	elling the samp	ole loca	tion,									lived on ice the da is than 6 °C on sul		led or
Reli	quisted by: (Signa	ture)	Date	1. 1-0	40am	Received by: (Signature)	S-16	33	Time	40	R	ecei	ved on i	ce:		b Us / N	e Onl	l anner (
Reli	quished by: (Signat	turg)	Dat	-16-23 Time	015	Received by: (Signature)	Date 5.16	.23	Time	0	T	1			T2			ТЗ		
	quished by: (Signat	ture	Dat		han	Received by: (Signature)	Date		Time		-	VGI	Temp °C	.,						
Sam	le Matrix: S - Soil, Sd				100	miggi k i ke	Containe	_	_		-		and the second		ergla	SS V	VOA			
-					less other	arrangements are made. Hazardou		_				_		_				report for the	analysis of t	he above
						this COC. The liability of the laborate														
												-						vir		

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	Ensolum, LLC	ate Received:	05/17/23	07:00	Work Order ID:	E305100
Phone:	(575) 988-0055 E	ate Logged In:	05/16/23	17:07	Logged In By:	Caitlin Mars
mail:	a.giovengo@ensolum.com E	ue Date:	05/17/23	17:00 (0 day TAT)		
<u>Chain of</u>	Custody (COC)					
. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
. Was th	e COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
ample '	<u> Turn Around Time (TAT)</u>					
. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (
	sample cooler received?		Yes			
If yes,	was cooler received in good condition?		Yes			
. Was th	e sample(s) received intact, i.e., not broken?		Yes			
). Were	custody/security seals present?		No			
. If yes	s, were custody/security seals intact?		NA			
. Was tl	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
3. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4°</u>	<u>C</u>			
ample	<u>Container</u>					
	queous VOC samples present?		No			
. Are V	VOC samples collected in VOA Vials?		NA			
. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
. Was a	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?		NA Yes			
7. Was a 3. Are r	· · · ·	s collected?				
7. Was : 8. Are r 9. Is the ield La	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u>		Yes			
7. Was a 8. Are r 9. Is the ⁷ ield La 0. Were	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform		Yes Yes			
7. Was : 3. Are r 9. Is the ield La). Were S	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform sample ID?		Yes Yes Yes			
7. Was : 8. Are r 9. Is the ⁷ ield La 0. Were S	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform		Yes Yes Yes Yes			
7. Was : 8. Are r 9. Is the <u>`ield La</u> 0. Were S I C	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name?		Yes Yes Yes			
7. Was a 8. Are r 9. Is the ield La 0. Were S I ((a mple]	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform sample ID? Date/Time Collected?	nation:	Yes Yes Yes Yes			
7. Was a 3. Are r 9. Is the ield La 0. Were S E C ample 1. Does	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name? Preservation	nation:	Yes Yes Yes No			
7. Was a 8. Are r 9. Is the ield La 1. Were S C ample 1 1. Does 2. Are s	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were pres	nation: erved?	Yes Yes Yes No No			
7. Was a 3. Are r 0. Is the ield La 1. Were 2. Are s 4. Is lab	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were press sample(s) correctly preserved?	nation: erved?	Yes Yes Yes No No NA			
7. Was a 8. Are r 9. Is the ield La 1. Were 1. Does 2. Are s 4. Is lab Iultiph	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containers bel field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met	nation: erved? als?	Yes Yes Yes No No NA			
7. Was : 3. Are r 9. Is the ield La (). Were (). Were (). Were (). Were (). Were (). Were (). Coss (). Are s 1. Is lab (). Is lab (). Does (). Does	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containers bel field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix	nation: erved? als? ?	Yes Yes Yes No No NA No			
Y. Was a . Are r . Is the eld La . Were S . Were S . Does . Are s . Are s . Are s . Is lab ultiph . Does Y. If yes	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase	nation: erved? als? ?	Yes Yes Yes No No No No			
Y. Was a . Are r . Is the eld La . Were S . Were S . Does . Are s . Are s . Are s . Is lab ultiph . Does . If yes	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containers bel field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase s, does the COC specify which phase(s) is to be analyzed	nation: erved? als? 2 2d?	Yes Yes Yes No No No No			

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Fed

Federal G Gas Com 1

Work Order: E305174

Job Number: 01058-0007

Received: 5/26/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/1/23

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: 6/1/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Federal G Gas Com 1 Workorder: E305174 Date Received: 5/26/2023 8:30:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/26/2023 8:30:00AM, under the Project Name: Federal G Gas Com 1.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 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 reguarding 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

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v		Sample Sum	mary		0
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	Federal G Gas Com 01058-0007	1	Reported:
Artesia NM, 88210		Project Manager:	Ashley Giovengo		06/01/23 13:58
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS27-23'	E305174-01A	Soil	05/25/23	05/26/23	Glass Jar, 2 oz.



	5	ample D	ata			
Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name Project Numb	er: 0103	eral G Gas C 58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovenge	0		6/1/2023 1:58:34PM
		FS27-23'				
		E305174-01				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	analyst: SL		Batch: 2321090
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
p-Xylene	ND	0.0250	1	05/26/23	05/27/23	
o,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/26/23	05/27/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	05/26/23	05/27/23	
Surrogate: Toluene-d8		107 %	70-130	05/26/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	analyst: SL		Batch: 2321090
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/26/23	05/27/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	05/26/23	05/27/23	
Surrogate: Toluene-d8		107 %	70-130	05/26/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	analyst: JL		Batch: 2322016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	06/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	06/01/23	
Surrogate: n-Nonane		95.0 %	50-200	05/30/23	06/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2322003
Chloride	20.5	20.0	1	05/30/23	05/30/23	

Sample Data



QC Summary Data

	-		uj Dat	и				
	Project Name:			Com 1				Reported:
	Project Number:	01	1058-0007					
	Project Manager:	А	shley Gioveng	go				5/1/2023 1:58:34PM
	Volatile Organic	3	Analyst: SL					
	Reporting	Spike	Source		Rec		RPD	
Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0:	5/26/23 An	alyzed: 05/27/23
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
0.526		0.500		105	70-130			
0.481		0.500		96.2	70-130			
0.528		0.500		106	70-130			
						Prepared: 0	5/26/23 An	alyzed: 05/27/23
2.59	0.0250	2.50		104	70-130			
2.67	0.0250	2.50		107	70-130			
2.70	0.0250	2.50		108	70-130			
2.89	0.0250	2.50		116	70-130			
5.66	0.0500	5.00		113	70-130			
8.55	0.0250	7.50		114	70-130			
0.549		0.500		110	70-130			
0 494		0.500		98.8	70-130			
0.543		0.500		109	70-130			
			Source:	E305175-0	01	Prepared: 0	5/26/23 An	alyzed: 05/27/23
2.54	0.0250	2.50	ND	102	48-131			
2.58		2.50	ND	103	45-135			
2.61	0.0250	2.50	ND	104	48-130			
2.84	0.0250	2.50	ND	113	43-135			
5.64	0.0500	5.00	ND	113	43-135			
8.47	0.0250	7.50	ND	113	43-135			
0.560		0.500		112	70-130			
0.503		0.500		101	70-130			
0.531		0.500		106	70-130			
			Source:	E305175-0	01	Prepared: 0	5/26/23 An	alyzed: 05/27/23
2.46	0.0250	2.50	ND	98.4	48-131	3.22	23	
2.58	0.0250	2.50	ND	103	45-135	0.349	27	
2.57	0.0250	2.50	ND	103	48-130	1.54	24	
		2.50	ND	113	43-135	0.0353	27	
2.83	0.0250	2.50	11D					
2.83 5.54	0.0250 0.0500	5.00	ND	111	43-135	1.72	27	
5.54	0.0500	5.00	ND	111	43-135	1.72	27	
5.54 8.38	0.0500	5.00 7.50	ND	111 112	43-135 43-135	1.72	27	
	Result mg/kg ND ND ND ND ND ND ND 0.526 0.481 0.528 2.59 2.67 2.70 2.89 5.66 8.55 0.549 0.494 0.543 2.54 2.58 2.61 2.54 2.58 2.61 2.84 5.64 8.47 0.560 0.503 0.531	L Project Name: Project Number: Project Manager: Volatile Organic Result mg/kg Reporting Limit mg/kg ND 0.0250 0.526 0.481 0.528 0.0250 2.67 0.0250 2.67 0.0250 2.66 0.0500 8.55 0.0250 2.66 0.0500 8.55 0.0250 2.54 0.0250 2.54 0.0250 2.64 0.0250 2.64 0.0500 8.47 0.0250 0.530 0.531 0.531 0.531 <td>Project Name: Fe Project Number: 01 Project Manager: A Volatile Organic Compo Result Reporting mg/kg Spike Level mg/kg ND 0.0250 0.528 0.500 0.529 2.50 2.67 0.0250 2.50 2.70 0.0250 2.50 2.89 0.0250 7.50 0.549 0.500 0.500 0.549 0.500 2.50 2.54 0.0250 2.50</td> <td>Project Name: Federal G Gas O Project Number: 01058-0007 Project Manager: Ashley Gioveng Volatile Organic Compounds by EI Result Reporting Spike Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ng/kg mg/kg ND 0.0250 nD 0.0250 0.526 0.500 nD 0.0250 0.527 0.0250 2.50 10 0.528 0.0250 2.50 10 2.59 0.0250 2.50 10 0.528 0.0250 2.50 10 0.549 0.0500 5.00 10 0.549 0.500 10</td> <td>Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EV-X 82601 Result Reporting Limit Spike Level Source Result Recorrection ND 0.0250 mg/kg mg/kg % ND 0.0250 mg/kg 105 ND 0.0250 105 0.526 0.500 106 0.526 0.500 106 0.526 0.500 106 0.526 2.50 107 0.527 2.50 104 2.67 0.0250 2.50 0.528 0.0250 106 5.66 0.0500 107 0.549 0.500 108 0.543</td> <td>Project Name: Project Number: Federal G Gas Com 1 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike Level Source Result mg/kg Rec % Rec Limits ND 0.0250 0.0250 0.0250 0.0250 0.0250 ND 0.0250 0.0250 0.06 0.06 70-130 0.526 0.500 106 70-130 0.528 0.500 106 70-130 0.528 0.500 106 70-130 2.59 0.0250 104 70-130 2.67 0.0250 2.50 104 70-130 2.67 0.0250 2.50 107 70-130 2.59 0.0250 2.50 107 70-130 2.64 0.0250 2.50 107 70-130 2.59 0.0250 2.50 108 70-130 2.59 0.0250 2.50 108 70-130</td> <td>ND 0.0250 Spike Source Rec Lead Repared: 0.0 ND 0.0250 0.000 ND % % % MD 0.0250 ND 0.0250 ND % % % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250<td>Project Name: Project Name: Project Namager: Federal G Gas Com 1 01058-0007 Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike mg/kg Source Result mg/kg Rec mg/kg Rec Mg/kg Rep Mg/kg RPD Mg/kg Limit Mg/kg ND 0.0250 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 0.0050 106 70-130 Prepared: 05/26/23 An 0.481 0.500 96.2 70-130 Prepared: 05/26/23 An 2.59 0.0250 104 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 107 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 104 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 116 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 110</td></td>	Project Name: Fe Project Number: 01 Project Manager: A Volatile Organic Compo Result Reporting mg/kg Spike Level mg/kg ND 0.0250 0.528 0.500 0.529 2.50 2.67 0.0250 2.50 2.70 0.0250 2.50 2.89 0.0250 7.50 0.549 0.500 0.500 0.549 0.500 2.50 2.54 0.0250 2.50	Project Name: Federal G Gas O Project Number: 01058-0007 Project Manager: Ashley Gioveng Volatile Organic Compounds by EI Result Reporting Spike Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ng/kg mg/kg ND 0.0250 nD 0.0250 0.526 0.500 nD 0.0250 0.527 0.0250 2.50 10 0.528 0.0250 2.50 10 2.59 0.0250 2.50 10 0.528 0.0250 2.50 10 0.549 0.0500 5.00 10 0.549 0.500 10	Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EV-X 82601 Result Reporting Limit Spike Level Source Result Recorrection ND 0.0250 mg/kg mg/kg % ND 0.0250 mg/kg 105 ND 0.0250 105 0.526 0.500 106 0.526 0.500 106 0.526 0.500 106 0.526 2.50 107 0.527 2.50 104 2.67 0.0250 2.50 0.528 0.0250 106 5.66 0.0500 107 0.549 0.500 108 0.543	Project Name: Project Number: Federal G Gas Com 1 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike Level Source Result mg/kg Rec % Rec Limits ND 0.0250 0.0250 0.0250 0.0250 0.0250 ND 0.0250 0.0250 0.06 0.06 70-130 0.526 0.500 106 70-130 0.528 0.500 106 70-130 0.528 0.500 106 70-130 2.59 0.0250 104 70-130 2.67 0.0250 2.50 104 70-130 2.67 0.0250 2.50 107 70-130 2.59 0.0250 2.50 107 70-130 2.64 0.0250 2.50 107 70-130 2.59 0.0250 2.50 108 70-130 2.59 0.0250 2.50 108 70-130	ND 0.0250 Spike Source Rec Lead Repared: 0.0 ND 0.0250 0.000 ND % % % MD 0.0250 ND 0.0250 ND % % % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 <td>Project Name: Project Name: Project Namager: Federal G Gas Com 1 01058-0007 Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike mg/kg Source Result mg/kg Rec mg/kg Rec Mg/kg Rep Mg/kg RPD Mg/kg Limit Mg/kg ND 0.0250 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 0.0050 106 70-130 Prepared: 05/26/23 An 0.481 0.500 96.2 70-130 Prepared: 05/26/23 An 2.59 0.0250 104 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 107 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 104 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 116 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 110</td>	Project Name: Project Name: Project Namager: Federal G Gas Com 1 01058-0007 Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike mg/kg Source Result mg/kg Rec mg/kg Rec Mg/kg Rep Mg/kg RPD Mg/kg Limit Mg/kg ND 0.0250 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 0.0050 106 70-130 Prepared: 05/26/23 An 0.481 0.500 96.2 70-130 Prepared: 05/26/23 An 2.59 0.0250 104 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 107 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 104 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 116 70-130 Prepared: 05/26/23 An 2.59 0.0250 2.50 110



QC Summary Data

		QC D	u1111116	iny Data	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	ederal G Gas (1058-0007 shley Gioveng					Reported: 6/1/2023 1:58:34PM
	N	onhalogenated O	rganics	by EPA 80	Analyst: SL				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321090-BLK1)							Prepared: 0	5/26/23 A	Analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			
LCS (2321090-BS2)							Prepared: 0	5/26/23 A	Analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike (2321090-MS2)				Source:	E305175-0	1	Prepared: 0	5/26/23 A	Analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	88.9	20.0	50.0	ND	178	70-130			M6
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			
Matrix Spike Dup (2321090-MSD2)				Source:	E305175-0	1	Prepared: 0	5/26/23 A	Analyzed: 05/30/23
Gasoline Range Organics (C6-C10)	80.4	20.0	50.0	ND	161	70-130	9.93	20	M6
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

		QU N	umm	ary Data	•				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	(Federal G Gas C 01058-0007 Ashley Gioveng					Reported: 6/1/2023 1:58:34PM
Artesia IVII, 00210		Tojeet Manager.		Asiney Gloveng	0				0.172023 1.00.5 11 11
	Nonha	logenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2322016-BLK1)							Prepared: 0	5/30/23 A	Analyzed: 05/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			
LCS (2322016-BS1)							Prepared: 0	5/30/23 A	Analyzed: 05/31/23
Diesel Range Organics (C10-C28)	242	25.0	250		97.0	38-132			
Surrogate: n-Nonane	43.8		50.0		87.7	50-200			
Matrix Spike (2322016-MS1)				Source:	E305190-	21	Prepared: 0	5/30/23 A	Analyzed: 05/31/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			
Matrix Spike Dup (2322016-MSD1)				Source:	E305190-	21	Prepared: 0	5/30/23 A	Analyzed: 05/31/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.4	38-132	3.54	20	
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			



QC Summary Data

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Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Federal G Gas ()1058-0007	Com 1				Reported:
Artesia NM, 88210		Project Manager		Ashley Gioveng	go				6/1/2023 1:58:34PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2322003-BLK1)							Prepared: 0	5/30/23 A	Analyzed: 05/30/23
Chloride	ND	20.0							
LCS (2322003-BS1)							Prepared: 0	5/30/23 A	Analyzed: 05/30/23
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2322003-MS1)				Source:	E305160-	01	Prepared: 0	5/30/23 A	Analyzed: 05/30/23
Chloride	314	20.0	250	56.0	103	80-120			
Matrix Spike Dup (2322003-MSD1)				Source:	E305160-	01	Prepared: 0	5/30/23 A	Analyzed: 05/30/23
Chloride	311	20.0	250	56.0	102	80-120	0.719	20	

QC Summary Report Comment:

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



	Demitions		
Devon Energy - Carlsbad	Project Name:	Federal G Gas Com 1	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/01/23 13:58

M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.

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.



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Projec	t Information

Released to Imaging: 8/17/2023 9:01:57 AM

Client:	Devor		eray		Bill To,	_			La	b Us	e On	ly	100			T	AT	EPA P	rogram
	Federa	160	has c	om 1	Attention: Sim bally Address: 5315 Byenav	ET. D	Lab	WO#	in u		Job N		ber	10) 2D	3D	Standard	CWA	SDWA
				TKS HUY	City, State, Zip(av15bard, N	17 88	120	دير		•			nd Meth	nod			~		RCRA
	e, Zip (ar 575-9			88220	Phone: 575-689-75								1					Chaba	
				im com	Email: im. raleyad	VD-COP	8015	8015	Ŧ	~		0.0	CN				NM CO	State	TX
Report d	ue by:	2				1	DRO by	ORO by	oy 802	y 8260	s 6010	de 300	DOC				X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	66					Remarks	
9:21	05/75/2	35	ljar	F527.	-23'	1							X						
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Addition	al Instructio		im.	raleya	e please cc cu	burto.	7 9	no	1 4	51	ov-e	~	50 a	Ser	150	un	· com	n and	1
		validity and	authenticity	of this sample. I/am awa be grounds for legal actic	re that tampering with or intentionally mislabelli	ng the sample lo	ocation	,			and the second second						ceived on ice the day 6 °C on subsequent d		ed or received
JA.	ed by: (Signatur	£	Date 05	25-123 19:2	S Received by: (Signature)	Date 5.25_		1.00	25		Rece	ived	on ice	: (Lab L	lse On I	ly		
Ma	d by: (Signatur	34	Date	25-23 1915	Received by: (Signature)	S.US	.23				<u>T1</u>			<u>. 12</u>			<u>T3</u>		
Relinquish	ed by: (Signatur		S	·26.23 010	Received by (Signature)	- 5.7.6	73	Time S.	30)	AVG	Tem	p°C	4					
Sample Mat	rix: S - Soil, Sd - So		lge, A - Aque	ous, O - Other		Containe													
					other arrangements are made. Hazardous s								t the clie	ent exp	ense.	The re	port for the anal	ysis of the a	bove

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad	Date Received:	05/26/23	08:30	Work Order ID:	E305174
Phone:	(505) 382-1211	Date Logged In:	05/26/23	09:37	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	06/02/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does th	e sample ID match the COC?		Yes			
2. Does th	e number of samples per sampling site location mat	ch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		Yes		Commen	ts/Resolution
Sample T	<u>urn Around Time (TAT)</u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	Cooler					
7. Was a s	ample cooler received?		Yes			
8. If yes, v	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were d	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes			
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>			
Sample C	Container					
	queous VOC samples present?		No			
15. Are V	OC 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 no	on-VOC samples collected in the correct containers?	I Contraction of the second	Yes			
19. Is the a	appropriate volume/weight or number of sample contain	ers collected?	Yes			
Field Lab	<u>el</u>					
20. Were	field sample labels filled out with the minimum info	rmation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	L		
	ollectors name?		Yes			
	reservation	acamiad?	▶ ⊺_			
	the COC or field labels indicate the samples were pr unple(s) correctly preserved?	eserveu?	No NA			
	filteration required and/or requested for dissolved m	etale?	NA Yes			
		0.013:	res			
	se Sample Matrix	0				
	the sample have more than one phase, i.e., multiphas		No			
27. It yes,	does the COC specify which phase(s) is to be analy	zed?	NA			
	act Laboratory					
28 1 = 0	imples required to get sent to a subcontract laborator	v?	No			
	subcontract laboratory specified by the client and if	•				

Date

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





5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Fed

Federal G Gas Com 1

Work Order: E305175

Job Number: 01058-0007

Received: 5/26/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/1/23

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: 6/1/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Federal G Gas Com 1 Workorder: E305175 Date Received: 5/26/2023 8:30:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/26/2023 8:30:00AM, under the Project Name: Federal G Gas Com 1.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Cell: 505-320-4759

ljarboe@envirotech-inc.com

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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·		Sample Sum	mary		Ŭ
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	Federal G Gas Com 1 01058-0007]	Reported:
Artesia NM, 88210		Project Manager:	Ashley Giovengo		06/01/23 13:55
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS27-24'	E305175-01A	Soil	05/25/23	05/26/23	Glass Jar, 2 oz.



	56	ample D	ata			
Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Numbe		eral G Gas C 58-0007	om 1		Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo)		6/1/2023 1:55:29PM
		FS27-24'				
		E305175-01				
		Reporting				
Analyte	Result	Limit	Dilut	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	.nalyst: SL		Batch: 2321090
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
p-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
Surrogate: Bromofluorobenzene		111 %	70-130	05/26/23	05/27/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	05/26/23	05/27/23	
Surrogate: Toluene-d8		107 %	70-130	05/26/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: SL		Batch: 2321090
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
Surrogate: Bromofluorobenzene		111 %	70-130	05/26/23	05/27/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	05/26/23	05/27/23	
Surrogate: Toluene-d8		107 %	70-130	05/26/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	.nalyst: JL		Batch: 2322016
Diesel Range Organics (C10-C28)	387	25.0	1	05/30/23	06/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	06/01/23	
Surrogate: n-Nonane		102 %	50-200	05/30/23	06/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: BA		Batch: 2322003
Chloride	50.6	20.0	1	05/30/23	05/30/23	

Sample Data



QC Summary Data

		QC SI							
Devon Energy - Carlsbad		Project Name:		deral G Gas (Com 1				Reported:
6488 7 Rivers Hwy		Project Number:	01	058-0007					
Artesia NM, 88210		Project Manager:	As	shley Gioveng	go			e	5/1/2023 1:55:29PM
		Volatile Organic	3	Analyst: SL					
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321090-BLK1)							Prepared: 0:	5/26/23 Ana	alyzed: 05/27/23
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	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			
LCS (2321090-BS1)							Prepared: 0:	5/26/23 Ana	alyzed: 05/27/23
Benzene	2.59	0.0250	2.50		104	70-130			
Ethylbenzene	2.67	0.0250	2.50		107	70-130			
Toluene	2.70	0.0250	2.50		108	70-130			
o-Xylene	2.89	0.0250	2.50		116	70-130			
p,m-Xylene	5.66	0.0500	5.00		113	70-130			
Total Xylenes	8.55	0.0250	7.50		114	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
			0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.494 0.543		0.500		109	70-130			
Matrix Spike (2321090-MS1)				Source	E305175-(01	Prepared: 0	5/26/23 An:	alyzed: 05/27/23
• • •	2.54		2.50				Trepurea. o.	5/20/25 / III	ay200.03/27/23
Benzene	2.54	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.58	0.0250	2.50 2.50	ND ND	103 104	45-135 48-130			
Toluene	2.61 2.84	0.0250	2.50 2.50	ND ND	104	48-130 43-135			
o-Xylene	2.84 5.64	0.0250	2.30 5.00	ND	113	43-135			
p,m-Xylene Total Xylenes	8.47	0.0500 0.0250	7.50	ND	113	43-135			
		0.0230	0.500	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.560								
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.503 0.531		0.500 0.500		101 106	70-130 70-130			
-	0.331		0.000	a					1 1 0 5 15 - 15 5
Matrix Spike Dup (2321090-MSD1) Benzene	2.46	0.0250	2.50	Source: ND	E305175-0 98.4	48-131	Prepared: 0: 3.22	5/26/23 Ana 23	alyzed: 05/27/23
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135	0.349	23	
Toluene	2.57	0.0250	2.50	ND	103	48-130	1.54	24	
o-Xylene	2.83	0.0250	2.50	ND	113	43-135	0.0353	27	
p,m-Xylene	5.54	0.0500	5.00	ND	115	43-135	1.72	27	
Total Xylenes	8.38	0.0250	7.50	ND	112	43-135	1.15	27	
	0.570	0.0250	0.500		112	70-130			
Surrogate: Bromofluorobenzene									
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

		VC D	uIIIII	ary Data	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Number: Project Manager:	0	ederal G Gas (1058-0007 shley Gioveng					Reported: 6/1/2023 1:55:29PM	
	No	onhalogenated O	rganics	by EPA 80	15D - GR	80			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321090-BLK1)							Prepared: 0	5/26/23 A	analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			
LCS (2321090-BS2)							Prepared: 0	5/26/23 A	analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike (2321090-MS2)				Source:	E305175-0	1	Prepared: 0	5/26/23 A	analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	88.9	20.0	50.0	ND	178	70-130			M6
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			
Matrix Spike Dup (2321090-MSD2)				Source:	E305175-0	1	Prepared: 0	5/26/23 A	analyzed: 05/30/23
Gasoline Range Organics (C6-C10)	80.4	20.0	50.0	ND	161	70-130	9.93	20	M6
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

		QC D	u 111 111	ary Data	4				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	(Federal G Gas C 01058-0007 Ashley Gioveng					Reported: 6/1/2023 1:55:29PM
	Nonha	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	iiig/kg	шукg	mg/kg	iiig/kg	70	70	70	70	Notes
Blank (2322016-BLK1)							Prepared: 0	5/30/23 A	analyzed: 05/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			
LCS (2322016-BS1)							Prepared: 0	5/30/23 A	analyzed: 05/31/23
Diesel Range Organics (C10-C28)	242	25.0	250		97.0	38-132			
Surrogate: n-Nonane	43.8		50.0		87.7	50-200			
Matrix Spike (2322016-MS1)				Source:	E305190-	21	Prepared: 0	5/30/23 A	analyzed: 05/31/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			
Matrix Spike Dup (2322016-MSD1)				Source:	E305190-	21	Prepared: 0	5/30/23 A	analyzed: 05/31/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.4	38-132	3.54	20	
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			



QC Summary Data

		C	-						
Devon Energy - Carlsbad		Project Name:]	Federal G Gas (Com 1				Reported:
6488 7 Rivers Hwy		Project Number:	(01058-0007					-
Artesia NM, 88210		Project Manager	: .	Ashley Gioveng	ço				6/1/2023 1:55:29PM
		Anions	by EPA	300.0/9056	۱.				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2322003-BLK1)							Prepared: 0	5/30/23 A	Analyzed: 05/30/23
Chloride	ND	20.0							
LCS (2322003-BS1)							Prepared: 0	5/30/23 A	Analyzed: 05/30/23
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2322003-MS1)				Source:	E305160-()1	Prepared: 0	5/30/23 A	Analyzed: 05/30/23
Chloride	314	20.0	250	56.0	103	80-120			
Matrix Spike Dup (2322003-MSD1)				Source:	E305160-()1	Prepared: 0	5/30/23 A	Analyzed: 05/30/23
Chloride	311	20.0	250	56.0	102	80-120	0.719	20	

QC Summary Report Comment:

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



Demitions and 10005									
Devon Energy - Carlsbad	Project Name:	Federal G Gas Com 1							
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:						
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/01/23 13:55						

M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.

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.



Project	Information	

Released to Imaging: 8/17/2023 9:01:57 AM

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ddition	al Instruction	ns: Pro	eser	veda	2001	el	Ple	ase	cc cl	pur	tor	10) (1	ns	olu	im) . (01	n	ar	d	ag	ioven	500	enso
field samp	oler), attest to the	validity and	authenticity	of this samp	e. I am awa	re that t	ampering wit	h or intentiona	Ily mislabelling	g the sa	mple loc	ation,	-		1	Sample	s requir	ring ther	mal pre	ervation	n must b	e receive	ed on ice the day	they are sample	ed or received
e or time	of collection is co	opsidered fra	ud and may l	be grounds fo	or legal actio	n.	5	ampled by:			_	_	_			packed	in ice a	t an avg	temp al	ove 0 b	ut less th	nan 6 °C i	on subsequent da	iys.	
linguishe	ed by: (Signatur	e)	Date	nelm	Time	200		: (Signature)	e.	Date	25:	22	Time	25		1.00		1.			Use	Only			
linnink	N	V.	DSI	25/73	14:2			elete		J	2),	~1	UN(Rece	ived	on ic	e:	\mathcal{O}'	N				
A C	ed by: (Signatur		Date	5-23	1915	5	HIG.	: (Signature) MUS		L.	257	23	10	20		т1				-7			тэ		
elinquish	ed by: (Signatur	P) (DA	Date	1300	Time		Refeived by	(Signature)	Ø	Date	~	1	Time	J		11	11400		<u></u>	2			<u>T3</u>		
ANG	J mus	00		26-23		00/	ait	L 11	han	5	26k	23	8:	30		AVG	Tem	p°C_	9						
ample Matr	ix: S - Soil, Sd - So	olid, Sg - Slud				- 0		/		Con	tainer	Type:	g-g	lass, p	p - po	oly/pla	astic,	ag - a	mber	glass,	v - VC	DA			
	oles are discard									mples	will be r	return	ed to	client	t or dis	spose	d of a	t the c	lient e	xpense	e. The	repor	t for the anal	ysis of the a	bove
imples is a	applicable only	to those sa	mples recei	ved by the	laboratory	with thi	is COC. The l	iability of the	laboratory i	s limite	d to the	e amo	unt p	aid for	r on t	he rep	ort.			_					
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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad Da	ate Received:	05/26/23	08:30	Work Order ID:	E305175
Phone:	(505) 382-1211 Da	ate Logged In:	05/26/23	09:39	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com D	ue Date:	06/02/23	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comme	nts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re		Yes			
12 Ifma	minutes of sampling	mmomotumos 40	C			
	visible ice, record the temperature. Actual sample ter	nperature. <u>4</u>	<u>c</u>			
	<u>Container</u>		N			
	aqueous VOC samples present?		No NA			
	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)?		NA			
	· · · · ·		NA			
	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers?	collected?	Yes			
Field La		conceteur.	105			
	e field sample labels filled out with the minimum inform	ation				
	Sample ID?	ation	Yes			
	Date/Time Collected?		Yes			
(Collectors name?		Yes			
-	Preservation					
	s the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved?		NA			
24. Is lal	b filteration required and/or requested for dissolved meta	als?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
27. If ye	s, does the COC specify which phase(s) is to be analyzed	d?	NA			
Subcont	tract Laboratory_					
28. Are	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so		NA	Subcontract Lab: NA		
<u>Client</u>]	Instruction					

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Fed

Federal G Gas Com 1

Work Order: E306117

Job Number: 01058-0007

Received: 6/15/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/20/23

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: 6/20/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Federal G Gas Com 1 Workorder: E306117 Date Received: 6/15/2023 7:45:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/15/2023 7:45:00AM, under the Project Name: Federal G Gas Com 1.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 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 reguarding 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

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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eceived by OCD: 7/26/2023 9:27:22 AM			Page 4	69 of 521
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	Sample Sum	mary		
Devon Energy - Carlsbad	Project Name:	Federal G Gas Com 1	Dementeda	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/20/23 16:54	

Artesia NM, 88210		Project Manager:	Ashley Giovengo		06/20/23 16:54
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS18 - 4'	E306117-01A	Soil	06/13/23	06/15/23	Glass Jar, 2 oz.
FS19 - 6'	E306117-02A	Soil	06/13/23	06/15/23	Glass Jar, 2 oz.
FS20 - 3'	E306117-03A	Soil	06/13/23	06/15/23	Glass Jar, 2 oz.



	5	ample D	ลเล			
Devon Energy - Carlsbad	Project Name:	Fede	eral G Gas Com	1		
6488 7 Rivers Hwy	Project Numb	er: 0103	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			6/20/2023 4:54:33PM
		FS18 - 4'				
		E306117-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2324042
Benzene	ND	0.0250	1	06/15/23	06/15/23	
Ethylbenzene	ND	0.0250	1	06/15/23	06/15/23	
Toluene	ND	0.0250	1	06/15/23	06/15/23	
p-Xylene	ND	0.0250	1	06/15/23	06/15/23	
o,m-Xylene	ND	0.0500	1	06/15/23	06/15/23	
Total Xylenes	ND	0.0250	1	06/15/23	06/15/23	
Surrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	06/15/23	06/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2324042
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/23	06/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	06/15/23	06/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2324043
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/23	06/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/23	06/16/23	
Surrogate: n-Nonane		82.9 %	50-200	06/15/23	06/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2325006
Chloride	235	20.0	1	06/19/23	06/19/23	



	5	ample D	ata				
Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name Project Numb	ber: 010	eral G Gas C 58-0007				Reported:
Artesia NM, 88210	Project Mana	ger: Ash	ley Giovengo	0			6/20/2023 4:54:33PM
		FS19 - 6'					
		E306117-02					
		Reporting					
Analyte	Result	Limit	Diluti	ion Pre	pared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	А	Analyst: SL			Batch: 2324042
Benzene	ND	0.0250	1	06/	15/23	06/15/23	
Ethylbenzene	ND	0.0250	1	06/	15/23	06/15/23	
Toluene	ND	0.0250	1	06/	15/23	06/15/23	
o-Xylene	ND	0.0250	1	06/	15/23	06/15/23	
o,m-Xylene	ND	0.0500	1	06/	15/23	06/15/23	
Total Xylenes	ND	0.0250	1	06/	15/23	06/15/23	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	06/	15/23	06/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: SL			Batch: 2324042
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/	15/23	06/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	06/	15/23	06/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	Analyst: KM			Batch: 2324043
Diesel Range Organics (C10-C28)	ND	25.0	1	06/	15/23	06/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/	15/23	06/16/23	
Surrogate: n-Nonane		77.5 %	50-200	06/	15/23	06/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	Analyst: BA			Batch: 2325006
Chloride	145	20.0	1	06/	19/23	06/19/23	



	a	ample D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name Project Num Project Mana	ber: 010	eral G Gas C 58-0007 ley Giovengo			Reported: 6/20/2023 4:54:33PM
		FS20 - 3'				
		E306117-03				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2324042
Benzene	ND	0.0250	1	06/15/23	06/15/23	
thylbenzene	ND	0.0250	1	06/15/23	06/15/23	
oluene	ND	0.0250	1	06/15/23	06/15/23	
-Xylene	ND	0.0250	1	06/15/23	06/15/23	
,m-Xylene	ND	0.0500	1	06/15/23	06/15/23	
otal Xylenes	ND	0.0250	1	06/15/23	06/15/23	
urrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	06/15/23	06/15/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: SL		Batch: 2324042
asoline Range Organics (C6-C10)	ND	20.0	1	06/15/23	06/15/23	
rrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	06/15/23	06/15/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2324043
iesel Range Organics (C10-C28)	ND	25.0	1	06/15/23	06/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	06/15/23	06/16/23	
urrogate: n-Nonane		98.3 %	50-200	06/15/23	06/16/23	
nions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2325006
Chloride	91.7	20.0	1	06/19/23	06/19/23	



QC Summary Data

		QC D	4111110	ii y Dat	u				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	ederal G Gas (1058-0007 shley Gioveng					Reported: 6/20/2023 4:54:33PM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: SL
Australia		Reporting	Spike	Source		Rec		RPD	-
Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2324042-BLK1)							Prepared: 0	6/15/23 A	nalyzed: 06/15/23
Benzene	ND	0.0250					1		
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Fotal Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.31	0.0250	8.00		91.4	70-130			
LCS (2324042-BS1)							Prepared: 0	6/15/23 A	nalyzed: 06/15/23
Benzene	4.84	0.0250	5.00		96.9	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.4	70-130			
Foluene	4.96	0.0250	5.00		99.2	70-130			
p-Xylene	4.92	0.0250	5.00		98.4	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Fotal Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.7	70-130			
Matrix Spike (2324042-MS1)				Source:	E306115-0	02	Prepared: 0	6/15/23 A	nalyzed: 06/15/23
Benzene	5.26	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133			
Foluene	5.39	0.0250	5.00	ND	108	61-130			
p-Xylene	5.35	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Fotal Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.1	70-130			
Matrix Spike Dup (2324042-MSD1)				Source:	E306115-0	02	Prepared: 0	6/15/23 A	analyzed: 06/15/23
Benzene	4.75	0.0250	5.00	ND	95.1	54-133	10.2	20	
Ethylbenzene	4.73	0.0250	5.00	ND	94.5	61-133	9.99	20	
	4.86	0.0250	5.00	ND	97.2	61-130	10.3	20	
Foluene	1.00								
Foluene o-Xylene	4.82	0.0250	5.00	ND	96.3	63-131	10.5	20	
		0.0250 0.0500	5.00 10.0	ND ND	96.3 96.0	63-131 63-131	10.5 9.68	20 20	



QC Summary Data

		$\mathbf{x} \in \mathbf{v}$		ary Dau	•				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	0	Federal G Gas C 1058-0007					Reported:
Artesia NM, 88210		Project Manager:	A	Ashley Gioveng	0				6/20/2023 4:54:33PM
	Noi	nhalogenated C	Organics	by EPA 801	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2324042-BLK1)							Prepared: 0	6/15/23 A	Analyzed: 06/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			
LCS (2324042-BS2)							Prepared: 0	6/15/23 A	Analyzed: 06/15/23
Gasoline Range Organics (C6-C10)	48.6	20.0	50.0		97.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			
Matrix Spike (2324042-MS2)				Source:	E306115-	02	Prepared: 0	6/15/23 A	Analyzed: 06/15/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			
Matrix Spike Dup (2324042-MSD2)				Source:	E306115-	02	Prepared: 0	6/15/23 A	Analyzed: 06/15/23
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	0.534	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			



QC Summary Data

		QU N		ary Date					
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		ederal G Gas (1058-0007	Com 1				Reported:
Artesia NM, 88210		Project Manager:	A	shley Gioveng	go				6/20/2023 4:54:33PM
	Nonha	logenated Org	anics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2324043-BLK1)							Prepared: 0	6/15/23 A	nalyzed: 06/15/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.5	50-200			
LCS (2324043-BS1)							Prepared: 0	6/15/23 A	analyzed: 06/15/23
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	43.4		50.0		86.9	50-200			
Matrix Spike (2324043-MS1)				Source:	E306114-0	05	Prepared: 0	6/15/23 A	analyzed: 06/15/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	37.3		50.0		74.5	50-200			
Matrix Spike Dup (2324043-MSD1)				Source:	E306114-(05	Prepared: 0	6/15/23 A	analyzed: 06/15/23
Diesel Range Organics (C10-C28)	259	25.0	250	ND	103	38-132	2.29	20	
Surrogate: n-Nonane	36.6		50.0		73.3	50-200			



QC Summary Data

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Devon Energy - Carlsbad		Project Name:		Federal G Gas (Com 1				Reported:
6488 7 Rivers Hwy		Project Number:		01058-0007					
Artesia NM, 88210		Project Manager	:	Ashley Gioveng	go				6/20/2023 4:54:33PM
	Anions by EPA 300.0/9056A								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325006-BLK1)							Prepared: 0	6/19/23 A	Analyzed: 06/19/23
Chloride	ND	20.0							
LCS (2325006-BS1)							Prepared: 0	6/19/23 A	Analyzed: 06/19/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2325006-MS1)				Source:	E306116-2	21	Prepared: 0	6/19/23 A	Analyzed: 06/19/23
Chloride	249	20.0	250	ND	99.4	80-120			
Matrix Spike Dup (2325006-MSD1)				Source:	E306116-2	21	Prepared: 0	6/19/23 A	Analyzed: 06/19/23
Chloride	251	20.0	250	ND	100	80-120	0.816	20	

QC Summary Report Comment:

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



Devon Ener	gy - Carlsbad	Project Name:	Federal G Gas Com 1	
6488 7 Rive	ers Hwy	Project Number:	01058-0007	Reported:
Artesia NM	, 88210	Project Manager:	Ashley Giovengo	06/20/23 16:54

- 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.



Project Information

Chain of Custody

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Received by OCD: 7/26/2023 9:27:22 AM

Client:	Devon				1. A.	Bil	Го		40.00	Sectors		hlis	οOn	Veria.	S.A.S.	2.55		т	TAT		EPA Pr	ogram
Project:	Federal	G Ges	ComI		Atte	ntion: JM Ra	leu			WO#		1.17	Job N	lum	ber	1	D 2			ndard	CWA	SDWA
	lanager: A	shley G	vivienqo			ress: 5315 Bu				ble		2			-060					X		
	3122 Na	Honal Pa	arles Hu	<u>y</u>		, State, Zip Corlst		20					Analy	sis ar	nd Met	hod						RCRA
City, Stat	e, Zip (an	Isbad, 1	VM, 882	20	100.00	ne: <u>575-169</u>									NW					的是在分词转	State	
Phone: Email:	o-giovenau	Densolu	m. (6)		Ema	il: j'm raley	egour. con		801	801	_				3					NM CO		TXI
Report d		<u>y çı ()()(u</u>	<u></u>			•			vd O	β	8021	8260	010	8 No	bc				1	X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	•			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BG						Remarks	
0949	6/13/23	5	1	FS18	5-41	_		那							\prec							
1025	6/13/23	5	1		- 6'			2							٢							
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Addition	al Instruction	ns: Psré	esarved or	14. Ce	, agioveryc	ensulum. co	in a jim.	raley @	dur	1, (2)	<i>m</i> ,				<u> </u>							
I, (field sam) date or time	pler), attest to the of collection is co	validity and onsidered fra	authenticity and and may	of this sampl be grounds fo	e. J am aware that r legal action.	tampering with or intent Sampled by	ionally mislabelling 1: Ronn. Ha	the sample lo	cation	,					-					n ice the day t ubsequent day	hey are sample ys.	ed or received
	ed by: (Signature		Date	14/23	Time 1015	Received by: (Signard	re) Uprele	Date 6-14-,	23	Time /(015		Rece	ived	onice	999 (19 31 - 2010)		Use O N	nly 🗧			
	ed by: (Signature		Date		Time	Received by: (Signatu	re) U Mana	Date 6-14		Time			T1			्री				ТЗ: ≲ &	an Farrain An Farrain	
	ed by: (Signature		Date		Time 2400	Received by (Signatu	nan	Date		Time	45		AVG	Tem	ıp°C_	4						
Sample Mat	rix: S - Soil, Sd - So		lge, A - Aque	ous, O - Othe	r			Container	Туре			p - po	oly/pla	astic,	ag - ar	mber	glass,					
						rrangements are made his COC. The liability of									t the cli	ient ex	pense	e. The r	eport fo	or the analy	sis of the a	bove

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	Devon Energy - Carlsbad D	ate Received:	06/15/23 0	07:45	Work Order ID:	E306117
Phone:	(505) 382-1211 D	ate Logged In:	06/15/23 0	18:33	Logged In By:	Caitlin Mars
Email:		ue Date:		7:00 (4 day TAT)		
Chain of	<u>f Custody (COC)</u>					
1. Does t	he sample ID match the COC?		Yes			
2. Does the	he number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample 7</u>	<u> Turn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample ter	nperature: 4°C	7			
	Container	<u> </u>	-			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containers	collected?	Yes			
19. Is the	bel	, concetted.				
19. Is the s Field La						
19. Is the Field Lal 20. Were	bel field sample labels filled out with the minimum inform Sample ID?		Yes			
19. Is the s Field Lal 20. Were S D	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		Yes Yes			
19. Is the Field Lal 20. Were S D C	Field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?					
19. Is the s Field Lal 20. Were S D C Sample F	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation	ation:	Yes Yes			
19. Is the s Field Lat 20. Were S D C Sample H 21. Does	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were press	ation:	Yes Yes No			
19. Is the s Field Lal 20. Were S D C Sample F 21. Does 22. Are sa	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were prese sample(s) correctly preserved?	ation: erved?	Yes Yes No NA			
19. Is the s Field Lal 20. Were S D C Sample F 21. Does 22. Are sa 24. Is lab	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta	ation: erved?	Yes Yes No			
19. Is the s Field Lal 20. Were S D C Sample F 21. Does 22. Are ss 24. Is lab Multipha	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta ase Sample Matrix	ation: erved? als?	Yes Yes No NA No			
19. Is the s Field Lal 20. Were S D C Sample H 21. Does 22. Are sa 24. Is lab Multipha 26. Does	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were prese sample(s) correctly preserved? of filteration required and/or requested for dissolved meta ase Sample Matrix the sample have more than one phase, i.e., multiphase?	ation: prved? als?	Yes Yes No No No			
19. Is the a Field Lal 20. Were S D C Sample H 21. Does 22. Are sa 24. Is lab Multipha 26. Does	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta ase Sample Matrix	ation: prved? als?	Yes Yes No NA No			
19. Is the r Field Lal 20. Were S D C Sample F 21. Does 22. Are sr 24. Is lab Multipha 26. Does 27. If yes	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were prese sample(s) correctly preserved? of filteration required and/or requested for dissolved meta ase Sample Matrix the sample have more than one phase, i.e., multiphase?	ation: prved? als?	Yes Yes No No No			
19. Is the <i>i</i> Field Lat 20. Were S D C Sample F 21. Does 22. Are si 24. Is lab Multipha 26. Does 27. If yes Subcontr 28. Are si	field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta ase Sample Matrix the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyze	ation: erved? dls? d?	Yes Yes No No No			

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Federal G Gas Com 1 Reserve Pit

Work Order: E306129

Job Number: 01058-0007

Received: 6/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/21/23

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: 6/21/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210



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Project Name: Federal G Gas Com 1 Reserve Pit Workorder: E306129 Date Received: 6/16/2023 7:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2023 7:35:00AM, under the Project Name: Federal G Gas Com 1 Reserve Pit.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 Reserve Pit 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 reguarding 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

Field Offices:

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services Office: 505-421-LABS(5227)

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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v		Sample Sum	mary		0
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	Federal G Gas Com 1 01058-0007	l Reserve Pit	Reported:
Artesia NM, 88210		Project Manager:	Ashley Giovengo		06/21/23 17:03
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 4'	E306129-01A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.



	0	ampic D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name Project Numb Project Manag	oer: 010	eral G Gas Com 1 58-0007 ley Giovengo	Reserve Pit		Reported: 6/21/2023 5:03:33PM
		FS01 - 4'				
		E306129-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2324057
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
p-Xylene	ND	0.0250	1	06/16/23	06/17/23	
o,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2324057
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	it: JL		Batch: 2325018
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
Surrogate: n-Nonane		93.0 %	50-200	06/19/23	06/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2325012
Chloride	30.3	20.0	1	06/19/23	06/20/23	



QC Summary Data

Davian Engineery Could-bod		D : ()]	г	Tadamal C.C.	7.0m 1 D	amra Dia			
Devon Energy - Carlsbad		Project Name:		Federal G Gas (Jom I Res	erve Pit			Reported:
6488 7 Rivers Hwy		Project Number:		01058-0007					
Artesia NM, 88210		Project Manager:	A	Ashley Gioveng	go				6/21/2023 5:03:33PM
		Volatile O	rganics	by EPA 802	21B				Analyst: SL
Analyte		Reporting	Spike	Source		Rec		RPD	
,	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2324057-BLK1)							Prepared: 0	6/16/23 A	analyzed: 06/16/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			
LCS (2324057-BS1)							Prepared: 0	6/16/23 A	analyzed: 06/16/23
Benzene	4.88	0.0250	5.00		97.5	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.5	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.95	0.0250	5.00		99.1	70-130			
p,m-Xylene	9.89	0.0500	10.0		98.9	70-130			
Total Xylenes	14.8	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			
Matrix Spike (2324057-MS1)				Source:	E306126-	02	Prepared: 0	6/16/23 A	analyzed: 06/16/23
Benzene	4.41	0.0250	5.00	ND	88.2	54-133			
Ethylbenzene	4.38	0.0250	5.00	ND	87.7	61-133			
Toluene	4.51	0.0250	5.00	ND	90.2	61-130			
p-Xylene	4.51	0.0250	5.00	ND	90.2	63-131			
p,m-Xylene	8.94	0.0500	10.0	ND	89.4	63-131			
Total Xylenes	13.5	0.0250	15.0	ND	89.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			
Matrix Spike Dup (2324057-MSD1)					E306126-		-		analyzed: 06/16/23
Benzene	4.91	0.0250	5.00	ND	98.2	54-133	10.8	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	61-133	11.4	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	11.0	20	
p-Xylene	5.01	0.0250	5.00	ND	100	63-131	10.5	20	
	9.99	0.0500	10.0	ND	99.9	63-131	11.1	20	
p,m-Xylene Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	10.9	20	



QC Summary Data

		QC D	u	ary Data	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Federal G Gas (1058-0007	Com 1 Res	erve Pit			Reported:
Artesia NM, 88210		Project Manager	:: А	Ashley Gioveng	go				6/21/2023 5:03:33PM
	Nor	halogenated (Organics	by EPA 80	15D - Gl	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2324057-BLK1)							Prepared: 0	6/16/23 A	nalyzed: 06/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.2	70-130			
LCS (2324057-BS2)							Prepared: 0	6/16/23 A	nalyzed: 06/16/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			
Matrix Spike (2324057-MS2)				Source:	E306126-	02	Prepared: 0	6/16/23 A	nalyzed: 06/16/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			
Matrix Spike Dup (2324057-MSD2)				Source:	E306126-	02	Prepared: 0	6/16/23 A	nalyzed: 06/16/23
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130	2.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			



QC Summary Data

		QU D	u	ary Data	4				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Federal G Gas C 01058-0007	Com 1 Res	erve Pit			Reported:
Artesia NM, 88210		Project Manager:	:	Ashley Gioveng	0				6/21/2023 5:03:33PM
	Nonha	alogenated Org	anics by	y EPA 8015E) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325018-BLK1)							Prepared: 0	6/19/23 A	analyzed: 06/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	50-200			
LCS (2325018-BS1)							Prepared: 0	6/19/23 A	analyzed: 06/20/23
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			
Matrix Spike (2325018-MS1)				Source:	E306128-	14	Prepared: 0	6/19/23 A	analyzed: 06/20/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			
Matrix Spike Dup (2325018-MSD1)				Source:	E306128-	14	Prepared: 0	6/19/23 A	analyzed: 06/20/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	7.17	20	
Surrogate: n-Nonane	50.2		50.0		100	50-200			



QC Summary Data

		C - · ·	-						
Devon Energy - Carlsbad		Project Name:		Federal G Gas (Com 1 Res	erve Pit			Reported:
6488 7 Rivers Hwy		Project Number:		01058-0007					
Artesia NM, 88210		Project Manager	:	Ashley Gioveng	go				6/21/2023 5:03:33PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325012-BLK1)							Prepared: 0	6/19/23 A	nalyzed: 06/19/23
Chloride	ND	20.0							
LCS (2325012-BS1)							Prepared: 0	6/19/23 A	nalyzed: 06/19/23
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2325012-MS1)				Source:	E306128-0	01	Prepared: 0	6/19/23 A	nalyzed: 06/19/23
Chloride	405	20.0	250	220	74.0	80-120			M2
Matrix Spike Dup (2325012-MSD1)				Source:	E306128-0	01	Prepared: 0	6/19/23 A	nalyzed: 06/19/23
Chloride	376	20.0	250	220	62.6	80-120	7.31	20	M2

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.



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	Deminitions		
Devon Energy - Carlsbad	Project Name:	Federal G Gas Com 1 Reserve Pit	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/21/23 17:03

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

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.



Release Project Information

Received by OCD: 7/26/2023 9:27:22 AM

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	evon Energy					Bill To				ab U	se Or		The second second			-	AT			rogram
	Federal G G			Pit		Attention: Jim Raley		Lab WO)#		Job			1D	2D	3D	Stand	lard	CWA	SDWA
	Manager: Asl				1.1	Address: 5315 Buena Vista Dr		E.304	012	9	005	58-1	2007				×			
	: 3122 Natio					City, State, Zir Carlsbad, NM 8822	0			_	Analy	sis a	nd Metho	d		-		012		RCRA
	te, Zip Carls		88220		14.1	Phone: 575-689-7597		yd C												
	575-988-005					Email: jim.raley@dvn.com		ORC											State	
	giovengo@e	nsolum.c	com					DRO/	21	0	0	0.00		MN		XT	NN	/ CO	UT AZ	TX
Report d	lue by:			-	146			RO/I	y 80	y 82	601	de 3(×	:		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample II	o		Lab Number	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
1035	6/14/2023	S	1			FS01-4'	1							x						
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ddition	al Instructio	ns:																		1
	pler), attest to th e of collection is c					are that tampering with or intentionally mislabe ion. Sampled by: FOAN H	lling the sampl	le location,					iring thermal ed in ice at ar							led or
-	ed by: (Signatu		Date G	15/23	Time 1015	Received by: (Signature))		-23 Time	01	5	Rece	eived	d on ice:			se Or I	nly			
Mici	ed by: (SigAtu	me		523	Time 1715	Received by: (Signature)	Date	- 23 /	13	0	<u>T1</u>			<u>T2</u>			<u>T3</u>			
AND	ed by: (Signatur	y sto	Date	16-23	Time 24	Daithe Main	010	23 Time	1:3	5	AVG	i Ten	np °C	4						
	trix: S - Soil, Sd - S					_		r Type: g ·												
						other arrangements are made. Hazardous with this COC. The liability of the laborato								ient e	xpense	e. The	e report fo	or the ar	halysis of t	he above
	A COLORED TO A COLORED	A 1 48 8 1 1 1 1 1		and the second second							-	3					/i		H	

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad Da	ate Received:	06/16/23	07:35	Work Order ID:	E306129
Phone:	(505) 382-1211 Da	ate Logged In:	06/16/23	09:12	Logged In By:	Caitlin Mars
Email:		le Date:	06/22/23	17:00 (4 day TAT)		
<u>Chain o</u>	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did th	e 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 th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re-		Yes			
13. If no	minutes of sampling visible ice, record the temperature. Actual sample ter		<u>c</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is th	e 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	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	abel					
	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected? Collectors name?		Yes			
	Preservation		Yes			
	s the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved meta	ıls?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
	es, does the COC specify which phase(s) is to be analyzed		NA			
•			11/1			
	tract Laboratory		۱ ۲-			
	samples required to get sent to a subcontract laboratory?		No NA	C-1		
29. was	a subcontract laboratory specified by the client and if so	wil0?	NA	Subcontract Lab: NA		

e

Date

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





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





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Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Federal G Gas Com 1 Reserve Pit

Work Order: E306131

Job Number: 01058-0007

Received: 6/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/21/23

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: 6/21/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210



Page 493 of 521

Project Name: Federal G Gas Com 1 Reserve Pit Workorder: E306131 Date Received: 6/16/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2023 7:30:00AM, under the Project Name: Federal G Gas Com 1 Reserve Pit.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 Reserve Pit 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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v		Sample Sum	mary		8
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	Federal G Gas Com 1 01058-0007	1 Reserve Pit	Reported:
Artesia NM, 88210		Project Manager:	Ashley Giovengo		06/21/23 17:06
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW02 - 0 - 5.5'	E306131-01A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.



	50	imple D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 0103	eral G Gas Com 58-0007 ley Giovengo	l Reserve Pit		Reported: 6/21/2023 5:06:36PM
	SV	W02 - 0 - 5.5	,			
		E306131-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2324057
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
p-Xylene	ND	0.0250	1	06/16/23	06/17/23	
o,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Fotal Xylenes	ND	0.0250	1	06/16/23	06/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2324057
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2325022
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/20/23	
Dil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/20/23	
Surrogate: n-Nonane		75.1 %	50-200	06/20/23	06/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2325025
Chloride	463	20.0	1	06/20/23	06/20/23	



QC Summary Data

				<u> </u>		D'/			
Devon Energy - Carlsbad		Project Name:		Federal G Gas (Com I Res	erve Pit			Reported:
6488 7 Rivers Hwy		Project Number:		1058-0007					
Artesia NM, 88210		Project Manager:	A	Ashley Gioveng	go				6/21/2023 5:06:36PM
		Volatile Or	rganics	by EPA 802	21B				Analyst: SL
Analyte		Reporting	Spike	Source		Rec		RPD	
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2324057-BLK1)							Prepared: 0	6/16/23 A	analyzed: 06/16/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			
LCS (2324057-BS1)							Prepared: 0	6/16/23 A	analyzed: 06/16/23
Benzene	4.88	0.0250	5.00		97.5	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.5	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
p-Xylene	4.95	0.0250	5.00		99.1	70-130			
p,m-Xylene	9.89	0.0500	10.0		98.9	70-130			
Total Xylenes	14.8	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			
Matrix Spike (2324057-MS1)				Source:	E306126-	02	Prepared: 0	6/16/23 A	analyzed: 06/16/23
Benzene	4.41	0.0250	5.00	ND	88.2	54-133			
Ethylbenzene	4.38	0.0250	5.00	ND	87.7	61-133			
Toluene	4.51	0.0250	5.00	ND	90.2	61-130			
o-Xylene	4.51	0.0250	5.00	ND	90.2	63-131			
p,m-Xylene	8.94	0.0500	10.0	ND	89.4	63-131			
Total Xylenes	13.5	0.0250	15.0	ND	89.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			
Matrix Spike Dup (2324057-MSD1)					E306126-		-		analyzed: 06/16/23
Benzene	4.91	0.0250	5.00	ND	98.2	54-133	10.8	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	61-133	11.4	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	11.0	20	
p-Xylene	5.01	0.0250	5.00	ND	100	63-131	10.5	20	
p,m-Xylene	9.99 15.0	0.0500 0.0250	10.0 15.0	ND	99.9	63-131	11.1 10.9	20 20	
Total Xylenes				ND	100	63-131			



QC Summary Data

		$\mathbf{x} \in \mathbf{v}$		ary Dau	-				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	-	Federal G Gas C)1058-0007	Com 1 Res	erve Pit			Reported:
Artesia NM, 88210		Project Manager:	I	Ashley Gioveng	<u>j</u> 0				6/21/2023 5:06:36PM
	Nor	halogenated C	Organics	s by EPA 801	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2324057-BLK1)							Prepared: 0	6/16/23 A	analyzed: 06/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.2	70-130			
LCS (2324057-BS2)							Prepared: 0	6/16/23 A	analyzed: 06/16/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			
Matrix Spike (2324057-MS2)				Source:	E306126-	02	Prepared: 0	6/16/23 A	analyzed: 06/16/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			
Matrix Spike Dup (2324057-MSD2)				Source:	E306126-	02	Prepared: 0	6/16/23 A	analyzed: 06/16/23
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130	2.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			



QC Summary Data

		QC D	u 111111	lary Data	u				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:		Federal G Gas C 01058-0007 Ashley Gioveng		erve Pit			Reported: 6/21/2023 5:06:36PM
	Nonh	alogenated Org		y EPA 8015D) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325022-BLK1)							Prepared: 0	6/20/23 A	Analyzed: 06/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			
LCS (2325022-BS1)							Prepared: 0	6/20/23 A	Analyzed: 06/20/23
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	42.4		50.0		84.8	50-200			
Matrix Spike (2325022-MS1)				Source:	E306121-	04	Prepared: 0	6/20/23 A	Analyzed: 06/20/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	32.1		50.0		64.3	50-200			
Matrix Spike Dup (2325022-MSD1)				Source:	E306121-	04	Prepared: 0	6/20/23 A	Analyzed: 06/20/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.5	38-132	1.51	20	
Surrogate: n-Nonane	38.9		50.0		77.7	50-200			



QC Summary Data

				J					
Devon Energy - Carlsbad		Project Name:		Federal G Gas (Com 1 Res	erve Pit			Reported:
6488 7 Rivers Hwy		Project Number:		01058-0007					
Artesia NM, 88210		Project Manager	:	Ashley Gioveng	go				6/21/2023 5:06:36PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325025-BLK1)							Prepared: 0	6/20/23	Analyzed: 06/20/23
Chloride	ND	20.0							
LCS (2325025-BS1)							Prepared: 0	6/20/23	Analyzed: 06/20/23
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2325025-MS1)				Source:	E306121-	01	Prepared: 0	6/20/23	Analyzed: 06/21/23
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2325025-MSD1)				Source:	E306121-	01	Prepared: 0	6/20/23	Analyzed: 06/21/23
Chloride	263	20.0	250	ND	105	80-120	0.880	20	

QC Summary Report Comment:

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



Devon Energy - Carlsbad	Project Name:	Federal G Gas Com 1 Reserve Pit	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/21/23 17:06

ND	Analyte NOT DETECTED at or ab	ove the reporting limit
1.12	That ye no i beiecheb at or as	ove me reporting mint

- 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.



Rele Project Information

Received by OCD: 7/26/2023 9:27:22 AM

	von Energy				100	Bill To						e On				1	TA				rogram
	ederal G Ga	and the second s		Pit		tention: Jim Raley		Lab	WO#	121	,	Job I	Num	ber	1D	2D	3D	Sta	ndard	CWA	SDW.
	anager: Ash 3122 Natio					ddress: 5315 Buena Vista Dr	20	ES.	00	131		010	58	0007	-				x		DCD
	e, Zip Carlst					ty, State, Zir <u>Carlsbad, NM 882</u> none: 575-689-7597	20	-		-	-	Analy	sis ar	nd Metho		1	1				RCR
	75-988-005		00220			nail: jim.raley@dvn.com			30 b									-		State	
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Time ampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	i.
1040	6/14/2023	S	1			SW02-0-5.5'	1								x						
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e or time c	of collection is c	onsidered fr				that tampering with or intentionally mislat Sampled by: Ronn, 4	pelling the sampl	e locati	ion,			Contraction of the local sectors of the local secto		ring thermal p ed in ice at an						they are samp equent days.	oled or
inquished	d by: (Signatur	re)		15/23	1015	Received by: (Signature)	Date 6-15-		de la compañía de la	015		Rece	ived	on ice:		ab U:	se On I	ily			
Mial	by: (Signatur	izals		5-23	1715	Received by: (Signature)	Date 6-15	.23	Time	13	0	<u>T1</u>			<u>T2</u>	14. M	in the state	1	3		
ANSI	by: (Signatur	Myso	Date	16-23	2400	aith Man	- 0/26	23	7.	30		AVG			Ł						
	x: S - Soil, Sd - So					er arrangements are made. Hazardou	Containe												faath	and the first	haab
						er arrangements are made. Hazardou th this COC. The liability of the laborate									ent ex	pense	e. The	e report	for the a	nalysis of t	ne abov

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad	Date Received:	06/16/23 0	7:30	Work Order ID:	E306131
Phone:	(505) 382-1211 E	Date Logged In:	06/16/23 0	9:15	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	06/22/23 1	7:00 (4 day TAT)		
Chain of	f Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.		Yes		Commen	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4°</u>	<u>C</u>			
Sample (<u>Container</u>					
14. Are a	equeous VOC samples present?		No			
15. Are V	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
18. Are r	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample container	rs collected?	Yes			
<u>Field La</u>	<u>bel</u>					
	field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected? Collectors name?		Yes			
	Preservation		Yes			
	the COC or field labels indicate the samples were pres	erved?	No			
	sample(s) correctly preserved?		NA			
	o filteration required and/or requested for dissolved met	tals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase	9	Na			
	s, does the COC specify which phase(s) is to be analyze		No NA			
-			NA			
Subcont	ract Laboratory	0	3.7			
20 1		1	No			
	amples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s			Subcontract Lab: NA		

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



envirotech Inc.

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Federal G Gas Com 1 Reserve Pit

Work Order: E306146

Job Number: 01058-0007

Received: 6/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/21/23

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: 6/21/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210



Page 505 of 521

Project Name: Federal G Gas Com 1 Reserve Pit Workorder: E306146 Date Received: 6/19/2023 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/19/2023 8:00:00AM, under the Project Name: Federal G Gas Com 1 Reserve Pit.

The analytical test results summarized in this report with the Project Name: Federal G Gas Com 1 Reserve Pit 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary											
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	Federal G Gas Com 1 Reserve Pit 01058-0007	Reported:							
Artesia NM, 88210											
Client Sample ID	Lab Sample ID	Matrix	Sampled Received	Container							
SW01-0-5.5'	E306146-01A	Soil	06/15/23 06/19/23	Glass Jar, 4 oz.							



	D.	ampic D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Numbe	er: 0105	eral G Gas Com 1 58-0007	Reserve Pit		Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			6/21/2023 5:13:40PM
	S	SW01-0-5.5'				
		E306146-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2325010
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Foluene	ND	0.0250	1	06/19/23	06/20/23	
p-Xylene	ND	0.0250	1	06/19/23	06/20/23	
o,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Fotal Xylenes	ND	0.0250	1	06/19/23	06/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	06/19/23	06/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2325010
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	70-130	06/19/23	06/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2325022
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Dil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
Surrogate: n-Nonane		71.2 %	50-200	06/20/23	06/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2325025
Chloride	37.4	20.0	1	06/20/23	06/20/23	

Sample Data



QC Summary Data

		<u><u>v</u> v v</u>	~ 1111116						
Devon Energy - Carlsbad		Project Name:		ederal G Gas (Com 1 Res	erve Pit			Reported:
6488 7 Rivers Hwy		Project Number:		1058-0007					
Artesia NM, 88210		Project Manager:	Α	shley Gioveng	go				6/21/2023 5:13:40PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325010-BLK1)							Prepared: 0	6/19/23 A	analyzed: 06/20/23
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: 4-Bromochlorobenzene-PID	7.60	0.0200	8.00		95.0	70-130			
LCS (2325010-BS1)							Prepared: 0	6/19/23 A	analyzed: 06/20/23
Benzene	4.55	0.0250	5.00		91.1	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.7	70-130			
Toluene	4.82	0.0250	5.00		96.5	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.56	0.0500	10.0		95.6	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			
Matrix Spike (2325010-MS1)				Source:	E306144-	22	Prepared: 0	6/19/23 A	analyzed: 06/20/23
Benzene	4.61	0.0250	5.00	ND	92.2	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.90	0.0250	5.00	ND	98.1	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			
Matrix Spike Dup (2325010-MSD1)				Source:	E306144-	22	Prepared: 0	6/19/23 A	analyzed: 06/20/23
Benzene	4.63	0.0250	5.00	ND	92.7	54-133	0.465	20	
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	61-133	0.0647	20	
Toluene	4.91	0.0250	5.00	ND	98.3	61-130	0.185	20	
o-Xylene	4.98	0.0250	5.00	ND	99.6	63-131	0.321	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	0.0776	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131	0.160	20	



QC Summary Data

		t · ·	•	ur j Duu	~				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	-	Federal G Gas C 01058-0007	Com 1 Res	erve Pit			Reported:
Artesia NM, 88210		Project Manager	: .	Ashley Gioveng	0				6/21/2023 5:13:40PM
	Noi	nhalogenated (Organic	s by EPA 801	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325010-BLK1)							Prepared: 0	6/19/23 A	Analyzed: 06/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			
LCS (2325010-BS2)							Prepared: 0	6/19/23 A	Analyzed: 06/20/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.3	70-130			
Matrix Spike (2325010-MS2)				Source:	E306144-	22	Prepared: 0	6/19/23 A	Analyzed: 06/20/23
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.2	70-130			
Matrix Spike Dup (2325010-MSD2)				Source:	E306144-	22	Prepared: 0	6/19/23 A	Analyzed: 06/20/23
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.1	70-130	0.500	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			



QC Summary Data

		QU D		ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Federal G Gas (01058-0007	Com 1 Res	erve Pit			Reported:
Artesia NM, 88210		Project Manager	:	Ashley Gioveng	<u>j</u> 0				6/21/2023 5:13:40PM
	Nonha	logenated Org	ganics by	y EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325022-BLK1)							Prepared: 0	6/20/23 A	nalyzed: 06/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			
LCS (2325022-BS1)							Prepared: 0	6/20/23 A	nalyzed: 06/20/23
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	42.4		50.0		84.8	50-200			
Matrix Spike (2325022-MS1)				Source:	E306121-	04	Prepared: 0	6/20/23 A	nalyzed: 06/20/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	32.1		50.0		64.3	50-200			
Matrix Spike Dup (2325022-MSD1)				Source:	E306121-	04	Prepared: 0	6/20/23 A	analyzed: 06/20/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.5	38-132	1.51	20	
Surrogate: n-Nonane	38.9		50.0		77.7	50-200			



QC Summary Data

		~		v					
Devon Energy - Carlsbad	Project Name: Federal G Gas Com 1 Reserve Pit								Reported:
6488 7 Rivers Hwy		Project Number:	(01058-0007					•
Artesia NM, 88210		Project Manager:		Ashley Gioveng	j0				6/21/2023 5:13:40PM
		Anions	by EPA	300.0/9056A	۱.				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325025-BLK1)							Prepared: 0	6/20/23 A	Analyzed: 06/20/23
Chloride	ND	20.0							
LCS (2325025-BS1)							Prepared: 0	6/20/23 A	Analyzed: 06/20/23
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2325025-MS1)	x Spike (2325025-MS1) Source: E306121-01 Prepared: 06/								Analyzed: 06/21/23
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2325025-MSD1)				Source:	E306121-	01	Prepared: 0	6/20/23 A	Analyzed: 06/21/23
Chloride	263	20.0	250	ND	105	80-120	0.880	20	

QC Summary Report Comment:

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



Devon Energy - Carlsbad	Project Name:	Federal G Gas Com 1 Reserve Pit	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/21/23 17:13

- 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.



roject In	formation						Chair	of Custo	dy												Ра	ige <u>l</u> c
P <u>roject:</u> Project N	evon Energy Federal G Ga 1anager: Ash 3122 Natio	ley Giove	s Hwy City, State, Zir Carlsbad, NM 88220					E304146				A dol	ST-C	er DO7 Metho	1D d	2D	TA 3D		ndard	EPA Pi CWA	rogram SDWA RCRA	
City, Stat Phone: S	e, Zip Carlst 575-988-005 giovengo@e	oad, NM 3 5	88220		Pho	ne: 575-689-75 ill: jim.raley@dv	<u>97</u>	í		TPH GRO/DRO/ORO by 8015	BTEX by 8021	, 8260	Metals 6010	Chloride 300.0		C NM		хт	-	IM CO	State UT AZ	TX
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number		TPH GF 8015	BTEX b	VOC by 8260	Metals	Chloric		BGDOC		GDOC			Remarks	
845	6/15/2023	S	1		S	SW01-0-5.5'		1								x						
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Additio	nal Instructio	ons:		_ _		· · · · · · · · · · · · · · · · · · ·				L			L			1	I		I			
					ple. I am aware t for legal action.	hat tampering with or Sample		ing the samp	ole locat	ion,											they are sam equent days.	pled or
	hed by: (Signati		Dat	16/23		Received by: (Sign	ature Villa els	Date	5-23	Time	037	>	Rece	eived	on ice:	C	-	se On I	n ly	an di di Li Santa		
MAL	hed by: (Signate	enor		1623		Received by: (Sign	MUSSO	Date	-2	Time	100		<u></u>	na 193 Na 193 Na 1939	en dien Spielen Spielen	<u>T2</u>		e dia per en an operatione e Recorder	1	3	en de la com <u>entre parte</u> n entre parten	an a
Relinquis	hed by: (Signati	urel VH0	Dat 6	-16.73	^{Time} 2300	Received by: foign	Man	Date ()/9	125	8	<u>s</u> x			Tem		1			•		eries A A angel	
Note: Sar	atrix: S - Soil, Sd - nples are disca	rded 30 day	vs after res	sults are repo	rted unless othe	er arrangements are h this COC. The liabi	made. Hazardous	Contain samples wi	ll be re	turned	d to clie	ent o	r disp	osed of	at the c	ient ex	kpense	- VO/ e. The	e report	for the a	inalysis of t	he above
samples	s аррисаріе оп	iy to those	samples re					11 of 12					C	3		e	r		/i	rc	ot	ec



Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad Da	ate Received:	06/19/23	08:00	Work Order ID:	E306146
Phone:	(505) 382-1211 Da	ate Logged In:	06/19/23	09:08	Logged In By:	Caitlin Mars
Email:		ie Date:		17:00 (4 day TAT)	88	
Chain o	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		<u>Commen</u>	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample tem	nperature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	aqueous VOC samples present?		No			
15. Are '	VOC samples collected in VOA Vials?		NA			
16. Is the	e 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 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	ibel					
	e field sample labels filled out with the minimum information	ation:				
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes No			
	Preservation		110			
	the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?		NA			
	o filteration required and/or requested for dissolved meta	ıls?	No			
Multiph	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase?		No			
	s, does the COC specify which phase(s) is to be analyzed		NA			
•	ract Laboratory					
	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so		NA	Subcontract Lab: NA		
				~		

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



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APPENDIX G

Email Correspondence

Erick Herrera

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Thursday, March 16, 2023 10:21 AM
То:	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



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.raley@dvn.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, 20023:

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,



From:	Ashley Giovengo
То:	Enviro, OCD, EMNRD
Cc:	Cole Burton
Subject:	48-hour Confirmation Sampling Notification Email - Federal G Gas Com #1
Date:	Monday, May 15, 2023 10:13:08 AM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png

Hello,

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

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 Y

From:	Ashley Giovengo
То:	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 Y

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

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	244491
	Action Type:
	[C-141] Release Corrective Action (C-141)
	•

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	8/17/2023

Action 244491