

Incident ID	NAPP2224457572
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?

>100 _____ (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.*

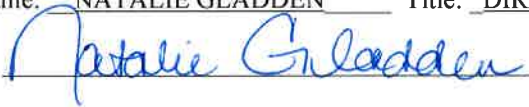
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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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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: NATALIE GLADDEN Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORY

Signature: 

Date: 9-12-22

email: natalie@energystaffingllc.com

Telephone: 575-390-6397

OCD Only

Received by: Jocelyn Harimon

Date: 09/13/2022

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Natalie Gladden Title: Director of Environmental and Regulatory

Signature:  Date: 9-12-22

email: natalie@energystaffingllc.com Telephone: 575-390-6397

OCD Only

Received by: Jocelyn Harimon Date: 09/13/2022

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 06/28/2023

PITTS ENERGY

REMEDIATION PLAN NEW MEXICO FEDERAL 54 #054

API NO. 30-041-20267
COMPLIANCE KEY# CEZB223557036
INCIDENT NO. NAPP2224457572
LEGALS: UNIT LETTER J, SECTION 27, TOWNSHIP 08S, RANGE 36E
DATE OF RELEASE: UNKNOWN

PREPARED BY:



2727 NW COUNTY ROAD
HOBBS, NM 88240
575-393-9048

September 1, 2022

New Mexico Energy, Minerals and Natural Resources
NMOCD District II
C/O Mike Bratcher, Robert Hamlet, Jennifer Nobui
811 S. First Street
Artesia, NM 88210

NM Energy, Minerals, Natural Resources Department
Oil Conservation Division District I – NM South
1625 N. French Drive
Hobbs, NM 88240

Bureau of Land Management
C/O Jim Amos
620 E. Green Street
Carlsbad, NM 88220

Pitts Energy
C/O Zach Pitts
3313 Caldera Blvd
Midland, TX 79707

Subject: Remediation Workplan Request for Pitts Energy – New Mexico Federal 54 #054

API No. 30-041-20267

Incident No. NAPP2224457572

Unit Letter J, Section 27, Township 08S, Range 36E

Roosevelt County, New Mexico

To Whom it May Concern:

Pitts Energy retained Energy Staffing Services, LLC (ESS) to conduct a sampling event for the New Mexico Federal 54 #054 (hereafter referred to as the "Federal 54") due to routine well inspection conducted by Eugene Bolton, Compliance Office for the NM Energy, Minerals, Natural Resources Department for the New Mexico Oil and Gas Conservation Division I (NMOCD). This well inspection was conducted sometime around February 4th, 2022. On June 15th, ESS was contacted to conduct an environmental investigation on the above-mentioned site.

On September 1st the initial spill notification was sent by ESS and is attached to this report. The initial C141 was submitted and approved by the OCD. The initial C141 was also emailed to the BLM on same said date. The OCD assigned the Incident Number of NAPP2224457572 to this release detailed herein. Please find the notification to the OCD and BLM along with the Initial C141 attached to this report.

This report provides a detailed description of the site assessment, delineation and proposed remedial work plan, which demonstrates that the closure criteria has been established in the 19.15.29.12 *New Mexico Administrative Code (NMAC: New Mexico Oil Conservation Division, 2018)* have been met and all applicable regulations have been followed. This document is intended to serve as the final report to obtain approval from the NMOCD and BLM for the remediation plan of the above-mentioned release.

Incident and Inspection Description

On February 4th of 2022, an email was received from Eugene Bolton of the NMOCD concerning the following issues found at the site during an onsite inspection:

From routine well inspections conducted for operators in New Mexico, the following compliances are viewed in the Compliance Key # in the operator Well Details.

Regardless of inspection date, the 90-day due date is established from the date of this email. Please ensure each field agent receives all details for each compliance.

Helpful Reminder: Current operator contact information is updated via the operator's account login, within 30 days of each change.

Compliance Key #:

cEZB223557036 [30-041-20267] - NEW MEXICO FED 54 #054

- 19.15.29 Releases: TB Releases, tub ring inside berm with breached liner, moderate stain at load line port.

- 19.15.16.8 Sign on Wells: Include API # 30-041-20267.

For 19.15.29 Releases shown above:

Notice of Release (NOR) and Form C-141 are required for an aggregate site release threshold of 5 barrels fluid (1.04 cubic yard fluid), or 12 cu yards soil (avg. dump truck load).

Process:

- *Repair / replace leak source/s.*
- *Operator is responsible for all costs if opting to submit a complete soil sample site characterization, that may or may not preclude an excavation.*

If all onsite and offsite locations are at or below the Table I criteria in 19.15.29.12.E(2) NMAC, a complete site characterization with exact soil sampling locations and concentrations, can be submitted to this email thread for review.

Remediation:

- *Remove all soil mix areas to extent of horizontal and vertical contamination, both on & (if) off of site.*
- *Properly dispose all materials, per rule.*
- *Upon excavation up to 2-foot depth, please stop work, do not cover contamination.*

- Following an approved method listed in 19.15.29.11.A(5)(b) NMAC, submit soil sample concentrations and exact locations within each excavation, verifying all contamination levels are below thresholds.
- In the scaled site and sampling diagram, include the location and three photo angles of each exposed excavation, shovel included in images for perspective.
- For receiving the next process to continue, return images and concurring soil sample levels on this email thread.

Site Characterization

The environmental issues found at the Federal 54, occurred on private surface and BLM minerals. The site is located at latitude 33.593865 and longitude of -103.243543. The wrong GPS was filed on the C141, GPS used was for the well pad for the Federal 54 #54 and not for the tank battery. Please use the corrected GPS on further documentation, corrected C141 will be filed with this remediation plan. This location is found 13.02 miles southwest of Bledsoe, Texas. Please see the site map attached.

The Federal 54 consists of oil and gas production leases and cattle grazing land. The release was found on the production facility pad. Elevation of this site is at 4,089ft. The *United States Department of Agriculture Natural Resources Conservation Service*, indicates that the soil type found at the Federal 54, consists of 100% Jalmar, Amarose and Vestwells soils with a 1 to 3 percent slope. Please find the Soil Map attached.

This area historically, has been primarily dominated by little bluestem, sand bluestem, sideoats grama, Harvard Oak and miscellaneous perennial grasses. Please find the attached *Rangeland and Vegetation Classification* information attached. In the area of the Federal 54, the *FEMA National Flood Hazard Layer* indicates that there is a 2% annual chance of a flood hazard in this area (see map attached).

There is "no potential" for Karst Geology to be present near the Federal 54 site, according to the *United States Department of the Interior, Bureau of Land Management*. Please find the Karst Map attached herein.

There is no surface water located near or around the Federal 54 release area. This site is not near a continuously flowing watercourse and/or lakebed within ½ a mile from the release. No other critical or community features at the Federal 54 were found. (Attached Watercourse Map.)

The nearest and most recent water well to the site according to the *New Mexico Office of the State Engineer* is L 13754 POD1, the well was drilled in 2014 with a groundwater depth logged at 216'bgs and is found 4,540 yards from the site. L 00176 POD1, was drilled 2008 with no groundwater data available and is located 2,556 yards from the site. L 12577 POD1, was drilled in 2010 with no groundwater data available and is located 4,576 yards from the site. An extended groundwater search was conducted using the *OSE POD Location Mapping System* and it has been determined that, no well exists within ½ a mile radius of the Federal 54 release. Please find the NMOSE, OSE POD and groundwater map attached to this report.

Closure Criteria Determination

The Closure Criteria for Soils impacted by a Release is shown in the below chart. With no groundwater data available within a ½ a mile radius from the release point, being on Private Surface and Federal Minerals, the site fell under <50' to groundwater. The site has no record of Karst Geology therefore it is not a determining factor in this case.

DGW	Constituent	Method	Limit
≤ 50'	Chloride	EPA 300.0 OR SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	100 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	50 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Soil Remediation Action Levels

ESS has provided sufficient data that this release has impacted soil at the Federal 54 release site and that the protocol is consistent with the remediation/abatement goals and objectives set forth in the *NMOCD Closure Criteria for Soils Impacted by a Release, dated August 14, 2018*. This document provided direction for Pitts Energy initial response actions, site assessment and delineation efforts conducted by ESS Staff. ESS would like to present to you the following information concerning the delineation process for the release detailed herein.

Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted according to the NMOCD – approved industry standards. Accepted NMOCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect clean samples in airtight glass jars supplied by the laboratory to conduct the analysis
- Each sample jar was labelled with site and sample information
- Samples were kept in and stored in a cool place and packed on ice
- Promptly ship sample to the lab for analysis following the chain of custody procedures

The following lab analysis method was used for each bottom hole (vertical) and sidewall sample (horizontal) was submitted to Envirotech Analytical Laboratory:

Volatile Organics by EPA 8021B

- Benzene, Toluene, Ethylbenzene, p.m. Xylene, o-Xylene and Total Xylenes

Nonhalogenated Organics by EPA 8015D – GRO

- Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPA 8015D – DRO/ORO

- Diesel Range Organics (C10-C28)
- Oil Range Organics (C28-C40)

Anions by EPA 300.0/9056A

- Chloride

Release Investigation Data Evaluation

On June 15th of 2022, ESS staff was dispatched out to the Federal 54 site, to complete a full site assessment of the release. Initial site photos were obtained, impact area was measured and mapped; the following information was observed:

- The release looked historical in nature and the only standing fluid that was visible, was found under the liner. Roustabout crews had been excavating around the tank base when crews arrived.
- It was determined that the tank had corrosion issues and would need to be replaced. Roustabout crews were pulled off as delineation of the impacted area was needed to determine the extent of the contamination.
- The surface impact measured as follows:
 - Facility Containment – 3,770 sq. ft.
 - Separator Containment – 1,277 sq. ft.

Please see the initial photos and the initial impact map of the release attached to this report.

On June 21st of 2022, ESS crews began the delineation process. The delineation of the site began by use of hand-auger, until it was determined that the release discovered at the Federal 54 had been leaking for some time. The delineation was divided out into two separate areas: classified as the Battery and the Separator Area. For the Battery Area, nine vertical and eight horizontal sample points were set, GPS'd and mapped. For the Separator Area, nine vertical and seven horizontal sample points were set, GPS'd and mapped. The surface samples were obtained, field analyzed and sent to Environmental Laboratory for confirmation. At the battery, sample label SP2 surface was previously excavated by roustabout crew down to 2'bgs, therefore the first sample obtained at 2' was sent in for lab analysis and used as the surface sample. SP6 at the Battery was also previously excavated to about 2" from surface, but the surface is labelled surface in this instance. As you can see in the battery delineation sample log below, TPH was the main focus as some of the sample points had elevated chloride levels as well. The depth of the contamination at the battery portion of the impacted area, ranged from 8' to 44'bgs. Attached you will find the sample data, lab analysis and delineation map, below you will find the sample data log of the battery area:

BATTERY DELINEATION SAMPLE DATA

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	SURF	3600	L	ND	ND	ND	ND	ND	3520
	2	240	H						
	4	100	H	ND	ND	222	180	402	104
	5	20	H	ND	ND	40.9	58.3	99.2	ND
	6	80	H						
	8	80	H						
	10	160	H	ND	ND	305	ND	305	149

	12	80	L						
	14	20	L	ND	ND	ND	ND	ND	ND

SP2	2	400	H	0.154	ND	3790	1140	4930	363
	4	960	H						
	5	180	L	ND	ND	ND	ND	ND	152
	6	880	H						
	8	640	H						
	10	140	L	ND	ND	ND	ND	ND	128
	12	1440	H						
	14	1920	H						
	15	800	H	ND	ND	242	75	317	775
	16	1360	H						
	18	720	L						
	20	3080	L	ND	ND	60.3	ND	60.3	3430
	22	1040	H						
	24	2720	H						
	26	4800	L	ND	ND	ND	ND	ND	4660
	28	1960	L						
	30	3360	L	ND	ND	ND	ND	ND	3490
	32	1120	L						
	34	1120	L						
	35	800	H	ND	ND	190	117	307	867
	38	400	H	ND	ND	116	ND	116	355
	40	400	L						
	42	400	L	ND	ND	ND	ND	ND	346

SP3	SURF	80	H	ND	ND	88.4	64.9	153.3	50.1
	1	80	H						
	2	80	H	ND	ND	182	177	359	21.9
	4	840	H						
	5	180	L	ND	ND	31.3	ND	31.3	ND
	6	160	H						
	8	160	H						
	10	240	H	27.2	223	8130	2090	10443	207
	12	240	H						
	14	880	H						
	16	560	H	18.1	ND	7860	1570	9430	591
	18	720	H						
	20	640	H	16.8	ND	8710	1780	10490	720
	22	320	H						
	24	480	H						

	26	320	H	6.67	ND	7450	1420	8870	542
	28	400	H						
	30	320	H	8.14	ND	3400	730	4130	270
	32	320	H						
	34	320	H						
	36	200	H	11	156	5100	ND	5256	159
	38	300	H						
	40	220	H	ND	ND	484	146	630	115
	42	200	L						
	44	100	L	ND	ND	ND	ND	ND ¹	ND

SP4	SURF	80	H	9.53	229	16700	5910	22839	53.3
	2	160	H						
	4	1000	H						
	6	860	H						
	8	1540	H						
	10	200	L	ND	ND	34.7	ND	34.7	117
	12	800	H						
	14	200	H	ND	ND	2080	913	2993	128
	16	560	L						
	18	516	L	ND	ND	ND	ND	ND	516

SP5	SURF	400	H	ND	ND	64.7	77.5	142.2	249
	2	1280	H						
	4	640	H						
	5	100	H	0.423	ND	3110	1060	4170	70
	6	1880	H						
	8	2000	H						
	10	960	L	ND	ND	35.5	ND	35.5	ND
	12	1880	L						
	14	1280	H						
	15	600	L	ND	ND	83.7	ND	83.7	526
	16	1680	H						
	18	1480	H						
	20	100	L	ND	ND	ND	ND	ND	90.9
	22	1000	H						
	24	1240	H						
	26	1000	H						
	28	1280	H						
	30	1480	H						
	32	1200	H						
	34	400	H						

	36	200	H	ND	ND	484	146	630	115
	38	400	L						
	40	360	L	ND	ND	ND	ND	ND	353

SP6	SURF	>4000	H	38.8	491	8410	2070	10971	4650
	4	480	H						
	5	60	H	ND	ND	1310	583	1893	49
	6	560	H						
	8	640	H						
	10	800	H	9.17	129	6570	1540	8239	452
	12	1280	H						
	14	2240	H						
	15	60	H	16.4	138	7610	1740	9488	59.9
	16	4000	H						
	18	3360	H						
	20	3280	H	10.8	ND	4760	910	5670	2240
	22	2960	H						
	24	1760	H						
	26	2400	H	3.34	ND	2500	509	3009	1440
	28	2800	H						
	30	2560	H	0.479	ND	2030	510	2540	3680
	32	1680	H						
	34	3280	H	0.175	ND	1710	478	2188	4060
	36	1200	H						
	38	880	H						
	39	480	L						
	40	480	L	ND	ND	ND	ND	ND	200

SP7	SURF	4080	H	ND	ND	1200	1280	2480	3710
	2	1560	H						
	4	1520	H						
	6	160	L						
	8	80	M	ND	ND	ND	ND	ND	59.3
	10	600	L						
	12	640	L						
	14	620	L						
	16	210	L						
	18	100	L	ND	ND	ND	ND	ND	107

SP8	SURF	400	H	0.169	ND	985	664	1649	344
	2	320	H						
	4	240	H						

	6	160	H						
	8	160	H						
	10	160	H						
	12	320	H						
	14	520	L						
	16	480	L	ND	ND	ND	ND	ND	506

SP9	SURF	200	H	ND	ND	493	625	1118	213
	2	400	H						
	4	480	H						
	6	720	H						
	8	800	H						
	10	720	H						
	12	1000	H						
	14	2000	H						
	16	1600	H						
	17	520	L						
	18	320	L	ND	ND	ND	ND	ND	318

SW1	SURF	800	H	ND	ND	498	274	772	766
	1'	760	H						
	2'	640	H						
	3'	600	L						
	4'	540	L	ND	ND	ND	ND	ND	550

SW2	SURF	1200	H	ND	ND	395	221	616	1090
	1'	1000	H						
	2'	880	H						
	3'	600	L						
	4'	600	L	ND	ND	ND	ND	ND	618

SW3	SURF	1200	H	ND	ND	430	238	668	997
	1'	1060	H						
	2'	840	H						
	3'	420	L						
	4'	300	L	ND	ND	ND	ND	ND	286

SW4	SURF	1100	H	ND	ND	437	236	673	1030
	1'	800	L						
	2'	640	L						
	3'	480	L						
	4'	280	L	ND	ND	ND	ND	ND	288

SW5	SURF	1000	H	ND	ND	683	376	1059	937
	1'	940	H						
	2'	720	L						
	3'	540	L						
	4'	400	L	ND	ND	ND	ND	ND	383

SW6	SURF	800	H	ND	ND	512	308	820	757
	1'	1000	H						
	2'	620	H						
	3'	500	L						
	4'	400	L	ND	ND	ND	ND	ND	398

SW7	SURF	946	H	ND	ND	872	503	1375	946
	1'	1200	H						
	2'	860	L						
	3'	540	L						
	4'	400	L	ND	ND	ND	ND	ND	407

SW8	SURF	1600	H	ND	ND	393	288	681	1440
	1'	1180	H						
	2'	760	L						
	3'	500	L						
	4'	400	L	ND	ND	ND	ND	ND	400

The Separator Area was delineated by use of a track-hoe and hand-auger due to lines and production equipment in the area. It is also unknown as to what leaked in this area as there was no active leak. Again, the concentrations of the TPH, BTEX and Chlorides were elevated in this area. Due to the constant fluctuations in the sample data, this area had also been leaking for some time. The depths of contamination ranged from 4' to 44'bgs. During the remediation process, SP6 will need to be further delineated past 18'bgs due to chloride levels coming in at 613 mg/kg with only 13 mg/kg over the site levels with lab confirmation. SP9 will need to be further delineated past 4'bgs as chloride levels were lab confirmed at 684 mg/kg, with 84 mg/kg over the site closure levels. Sidewall sample points 1, 2, 5 and 7 will need to be further delineated during the remediation process when excavation begins to further investigate the extent of contamination. Please see the sample log, lab analysis, sample map attached herein as well as the sample log below for the Separator Area:

SEPARTOR AREA DELINEATION SAMPLE DATA

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	SURF	40	H	30.9	446	20800	4460	25706	ND
	1	160	H						
	2	80	H						
	3	80	H						
	4	80	H						
	5	80	H	ND	ND	1440	ND	1440	56.6
	6	240	H						
	8	320	H						
	10	160	H	ND	ND	1730	542	2272	ND
	12	400	H						
	14	1080	H						
	16	1310	H	3.85	54.9	5500	622	6176.9	1250
	18	1100	H						
	20	640	H	0.0582	ND	349	234	583	620
	22	480	H						
	24	640	H	ND	ND	54.9	90	144.9	625
	26	400	H						
	28	320	H	ND	ND	438	248	686	280
	30	300	L						
	32	140	L	ND	ND	ND	ND	ND	119

SP2	SURF	1400	H	126	1320	37200	7940	46460	1420
	2	1160	H						
	4	160	H						
	5	100	H	ND	ND	1050	356	1406	81.1
	6	240	H						
	8	1320	H						
	10	1000	H	ND	ND	4120	1150	5270	961
	12	1240	H						
	14	320	H						
	16	300	H	ND	ND	793	234	1027	301
	18	720	H						
	20	1600	H	0.074	ND	930	184	1114	1560
	22	1120	H						
	24	560	H						
	26	560	H	ND	ND	81.1	ND	81.1	577
	28	400	L						
	30	140	L	ND	ND	ND	ND	ND	130

SP3	SURF	1560	H	1.45	26.2	10800	6010	16836.2	1500
	2	800	H						
	4	400	H						
	6	400	H	ND	ND	ND	ND	ND	472

SP4	SURF	80	H	2.26	ND	25700	7620	33320	ND
	2	160	H						
	4	160	H						
	5	300	H	ND	ND	2350	977	3327	229
	6	400	H						
	8	560	H						
	10	300	H	ND	ND	596	147	743	291
	12	240	H						
	14	240	H						
	16	240	H	ND	ND	299	62	361	262
	18	240	H						
	20	800	L	ND	ND	55.7	ND	55.7	822
	22	800	L	ND	ND	27.9	ND	27.9	803
	24	400	L						
	26	140	L	ND	ND	ND	ND	ND	144

SP5	SURF	3360	H	ND	ND	1200	1280	2480	3710
	2	1120	H						
	4	1180	H						
	5	400	H	ND	ND	ND	ND	ND	354
	6	560	H						
	8	800	H						
	10	200	H	ND	ND	ND	ND	ND	207
	12	1220	H						
	14	800	H						
	16	1000	H						
	18	640	H						
	20	1200	H						
	22	880	H						
	24	1600	H						
	26	1840	L	ND	ND	ND	ND	ND	1780
	28	1600	H						
	30	1800	H	ND	ND	92.5	ND	92.5	1720
	32	1600	H						
	34	400	H						
	36	220	H	ND	ND	228	116	344	196
	38	340	H						

	40	300	H	ND	ND	429	237	666	276
	42	460	L						
	44	400	L	ND	ND	ND	ND	ND	414

SP6	SURF	400	H	0.169	ND	985	664	1649	344
	2	1040	H						
	4	1800	H						
	6	1280	H						
	8	640	H						
	10	560	H						
	12	560	H	ND	ND	467	282	749	583
	14	680	L						
	16	640	L						
	18	600	L	ND	ND	ND	ND	ND	613

SP7	SURF	320	H						
	2	160	H						
	4	60	H	ND	ND	103	91.6	194.6	58.5
	6	1000	H						
	8	1000	H						
	10	920	H	ND	ND	ND	ND	ND	895
	12	1000	L						
	14	820	L						
	16	440	L						
	18	100	L	ND	ND	ND	ND	ND	107

SP8	SURF	600	H	1.26	29.1	5040	1340	6409.1	497
	2	720	H						
	4	720	H						
	6	640	H						
	8	800	H						
	10	960	H						
	12	1280	H						
	14	1360	H						
	16	1120	H						
	18	2080	H						
	20	1520	H						
	22	1520	H						
	24	720	H						
	26	720	H						
	28	880	H						
	30	560	H						

	32	560	H						
	34	540	H	ND	ND	ND	ND	ND	537
SP9	SURF	300	H	1.39	32.1	3600	746	4378.1	251
	1'	1200	H						
	2'	1020	H						
	3'	600	H						
	4'	600	H	ND	ND	ND	ND	ND	684
SW1	SURF	60	H	ND	ND	172	112	284	64.1
	1	80	H						
	2	60	H	ND	ND	194	131	325	64.9
	3	60	H						
	4	60	H	ND	ND	907	1010	1917	51.4
SW2	SURF	20	H	ND	ND	171	185	356	25.5
	1	20	H						
	2	ND	H	ND	ND	50	69.3	119.3	ND
	3	60	H						
	4	60	H	ND	ND	1020	1450	2470	53.4
SW3	SURF	160	H	ND	ND	132	156	288	174
	1	80	H						
	2	20	H	ND	ND	45	57.2	102.2	ND
	3	400	L						
	4	340	L	ND	ND	ND	ND	ND	356
SW4	SURF	320	H	ND	ND	290	321	611	312
	1	520	H						
	2	400	H	ND	ND	136	133	269	422
	3	480	L						
	4	480	L	ND	ND	ND	ND	ND	484
SW5	SURF	2000	H	ND	ND	205	117	322	1800
	1	560	H						
	2	560	H	ND	ND	85.8	ND	85.8	547
	3	200	L						
	4	40	L	ND	ND	106	92.1	198.1	ND
SW6	SURF	400	H	ND	ND	335	384	719	384
	1	160	H						
	2	20	L	ND	ND	ND	ND	ND	ND

	3	400	L						
	4	400	L	ND	ND	ND	ND	ND	402
SW7	SURF	40	H	ND	ND	293	388	681	28.9
	1	100	H						
	2	100	H	ND	ND	206	230	436	96
	3	60	L						
	4	20	L	ND	ND	113	132	245	ND

****Delineation site photos attached herein****

Conclusion, Remediation Workplan Request

After the delineation process was completed, it was determined that the facility would be rebuilt and positioned on the west side of the old facility area. This was due to needing to operate the well and allow room to remediate the site. ESS then constructed a lined facility on the west side of the pad, Pitts purchased new tanks and have rebuilt the facility. (See Photos attached).

The visual staining of the surface measured 4,997 sq. ft., but once vertical and horizontal sampling was conducted the final area of impact measured 10,860 sq. ft. Please see the impacted map attached herein.

Pitts Energy and ESS would like to request the following Remediation Plan:

- Finalize the delineation of the separator area as depicted above
- Excavate the entire area of impact to 5'bgs
- 200 sq. ft. composites will be obtained of the excavation area at 5'bgs and confirmed with lab analysis
- Backfill with 1' of clean topsoil and place a 40-mil polyurethane liner on the floor and walls of the excavation, overlapping the sides to ensure proper installation of the seamed liner.
- Haul out approximately, 1,977 cy of contaminated material and haul to Gandy's Disposal
- Backfill the lined area with 3' of topsoil and capping with 1' of caliche as this is still a working production pad. This area will be labelled and GPS'd with a flat metal marker to ensure the liner is never dug into.
- A new separator area will then be constructed utilizing earthen berms with a 20-mil liner and or a polyurethane lined containment, as instructed by Pitts Energy.

Crews will begin the 5'bgs excavation and the site will be prepped for the 5'bgs liner installation. The 5'bgs option will secure the liner from being ripped or torn due to the rocky soil at 4'bgs when topsoil is placed under and above the liner. Upon approval of this remediation plan, the liner will be installed and the area will be backfilled back to its natural state. Once the site is complete, the closure report will be sent to both the NMOCD and BLM for final approval.

Thank you in advance for your time in this matter. If you have any questions or concerns about the above delineation or proposed remediation of the Federal 54 Battery, please contact the undersigned.

Sincerely,



Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



Attachments:

- Spill Notification
- Initial C141
- BLM Email
- OCD Incident Email
- Corrected C141 – Initial
- Site Map
- Soil Map
- Rangeland and Vegetation Map
- FEMA Flood Map
- Karst Map
- Watercourse Map
- NMOSE GW Data and GW Map
- OSE POD Map
- Initial Site Photos
- Impact Map – Initial
- Final Impact Map
- Sample Data
- Lab Analysis
- Delineation Sample Map
- Delineation Sample GPS Log
- Delineation Site Photos
- Remediation C141

Natalie Gladden

From: Natalie Gladden
Sent: Thursday, September 1, 2022 3:58 PM
To: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD; Amos, James A; ocdonline, emnrd, EMNRD; CFO_Spill, BLM_NM
Cc: Zach Pitts
Subject: Pitts Energy - New Mexico Federal 54 #054 - Release Notification

Importance: High

All,

After a field inspection that was conducted by the OCD at the above-mentioned site and after an investigation of the contaminated area around the tank battery, it has been determined that an ongoing release was occurring due to a hole in the bottom of a production tank. The tank has been removed from the facility and a new facility which consisted of a lined containment, new oil tanks has been constructed. The old facility area was investigated, and it has been determined that a release has occurred at this facility.

Site Name: New Mexico Federal 54 #054
Date of Release: Unknown
Amount of Release: Unknown
Legals: U/L J, Section 27, Township 08S, Range 36E
County: Roosevelt

Please use this email as the initial spill notification. An initial C141 (Release Notification) will be uploaded to the OCD Portal immediately.

If you have any questions or concerns, please don't hesitate to contact me.

Sincerely,

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2224457572
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party PITTS ENERGY	OGRID 11786
Contact Name ZACH PITTS	Contact Telephone 432-682-4101
Contact email zach@pittsenergy.com	Incident # (assigned by OCD)
Contact mailing address 3313 Caldera Blvd Midland, TX 79707	

Location of Release Source

Latitude 33.5904579 Longitude -103.24724469
(NAD 83 in decimal degrees to 5 decimal places)

Site Name NEW MEXICO FEDERAL 54 #054	Site Type PRODUCTION WELL/FACILITY
Date Release Discovered UNKNOWN	API# (if applicable) 30-041-20267

Unit Letter	Section	Township	Range	County
J	27	08S	36E	ROOSEVELT

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls) UNKNOWN	Volume Recovered (bbls) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls) UNKNOWN	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Upon a OCD site inspection several issues were found, including but not limited to contaminated soil in and around the facility bermed area. Upon the onsite investigation conducted by ESS and after delineation of the site, an unknown volume was released into the earthen bermed facility. Cause of the release was determined that a hole in the bottom of the production tank had been leaking for some time.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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


- ☒ 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: Natalie Gladden Title: Regulatory and Environmental Director

Signature:  Date: 9-1-22

email: natalie@energystaffingllc.com Telephone: 575-393-9048

OCD Only

Received by: Jocelyn Harimon Date: 09/13/2022

Natalie Gladden

From: Natalie Gladden
Sent: Thursday, September 1, 2022 4:20 PM
To: CFO_Spill, BLM_NM; Amos, James A
Subject: FW: Pitts Energy - New Mexico Federal 54 #054 - C141
Attachments: INITIAL C141.pdf; Pitts Energy - New Mexico Federal 54 #054 - Release Notification

Importance: High

Please find the attached C141 and the OCD/BLM Spill Notification Email.

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



From: Natalie Gladden
Sent: Thursday, September 1, 2022 3:58 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <robert.hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <jennifer.nobui@state.nm.us>; Amos, James A <jamos@blm.gov>; ocdonline, emnrd, EMNRD <emnrd.ocdonline@state.nm.us>; CFO_Spill, BLM_NM <blm_nm_cfo_spill@blm.gov>
Cc: Zach Pitts <zach@pittsenergy.com>
Subject: Pitts Energy - New Mexico Federal 54 #054 - Release Notification
Importance: High

All,

After a field inspection that was conducted by the OCD at the above-mentioned site and after an investigation of the contaminated area around the tank battery, it has been determined that an ongoing release was occurring due to a hole in the bottom of a production tank. The tank has been removed from the facility and a new facility which consisted of a lined containment, new oil tanks has been constructed. The old facility area was investigated, and it has been determined that a release has occurred at this facility.

Site Name: New Mexico Federal 54 #054

Date of Release: Unknown

Amount of Release: Unknown

Legals: U/L J, Section 27, Township 08S, Range 36E

County: Roosevelt

Please use this email as the initial spill notification. An initial C141 (Release Notification) will be uploaded to the OCD Portal immediately.

If you have any questions or concerns, please don't hesitate to contact me.

Sincerely,

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Thursday, September 1, 2022 4:00 PM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 140290

To whom it may concern (c/o Natalie Gladden for PITTS ENERGY CO),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2224457572, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2224457572, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, 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 Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party PITTS ENERGY	OGRID 11786
Contact Name ZACH PITTS	Contact Telephone 432-682-4101
Contact email zach@pittsenergy.com	Incident # (assigned by OCD)
Contact mailing address 3313 Caldera Blvd Midland, TX 79707	

Location of Release Source

Latitude 33.593865

Longitude -103.243543

(NAD 83 in decimal degrees to 5 decimal places)

Site Name NEW MEXICO FEDERAL 54 #054	Site Type PRODUCTION WELL/FACILITY
Date Release Discovered UNKNOWN	API# (if applicable) 30-041-20267

Unit Letter	Section	Township	Range	County
J	27	08S	36E	ROOSEVELT

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls) UNKNOWN	Volume Recovered (bbls) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls) UNKNOWN	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Upon a OCD site inspection several issues were found, including but not limited to contaminated soil in and around the facility bermed area. Upon the onsite investigation conducted by ESS and after delineation of the site, an unknown volume was released into the earthen bermed facility. Cause of the release was determined that a hole in the bottom of the production tank had been leaking for some time.

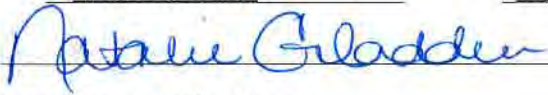
State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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


<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Natalie Gladden</u>	Title: <u>Regulatory and Environmental Director</u>
Signature: <u></u>	Date: <u>9/1/22</u>
email: <u>natalie@energystaffingllc.com</u>	Telephone: <u>575-393-9048</u>
<u>OCD Only</u>	
Received by: _____	Date: _____


PITTS ENERGY

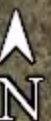
FEDERAL 54 SITE MAP

Legend Page 30 of 504

-  Federal 54 #54
-  Federal 54 Battery

 Federal 54 Battery

 Federal 54 #54



1000 ft

Soil Map—Roosevelt County, New Mexico
(FEDERAL 54 BATTERY)Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey9/6/2022
Page 1 of 3

Soil Map—Roosevelt County, New Mexico
(FEDERAL 54 BATTERY)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Roosevelt County, New Mexico

Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 5, 2021—Feb 8, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
JAV	Jalmar, Amarose, and Vestwells soils, 1 to 3 percent slopes	2.9	100.0%
Totals for Area of Interest		2.9	100.0%

Rangeland Productivity and Plant Composition

In areas that have similar climate and topography, differences in the kind and amount of rangeland or forest understory vegetation are closely related to the kind of soil. Effective management is based on the relationship between the soils and vegetation and water.

This table shows, for each soil that supports vegetation suitable for grazing, the ecological site; the total annual production of vegetation in favorable, normal, and unfavorable years; the characteristic vegetation; and the average percentage of each species. An explanation of the column headings in the table follows.

An *ecological site* is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time throughout the soil development process; a characteristic hydrology, particularly infiltration and runoff that has developed over time; and a characteristic plant community (kind and amount of vegetation). The hydrology of the site is influenced by development of the soil and plant community. The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production. Descriptions of ecological sites are provided in the Field Office Technical Guide, which is available in local offices of the Natural Resources Conservation Service (NRCS).

Total dry-weight production is the amount of vegetation that can be expected to grow annually in a well managed area that is supporting the potential natural plant community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, the amount and distribution of precipitation and the temperatures make growing conditions substantially better than average. In a normal year, growing conditions are about average. In an unfavorable year, growing conditions are well below average, generally because of low available soil moisture. Yields are adjusted to a common percent of air-dry moisture content.

Characteristic vegetation (the grasses, forbs, and shrubs that make up most of the potential natural plant community on each soil) is listed by common name. Under *rangeland composition*, the expected percentage of the total annual production is given for each species making up the characteristic vegetation. The amount that can be used as forage depends on the kinds of grazing animals and on the grazing season.

Range management requires knowledge of the kinds of soil and of the potential natural plant community. It also requires an evaluation of the present range similarity index and rangeland trend. Range similarity index is determined by comparing the present plant community with the potential natural plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential community, the higher the range similarity index. Rangeland trend is defined as the direction of change in an existing plant community relative to the potential natural plant community. Further information about the range similarity index and rangeland trend is available in the "National Range and Pasture Handbook," which is available in local offices of NRCS or on the Internet.

The objective in range management is to control grazing so that the plants growing on a site are about the same in kind and amount as the potential natural plant community for that site. Such management generally results in the optimum production of vegetation, control of undesirable brush species, conservation of water, and control of erosion. Sometimes, however, an area with a range similarity index somewhat below the potential meets grazing needs, provides wildlife habitat, and protects soil and water resources.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service, [National range and pasture handbook](#).

Rangeland Productivity and Plant Composition---Roosevelt County, New Mexico

FEDERAL 54 BATTERY

Report—Rangeland Productivity and Plant Composition

Rangeland Productivity and Plant Composition—Roosevelt County, New Mexico						
Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		<i>Lb/ac</i>	<i>Lb/ac</i>	<i>Lb/ac</i>		<i>Pct</i>
JAV—Jalmar, Amarose, and Vestwells soils, 1 to 3 percent slopes						
Jalmar	R077DY046TX: Sandy 12-17" PZ	2,100	1,400	700	Little bluestem	20
					Sand bluestem	20
					Sideoats grama	10
					Havard's oak	10
					Miscellaneous perennial grasses	10
					Hairy grama	5
					Miscellaneous perennial forbs	5
					Sand lovegrass	5
					Sand dropseed	5
					Sand sagebrush	5
					Plains bristlegrass	5
					Cane bluestem	—
Amarose	R077DY046TX: Sandy 12-17" PZ	2,500	1,400	700	Blue grama	25
					Sideoats grama	20
					Black grama	15
					Hairy grama	10
					Catclaw acacia	5
					Silver bluestem	5
					Plains bristlegrass	5



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/6/2022
Page 3 of 4

Rangeland Productivity and Plant Composition---Roosevelt County, New Mexico

FEDERAL 54 BATTERY

Rangeland Productivity and Plant Composition--Roosevelt County, New Mexico						
Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		<i>Lb/ac</i>	<i>Lb/ac</i>	<i>Lb/ac</i>		<i>Pct</i>
					Western honey mesquite	5
					Yucca	5
					Broom snakeweed	5
Vestwells	R077DY046TX: Sandy 12-17" PZ	2,100	1,400	700	Little bluestem	20
					Sand bluestem	20
					Sideoats grama	10
					Havard's oak	10
					Miscellaneous perennial grasses	10
					Hairy grama	5
					Miscellaneous perennial forbs	5
					Sand dropseed	5
					Sand lovegrass	5
					Sand sagebrush	5
					Plains bristlegrass	5
					Cane bluestem	—

Data Source Information

Soil Survey Area: Roosevelt County, New Mexico

Survey Area Data: Version 18, Sep 10, 2021



Natural Resources
Conservation Service

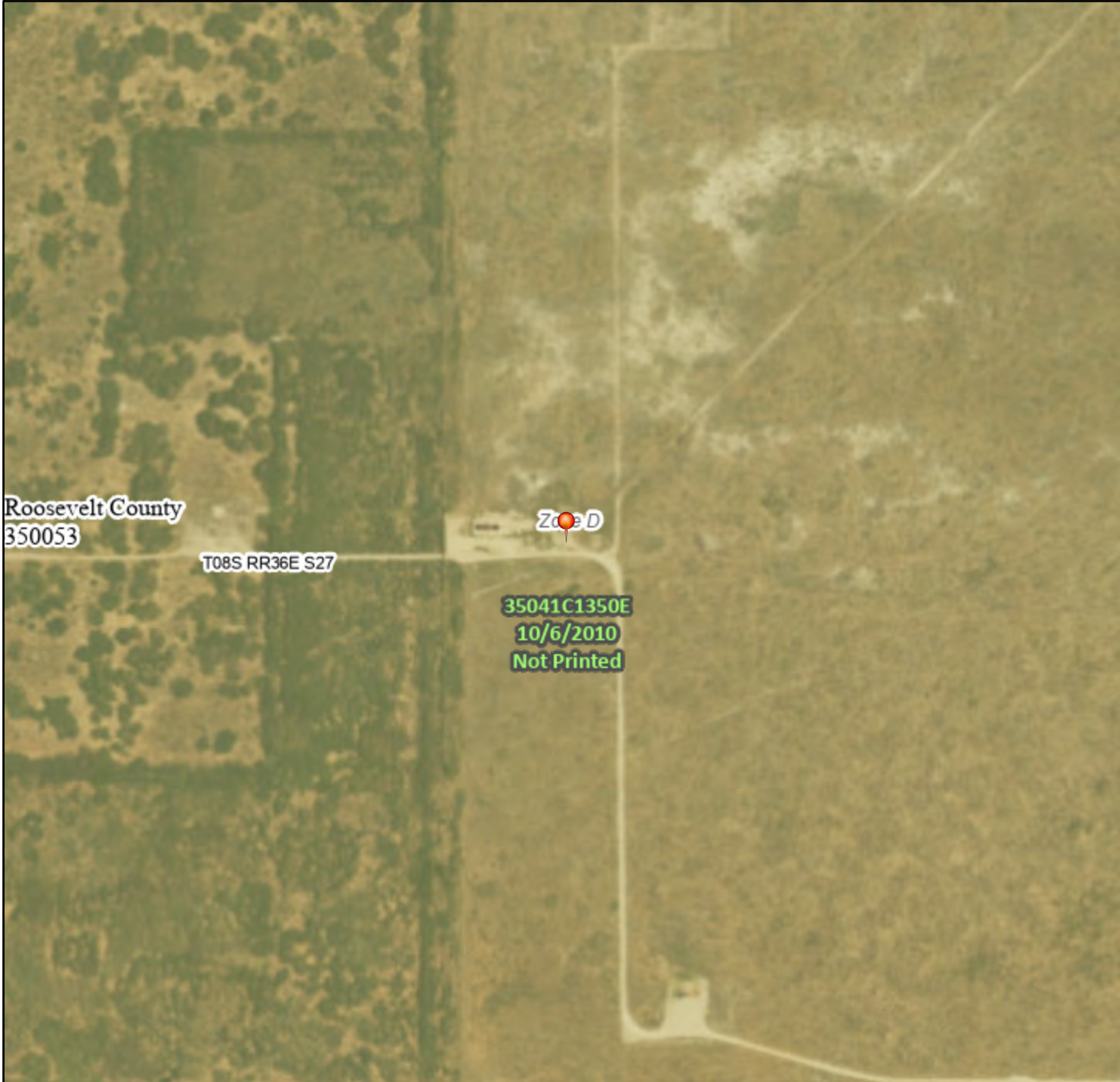
Web Soil Survey
National Cooperative Soil Survey

9/6/2022
Page 4 of 4

National Flood Hazard Layer FIRMMette



103°14'56"W 33°35'53"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
		Area of Minimal Flood Hazard <i>Zone X</i>
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards






The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **9/6/2022 at 5:57 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

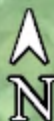
PITTS ENERGY

FEDERAL 54
KARST MAP

Legend

-  Federal 54 #54
-  Federal 54 Battery
-  High
-  Low
-  Medium



Federal 54 #54  Federal 54 Battery



9 mi

PITTS ENERGY

FEDERAL 54
WATERCOURSE MAP

-  Federal 54 #54
-  Federal 54 Battery

Federal 54 #54  Federal 54 Battery



9 mi



New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 662982.84

Northing (Y): 3718508.54

Radius: 1000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/7/22 7:39 AM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	Code	POD Subbasin	County	Source	q q q	6416 4	Sec	TwS	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number		
CL 00176 POD1		CL	RO	Shallow	3	3	1	25	08S	36E	665436	3717789		2556	04/28/2008	04/30/2008	05/06/2008	231		GILLIAM, DUB ALLEN	1145
L 13754 POD1		L	LE	Shallow	2	2	2	01	09S	36E	666729	3715942		4540	11/11/2014	11/15/2014	11/26/2014	216	216	GILLIAM, DUB ALLEN	1145
L 12577 POD1		L	LE	Shallow	4	3	2	05	09S	36E	659955	3715077		4576	08/02/2010	08/02/2010	08/12/2010	209		EADES, ALAN	1044

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 662982.84

Northing (Y): 3718508.54

Radius: 5000

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9/7/22 7:40 AM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CL 00176	POD1	3	3	1	25	08S	36E	665436	3717789

Driller License: 1145 **Driller Company:** GILCO DRILLING COMPANY

Driller Name: GILLIAM, DUB ALLEN

Drill Start Date: 04/28/2008

Drill Finish Date: 04/30/2008

Plug Date:

Log File Date: 05/06/2008

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size: 5.00

Depth Well: 231 feet

Depth Water:

Water Bearing Stratifications:

Top Bottom Description

208	227	Sandstone/Gravel/Conglomerate
-----	-----	-------------------------------

Casing Perforations:

Top Bottom

211	231
-----	-----

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Page 1 of 1

POD SUMMARY - CL 00176 POD1



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 12577	POD1	4	3	2	05	09S	36E	659955	3715077

Driller License: 1044	Driller Company: EADES WELL DRILLING & PUMP SERVICE
Driller Name: EADES, ALAN	
Drill Start Date: 08/02/2010	Drill Finish Date: 08/02/2010
Log File Date: 08/12/2010	PCW Rcv Date:
Pump Type:	Source: Shallow
Casing Size: 5.75	Depth Well: 209 feet
	Estimated Yield:
	Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	105	120	Sandstone/Gravel/Conglomerate
	165	205	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	149	209

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Page 1 of 1


POD SUMMARY - L 12577 POD1



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 13754	POD1	2	2	2	01	09S	36E	666729	3715942 

Driller License: 1145 **Driller Company:** GILCO DRILLING COMPANY

Driller Name: GILLIAM, DUB ALLEN

Drill Start Date: 11/11/2014

Drill Finish Date: 11/15/2014

Plug Date:

Log File Date: 11/26/2014

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 2 GPM

Casing Size: 6.00

Depth Well: 216 feet

Depth Water: 216 feet

Water Bearing Stratifications:

Top Bottom Description

193 211 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

20 216

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9/7/22 7:41 AM

Page 1 of 1

POD SUMMARY - L 13754 POD1

PITTS ENERGY

FEDERAL 54
GROUNDWATER MAP

Legend

- CL 00176 POD1 2556 YARDS FROM SITE - NO GW
- Federal 54 Battery
- L 12577 POD1 - 4576 YARDS FROM SITE NO GW
- L 13754 POD1 - 4540 YARDS FROM SITE - 216'DGW

Bledsoe

CL 00176 POD1 2556 YARDS FROM SITE - NO GW

Federal 54 Battery

L 12577 POD1 - 4576 YARDS FROM SITE NO GW

L 13754 POD1 - 4540 YARDS FROM SITE - 216'DGW

Tatum



10 mi

OSE POD Locations Map



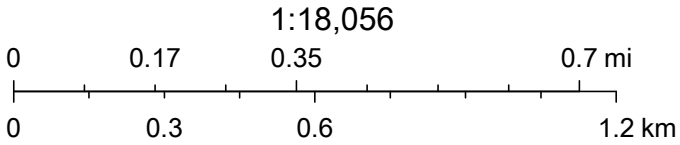
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GIS WATERS PODs

- Active
- OSE District Boundary

New Mexico State Trust Lands

- Both Estates
- SiteBoundaries

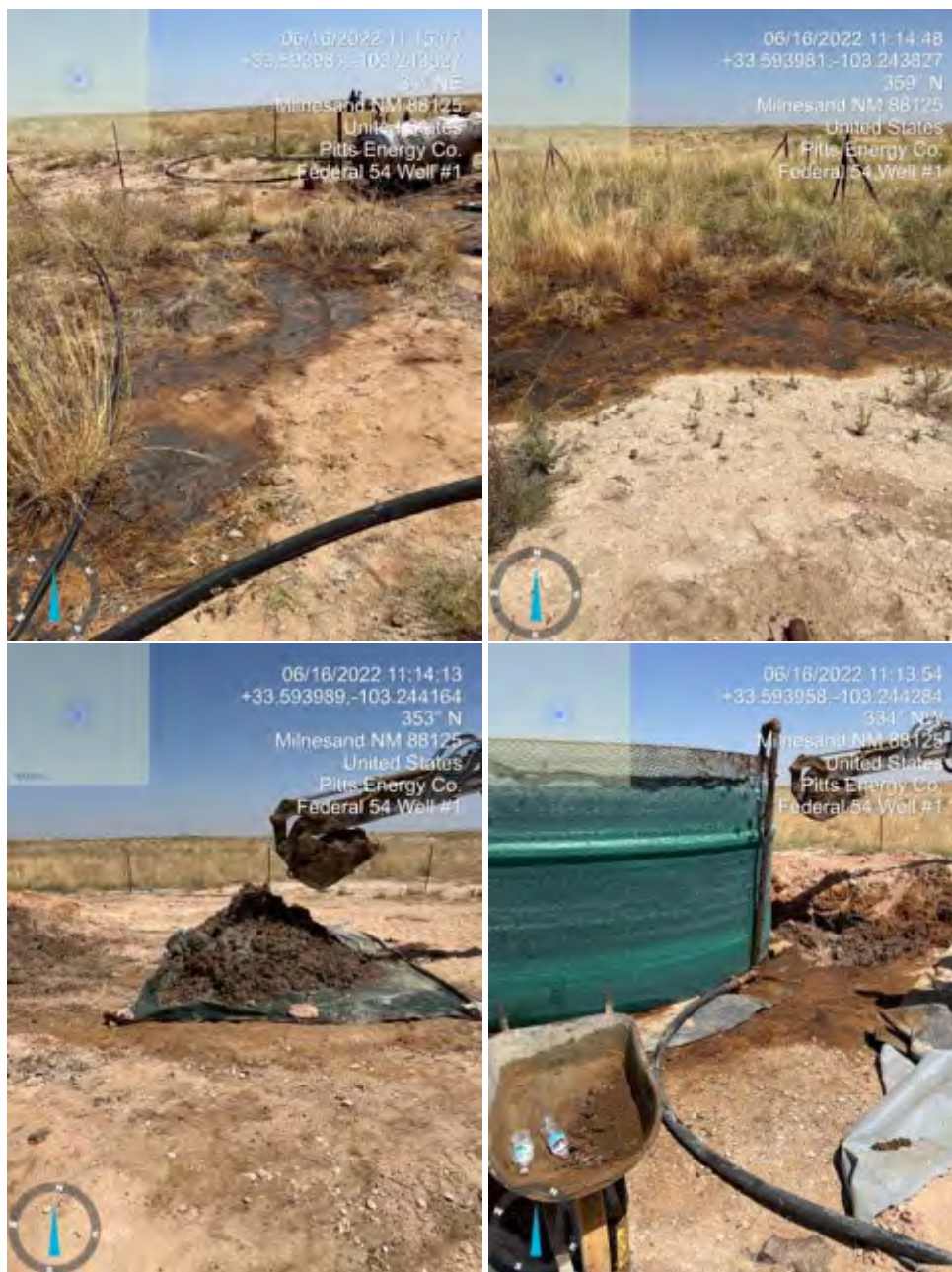


Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

PITTS ENERGY

FEDERAL 54 BATTERY INITIAL SITE PHOTOS










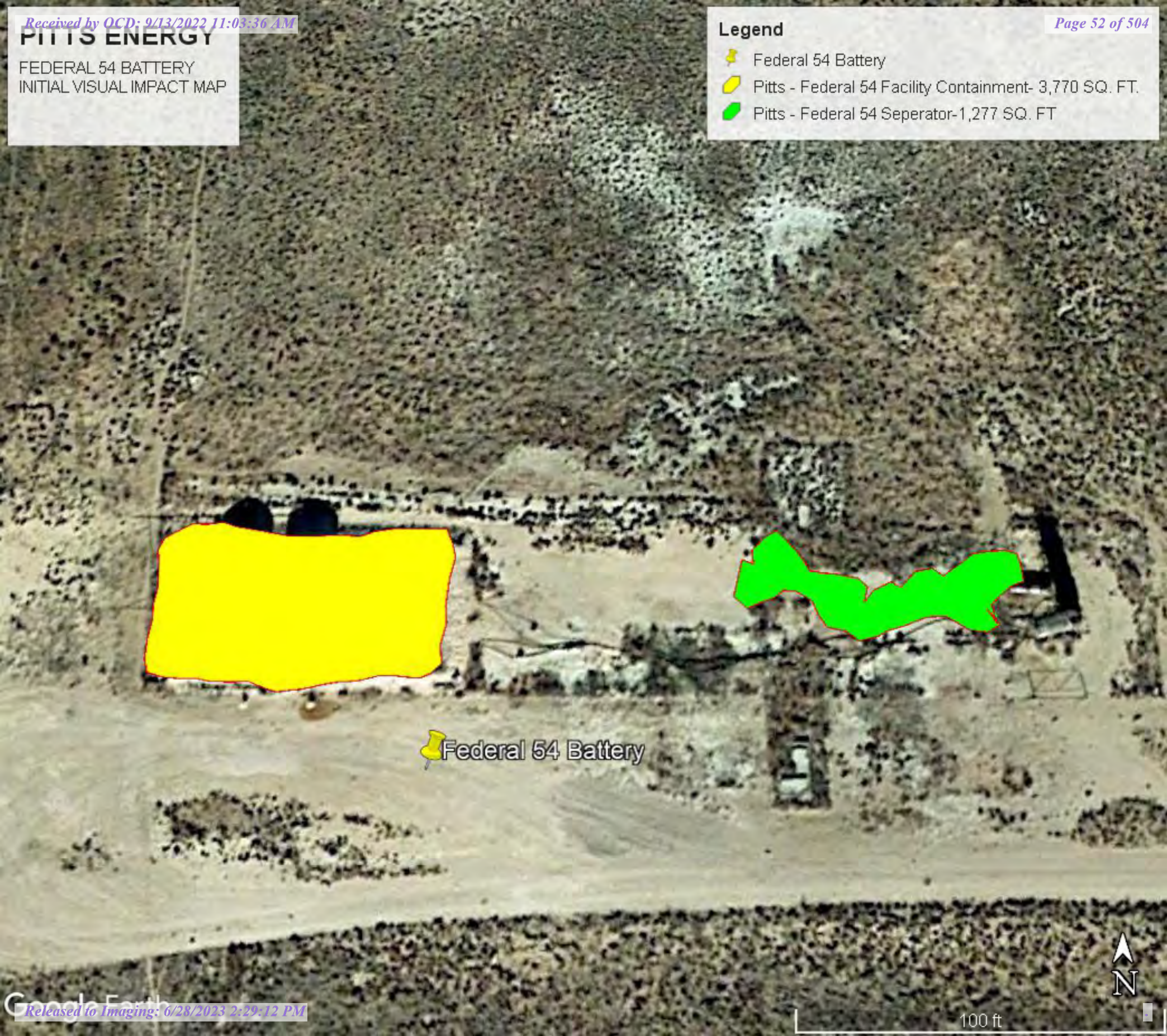



PITTS ENERGY

FEDERAL 54 BATTERY
INITIAL VISUAL IMPACT MAP

Legend

-  Federal 54 Battery
-  Pitts - Federal 54 Facility Containment- 3,770 SQ. FT.
-  Pitts - Federal 54 Seperator-1,277 SQ. FT





 Federal 54 Battery




PITTS ENERGY

FEDERAL 54
FINAL IMPACT MAP

Legend

-  Federal 54 Battery
-  FINAL IMPACT AREA: 10,680 SQ. FT.



 Federal 54 Battery



Company Name: PITTS Location Name: FEDERAL 54 BATTERY Release Date: UNKNOWN

BATTERY DELINEATION SAMPLE DATA

SP ID	Depth	Tit	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	SURF	3600	L	ND	ND	ND	ND	ND	3520		
	2	240	H								
	4	100	H	ND	ND	222	180	402	104		
	5	20	H	ND	ND	40.9	58.3	99.2	ND		
	6	80	H								
	8	80	H								
	10	160	H	ND	ND	305	ND	305	149		
	12	80	L								
	14	20	L	ND	ND	ND	ND	ND	ND		
SP2	2	400	H	0.154	ND	3790	1140	4930	363		PRE-EXCAVATED
	4	960	H								
	5	180	L	ND	ND	ND	ND	ND	152		
	6	880	H								
	8	640	H								
	10	140	L	ND	ND	ND	ND	ND	128		
	12	1440	H								
	14	1920	H								
	15	800	H	ND	ND	242	75	317	775		
	16	1360	H								
	18	720	L								
	20	3080	L	ND	ND	60.3	ND	60.3	3430		
	22	1040	H								
	24	2720	H								
	26	4800	L	ND	ND	ND	ND	ND	4660		
	28	1960	L								
	30	3360	L	ND	ND	ND	ND	ND	3490		
	32	1120	L								
	34	1120	L								
	35	800	H	ND	ND	190	117	307	867		
	38	400	H	ND	ND	116	ND	116	355		

	40	400	L								
	42	400	L	ND	ND	ND	ND	ND	346		
SP3	SURF	80	H	ND	ND	88.4	64.9	153.3	50.1		
	1	80	H								
	2	80	H	ND	ND	182	177	359	21.9		
	4	840	H								
	5	180	L	ND	ND	31.3	ND	31.3	ND		
	6	160	H								
	8	160	H								
	10	240	H	27.2	223	8130	2090	10443	207		
	12	240	H								
	14	880	H								
	16	560	H	18.1	ND	7860	1570	9430	591		
	18	720	H								
	20	640	H	16.8	ND	8710	1780	10490	720		
	22	320	H								
	24	480	H								
	26	320	H	6.67	ND	7450	1420	8870	542		
	28	400	H								
	30	320	H	8.14	ND	3400	730	4130	270		
	32	320	H								
	34	320	H								
	36	200	H	11	156	5100	ND	5256	159		
	38	300	H								
	40	220	H	ND	ND	484	146	630	115		
	42	200	L								
	44	100	L	ND	ND	ND	ND	ND	ND		
SP4	SURF	80	H	9.53	229	16700	5910	22839	53.3		
	2	160	H								
	4	1000	H								
	6	860	H								
	8	1540	H								

	10	200	L	ND	ND	34.7	ND	34.7	117		
	12	800	H								
	14	200	H	ND	ND	2080	913	2993	128		
	16	560	L								
	18	516	L	ND	ND	ND	ND	ND	516		

SP5	SURF	400	H	ND	ND	64.7	77.5	142.2	249		
	2	1280	H								
	4	640	H								
	5	100	H	0.423	ND	3110	1060	4170	70		
	6	1880	H								
	8	2000	H								
	10	960	L	ND	ND	35.5	ND	35.5	ND		
	12	1880	L								
	14	1280	H								
	15	600	L	ND	ND	83.7	ND	83.7	526		
	16	1680	H								
	18	1480	H								
	20	100	L	ND	ND	ND	ND	ND	90.9		
	22	1000	H								
	24	1240	H								
	26	1000	H								
	28	1280	H								
	30	1480	H								
	32	1200	H								
	34	400	H								
	36	200	H	ND	ND	484	146	630	115		
	38	400	L								
	40	360	L	ND	ND	ND	ND	ND	353		

SP6	SURF	>4000	H	38.8	491	8410	2070	10971	4650		PRE-EXCAVATED
	4	480	H								
	5	60	H	ND	ND	1310	583	1893	49		
	6	560	H								

	8	640	H								
	10	800	H	9.17	129	6570	1540	8239	452		
	12	1280	H								
	14	2240	H								
	15	60	H	16.4	138	7610	1740	9488	59.9		
	16	4000	H								
	18	3360	H								
	20	3280	H	10.8	ND	4760	910	5670	2240		
	22	2960	H								
	24	1760	H								
	26	2400	H	3.34	ND	2500	509	3009	1440		
	28	2800	H								
	30	2560	H	0.479	ND	2030	510	2540	3680		
	32	1680	H								
	34	3280	H	0.175	ND	1710	478	2188	4060		
	36	1200	H								
	38	880	H								
	39	480	L								
	40	480	L	ND	ND	ND	ND	ND	200		

SP7	SURF	4080	H	ND	ND	1200	1280	2480	3710		
	2	1560	H								
	4	1520	H								
	6	160	L								
	8	80	M	ND	ND	ND	ND	ND	59.3	PID DETECTED BTEX/TPH DURING FIELD TESTING	
	10	600	L								
	12	640	L								
	14	620	L								
	16	210	L								
	18	100	L	ND	ND	ND	ND	ND	107		

SP8	SURF	400	H	0.169	ND	985	664	1649	344		
	2	320	H								
	4	240	H								

	6	160	H								
	8	160	H								
	10	160	H								
	12	320	H								
	14	520	L								
	16	480	L	ND	ND	ND	ND	ND	506		

SP9	SURF	200	H	ND	ND	493	625	1118	213		
	2	400	H								
	4	480	H								
	6	720	H								
	8	800	H								
	10	720	H								
	12	1000	H								
	14	2000	H								
	16	1600	H								
	17	520	L								
	18	320	L	ND	ND	ND	ND	ND	318		

SW1	SURF	800	H	ND	ND	498	274	772	766		
	1'	760	H								
	2'	640	H								
	3'	600	L								
	4'	540	L	ND	ND	ND	ND	ND	550		

SW2	SURF	1200	H	ND	ND	395	221	616	1090		
	1'	1000	H								
	2'	880	H								
	3'	600	L								
	4'	600	L	ND	ND	ND	ND	ND	618		

SW3	SURF	1200	H	ND	ND	430	238	668	997		
	1'	1060	H								
	2'	840	H								

	3'	420	L								
	4'	300	L	ND	ND	ND	ND	ND	286		
SW4	SURF	1100	H	ND	ND	437	236	673	1030		
	1'	800	L								
	2'	640	L								
	3'	480	L								
	4'	280	L	ND	ND	ND	ND	ND	288		
SW5	SURF	1000	H	ND	ND	683	376	1059	937		
	1'	940	H								
	2'	720	L								
	3'	540	L								
	4'	400	L	ND	ND	ND	ND	ND	383		
SW6	SURF	800	H	ND	ND	512	308	820	757		
	1'	1000	H								
	2'	620	H								
	3'	500	L								
	4'	400	L	ND	ND	ND	ND	ND	398		
SW7	SURF	946	H	ND	ND	872	503	1375	946		
	1'	1200	H								
	2'	860	L								
	3'	540	L								
	4'	400	L	ND	ND	ND	ND	ND	407		
SW8	SURF	1600	H	ND	ND	393	288	681	1440		
	1'	1180	H								
	2'	760	L								
	3'	500	L								
	4'	400	L	ND	ND	ND	ND	ND	400		

Company Name: **PITTS** Location Name: **FEDERAL 54 SEPARATOR** Release Date: **UNKNOWN**

SEPARTOR AREA DELINEATION SAMPLE DATA

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	SURF	40	H	30.9	446	20800	4460	25706	ND		
	1	160	H								
	2	80	H								
	3	80	H								
	4	80	H								
	5	80	H	ND	ND	1440	ND	1440	56.6		
	6	240	H								
	8	320	H								
	10	160	H	ND	ND	1730	542	2272	ND		
	12	400	H								
	14	1080	H								
	16	1310	H	3.85	54.9	5500	622	6176.9	1250		
	18	1100	H								
	20	640	H	0.0582	ND	349	234	583	620		
	22	480	H								
	24	640	H	ND	ND	54.9	90	144.9	625		
	26	400	H								
	28	320	H	ND	ND	438	248	686	280		
	30	300	L								
	32	140	L	ND	ND	ND	ND	ND	119		

SP2	SURF	1400	H	126	1320	37200	7940	46460	1420		
	2	1160	H								
	4	160	H								
	5	100	H	ND	ND	1050	356	1406	81.1		
	6	240	H								
	8	1320	H								
	10	1000	H	ND	ND	4120	1150	5270	961		
	12	1240	H								
	14	320	H								
	16	300	H	ND	ND	793	234	1027	301		

	18	720	H								
	20	1600	H	0.074	ND	930	184	1114	1560		
	22	1120	H								
	24	560	H								
	26	560	H	ND	ND	81.1	ND	81.1	577		
	28	400	L								
	30	140	L	ND	ND	ND	ND	ND	130		

SP3	SURF	1560	H	1.45	26.2	10800	6010	16836.2	1500		
	2	800	H								
	4	400	H								
	6	400	H	ND	ND	ND	ND	ND	472		

SP4	SURF	80	H	2.26	ND	25700	7620	33320	ND		
	2	160	H								
	4	160	H								
	5	300	H	ND	ND	2350	977	3327	229		
	6	400	H								
	8	560	H								
	10	300	H	ND	ND	596	147	743	291		
	12	240	H								
	14	240	H								
	16	240	H	ND	ND	299	62	361	262		
	18	240	H								
	20	800	L	ND	ND	55.7	ND	55.7	822		
	22	800	L	ND	ND	27.9	ND	27.9	803		
	24	400	L								
	26	140	L	ND	ND	ND	ND	ND	144		

SP5	SURF	3360	H	ND	ND	1200	1280	2480	3710		
	2	1120	H								
	4	1180	H								
	5	400	H	ND	ND	ND	ND	ND	354		
	6	560	H								

	8	800	H								
	10	200	H	ND	ND	ND	ND	ND	207		
	12	1220	H								
	14	800	H								
	16	1000	H								
	18	640	H								
	20	1200	H								
	22	880	H								
	24	1600	H								
	26	1840	L	ND	ND	ND	ND	ND	1780		
	28	1600	H								
	30	1800	H	ND	ND	92.5	ND	92.5	1720		
	32	1600	H								
	34	400	H								
	36	220	H	ND	ND	228	116	344	196		
	38	340	H								
	40	300	H	ND	ND	429	237	666	276		
	42	460	L								
	44	400	L	ND	ND	ND	ND	ND	414		

SP6	SURF	400	H	0.169	ND	985	664	1649	344		
	2	1040	H								
	4	1800	H								
	6	1280	H								
	8	640	H								
	10	560	H								
	12	560	H	ND	ND	467	282	749	583		
	14	680	L								
	16	640	L								
	18	600	L	ND	ND	ND	ND	ND	613		

SP7	SURF	320	H								
	2	160	H								
	4	60	H	ND	ND	103	91.6	194.6	58.5		

	6	1000	H								
	8	1000	H								
	10	920	H	ND	ND	ND	ND	ND	895		
	12	1000	L								
	14	820	L								
	16	440	L								
	18	100	L	ND	ND	ND	ND	ND	107		
SP8	SURF	600	H	1.26	29.1	5040	1340	6409.1	497		
	2	720	H								
	4	720	H								
	6	640	H								
	8	800	H								
	10	960	H								
	12	1280	H								
	14	1360	H								
	16	1120	H								
	18	2080	H								
	20	1520	H								
	22	1520	H								
	24	720	H								
	26	720	H								
	28	880	H								
	30	560	H								
	32	560	H								
	34	540	H	ND	ND	ND	ND	ND	537		
SP9	SURF	300	H	1.39	32.1	3600	746	4378.1	251		
	1'	1200	H								
	2'	1020	H								
	3'	600	H								
	4'	600	H	ND	ND	ND	ND	ND	684		NEEDS FURTHER DELINEATION
SW1	SURF	60	H	ND	ND	172	112	284	64.1		

	1	80	H								
	2	60	H	ND	ND	194	131	325	64.9		
	3	60	H								
	4	60	H	ND	ND	907	1010	1917	51.4		NEEDS FURTHER DELINEATION
SW2	SURF	20	H	ND	ND	171	185	356	25.5		
	1	20	H								
	2	ND	H	ND	ND	50	69.3	119.3	ND		
	3	60	H								
	4	60	H	ND	ND	1020	1450	2470	53.4		NEEDS FURTHER DELINEATION
SW3	SURF	160	H	ND	ND	132	156	288	174		
	1	80	H								
	2	20	H	ND	ND	45	57.2	102.2	ND		
	3	400	L								
	4	340	L	ND	ND	ND	ND	ND	356		
SW4	SURF	320	H	ND	ND	290	321	611	312		
	1	520	H								
	2	400	H	ND	ND	136	133	269	422		
	3	480	L								
	4	480	L	ND	ND	ND	ND	ND	484		
SW5	SURF	2000	H	ND	ND	205	117	322	1800		
	1	560	H								
	2	560	H	ND	ND	85.8	ND	85.8	547		
	3	200	L								
	4	40	L	ND	ND	106	92.1	198.1	ND		NEEDS FURTHER DELINEATION
SW6	SURF	400	H	ND	ND	335	384	719	384		
	1	160	H								
	2	20	L	ND	ND	ND	ND	ND	ND		
	3	400	L								
	4	400	L	ND	ND	ND	ND	ND	402		

SW7	SURF	40	H	ND	ND	293	388	681	28.9		
	1	100	H								
	2	100	H	ND	ND	206	230	436	96		
	3	60	L								
	4	20	L	ND	ND	113	132	245	ND		NEEDS FURTHER DELINEATION

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts

Project Name: Federal 54 Well #1

Work Order: E206144

Job Number: 20046-0001

Received: 6/20/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/22/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/22/22



Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707

Project Name: Federal 54 Well #1
Workorder: E206144
Date Received: 6/20/2022 8:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/20/2022 8:15:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Sample Summary

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	06/22/22 15:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 - Surf BTY	E206144-01A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP2 - Surf BTY	E206144-02A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP3 - Surf BTY	E206144-03A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP4 - Surf BTY	E206144-04A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP5 - Surf BTY	E206144-05A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP6 - Surf BTY	E206144-06A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP1 - Surf Sep	E206144-07A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP2 - Surf Sep	E206144-08A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP3 - Surf Sep	E206144-09A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
SP4 - Surf Sep	E206144-10A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.



Sample Data

Pitts 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 6/22/2022 3:53:15PM
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SP1 - Surf BTY

E206144-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	ND	0.0250	1	06/20/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/20/22	06/20/22	
Toluene	ND	0.0250	1	06/20/22	06/20/22	
o-Xylene	ND	0.0250	1	06/20/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/20/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	93.2 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	104 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	93.2 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	104 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/22	06/21/22	
Surrogate: n-Nonane	92.6 %	50-200		06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	3520	40.0	2	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP2 - Surf BTY

E206144-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	ND	0.0250	1	06/20/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/20/22	06/20/22	
Toluene	ND	0.0250	1	06/20/22	06/20/22	
o-Xylene	0.0990	0.0250	1	06/20/22	06/20/22	
p,m-Xylene	0.0545	0.0500	1	06/20/22	06/20/22	
Total Xylenes	0.154	0.0250	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	96.1 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	105 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	96.1 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	105 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	3790	25.0	1	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	1140	50.0	1	06/20/22	06/21/22	
Surrogate: n-Nonane	104 %	50-200		06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	363	20.0	1	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP3 - Surf BTY

E206144-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	ND	0.0250	1	06/20/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/20/22	06/20/22	
Toluene	ND	0.0250	1	06/20/22	06/20/22	
o-Xylene	ND	0.0250	1	06/20/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/20/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	105 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	105 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	88.4	25.0	1	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	64.9	50.0	1	06/20/22	06/21/22	
Surrogate: n-Nonane	98.5 %	50-200		06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	50.1	20.0	1	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP4 - Surf BTY

E206144-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	ND	0.250	10	06/20/22	06/20/22	
Ethylbenzene	0.950	0.250	10	06/20/22	06/20/22	
Toluene	0.875	0.250	10	06/20/22	06/20/22	
o-Xylene	4.43	0.250	10	06/20/22	06/20/22	
p,m-Xylene	5.11	0.500	10	06/20/22	06/20/22	
Total Xylenes	9.53	0.250	10	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene		100 %	70-130	06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	06/20/22	06/20/22	
Surrogate: Toluene-d8		104 %	70-130	06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	229	200	10	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene		100 %	70-130	06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	06/20/22	06/20/22	
Surrogate: Toluene-d8		104 %	70-130	06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	16700	250	10	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	5910	500	10	06/20/22	06/21/22	
Surrogate: n-Nonane		154 %	50-200	06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	53.3	20.0	1	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP5 - Surf BTY

E206144-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	0.0290	0.0250	1	06/20/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/20/22	06/20/22	
Toluene	0.0405	0.0250	1	06/20/22	06/20/22	
o-Xylene	ND	0.0250	1	06/20/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/20/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	97.3 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	103 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	97.3 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	103 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	64.7	25.0	1	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	77.5	50.0	1	06/20/22	06/21/22	
Surrogate: n-Nonane	94.3 %	50-200		06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	249	20.0	1	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP6 - Surf BTY

E206144-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	5.88	0.250	10	06/20/22	06/20/22	
Ethylbenzene	6.36	0.250	10	06/20/22	06/20/22	
Toluene	19.6	0.250	10	06/20/22	06/20/22	
o-Xylene	13.0	0.250	10	06/20/22	06/20/22	
p,m-Xylene	25.7	0.500	10	06/20/22	06/20/22	
Total Xylenes	38.8	0.250	10	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	100 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	105 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	491	200	10	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	100 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	105 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	8410	25.0	1	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	2070	50.0	1	06/20/22	06/21/22	
Surrogate: n-Nonane	88.0 %	50-200		06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	4650	40.0	2	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP1 - Surf Sep

E206144-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	0.0430	0.0250	1	06/20/22	06/20/22	
Ethylbenzene	1.02	0.0250	1	06/20/22	06/20/22	
Toluene	0.649	0.0250	1	06/20/22	06/20/22	
o-Xylene	14.4	0.250	10	06/20/22	06/21/22	
p,m-Xylene	16.5	0.500	10	06/20/22	06/21/22	
Total Xylenes	30.9	0.250	10	06/20/22	06/21/22	
Surrogate: Bromofluorobenzene	72.0 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	125 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	446	20.0	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene	72.0 %	70-130		06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		06/20/22	06/20/22	
Surrogate: Toluene-d8	125 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	20800	250	10	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	4460	500	10	06/20/22	06/21/22	
Surrogate: n-Nonane	348 %	50-200		06/20/22	06/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	ND	20.0	1	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP2 - Surf Sep

E206144-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	6.51	0.250	10	06/20/22	06/22/22	
Ethylbenzene	19.5	0.250	10	06/20/22	06/22/22	
Toluene	48.3	0.250	10	06/20/22	06/22/22	
o-Xylene	46.9	0.250	10	06/20/22	06/22/22	
p,m-Xylene	79.1	0.500	10	06/20/22	06/22/22	
Total Xylenes	126	0.250	10	06/20/22	06/22/22	
Surrogate: Bromofluorobenzene	104 %	70-130		06/20/22	06/22/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		06/20/22	06/22/22	
Surrogate: Toluene-d8	105 %	70-130		06/20/22	06/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	1320	200	10	06/20/22	06/22/22	
Surrogate: Bromofluorobenzene	104 %	70-130		06/20/22	06/22/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		06/20/22	06/22/22	
Surrogate: Toluene-d8	105 %	70-130		06/20/22	06/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	37200	250	10	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	7940	500	10	06/20/22	06/21/22	
Surrogate: n-Nonane	180 %	50-200		06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	1420	20.0	1	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP3 - Surf Sep

E206144-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	0.0390	0.0250	1	06/20/22	06/20/22	
Ethylbenzene	0.172	0.0250	1	06/20/22	06/20/22	
Toluene	0.326	0.0250	1	06/20/22	06/20/22	
o-Xylene	0.612	0.0250	1	06/20/22	06/20/22	
p,m-Xylene	0.842	0.0500	1	06/20/22	06/20/22	
Total Xylenes	1.45	0.0250	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene		101 %	70-130	06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	06/20/22	06/20/22	
Surrogate: Toluene-d8		98.5 %	70-130	06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	26.2	20.0	1	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene		101 %	70-130	06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	06/20/22	06/20/22	
Surrogate: Toluene-d8		98.5 %	70-130	06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	10800	500	20	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	6010	1000	20	06/20/22	06/21/22	
Surrogate: n-Nonane		114 %	50-200	06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	1500	20.0	1	06/20/22	06/20/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/22/2022 3:53:15PM

SP4 - Surf Sep

E206144-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Benzene	ND	0.250	10	06/20/22	06/20/22	
Ethylbenzene	0.330	0.250	10	06/20/22	06/20/22	
Toluene	0.435	0.250	10	06/20/22	06/20/22	
o-Xylene	1.23	0.250	10	06/20/22	06/20/22	
p,m-Xylene	1.03	0.500	10	06/20/22	06/20/22	
Total Xylenes	2.26	0.250	10	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene		100 %	70-130	06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	06/20/22	06/20/22	
Surrogate: Toluene-d8		93.9 %	70-130	06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226002
Gasoline Range Organics (C6-C10)	ND	200	10	06/20/22	06/20/22	
Surrogate: Bromofluorobenzene		100 %	70-130	06/20/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	06/20/22	06/20/22	
Surrogate: Toluene-d8		93.9 %	70-130	06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226004
Diesel Range Organics (C10-C28)	25700	2500	100	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	7620	5000	100	06/20/22	06/21/22	
Surrogate: n-Nonane		144 %	50-200	06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226010
Chloride	ND	20.0	1	06/20/22	06/20/22	



QC Summary Data

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	6/22/2022 3:53:15PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2226002-BLK1)

Prepared: 06/20/22 Analyzed: 06/20/22

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	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

LCS (2226002-BS1)

Prepared: 06/20/22 Analyzed: 06/20/22

Benzene	2.43	0.0250	2.50		97.3	70-130			
Ethylbenzene	2.40	0.0250	2.50		96.0	70-130			
Toluene	2.38	0.0250	2.50		95.1	70-130			
o-Xylene	2.49	0.0250	2.50		99.5	70-130			
p,m-Xylene	4.87	0.0500	5.00		97.4	70-130			
Total Xylenes	7.36	0.0250	7.50		98.1	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS Dup (2226002-BSD1)

Prepared: 06/20/22 Analyzed: 06/20/22

Benzene	2.37	0.0250	2.50		94.9	70-130	2.58	23	
Ethylbenzene	2.37	0.0250	2.50		94.7	70-130	1.32	27	
Toluene	2.34	0.0250	2.50		93.7	70-130	1.50	24	
o-Xylene	2.46	0.0250	2.50		98.3	70-130	1.27	27	
p,m-Xylene	4.79	0.0500	5.00		95.9	70-130	1.59	27	
Total Xylenes	7.25	0.0250	7.50		96.7	70-130	1.49	27	
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			



QC Summary Data

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	6/22/2022 3:53:15PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226002-BLK1)

Prepared: 06/20/22 Analyzed: 06/20/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

LCS (2226002-BS2)

Prepared: 06/20/22 Analyzed: 06/20/22

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

LCS Dup (2226002-BSD2)

Prepared: 06/20/22 Analyzed: 06/20/22

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130	3.21	20	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			



QC Summary Data

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	6/22/2022 3:53:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226004-BLK1)

Prepared: 06/20/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.1		50.0		84.3	50-200			

LCS (2226004-BS1)

Prepared: 06/20/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	492	25.0	500		98.4	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2226004-MS1)

Source: E206143-06

Prepared: 06/20/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	488	25.0	500	ND	97.7	38-132			
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			

Matrix Spike Dup (2226004-MSD1)

Source: E206143-06

Prepared: 06/20/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	494	25.0	500	ND	98.9	38-132	1.22	20	
Surrogate: n-Nonane	49.4		50.0		98.7	50-200			



QC Summary Data

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	6/22/2022 3:53:15PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226010-BLK1)

Prepared: 06/20/22 Analyzed: 06/20/22

Chloride ND 20.0

LCS (2226010-BS1)

Prepared: 06/20/22 Analyzed: 06/20/22

Chloride 253 20.0 250 101 90-110

Matrix Spike (2226010-MS1)

Source: E206144-01

Prepared: 06/20/22 Analyzed: 06/20/22

Chloride 3520 40.0 250 3520 1.50 80-120 M4

Matrix Spike Dup (2226010-MSD1)

Source: E206144-01

Prepared: 06/20/22 Analyzed: 06/20/22

Chloride 3490 40.0 250 3520 NR 80-120 1.00 20 M4

QC Summary Report Comment:

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



Definitions and Notes

Pitts	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	06/22/22 15:53

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.



Project Information

Chain of Custody

Page 1 of 1

Client: <u>Pitts</u>					Bill To					Lab Use Only					TAT				EPA Program																							
Project: <u>Federal 54 Well #1</u>					Attention: <u>ESS</u>					Lab WO# <u>E206144</u>					Job Number <u>20046-0001</u>				1D	2D	3D	Standard	CWA	SDWA																		
Project Manager:					Address: <u>2724 NW County Rd</u>					Analysis and Method									RCRA																							
Address:					City, State, Zip <u>Hobbs, NM 88240</u>																																					
City, State, Zip					Phone: <u>575-390-6397</u>					DRO/DRO by 8015					GRO/DRO by 8015				BTEX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				BGDOC NM				BGDOC TX			
Phone:					Email: <u>Natalie Caladellen</u>																																					
mail:																																										
Report due by:																																										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																																				
	6-16	S	1	SP1-Surf BTY	1																																					
				SP2-Surf BTY	2																																					
				SP3-Surf BTY	3																																					
				SP4-Surf BTY	4																																					
				SP5-Surf BTY	5																																					
				SP6-Surf BTY	6																																					
				SP1-Surf Sep	7																																					
				SP2-Surf Sep	8																																					
				SP3-Surf Sep	9																																					
				SP4-Surf Sep	10																																					
Additional Instructions:																																										
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																																										
Sampled by: <u>Jared Carpenter</u>																																										
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.																																										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only																														
<u>[Signature]</u>		6-16-22				<u>[Signature]</u>		6-17-22		2:30		Received on ice: <u>(Y)</u> N																														
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1																														
<u>[Signature]</u>		6-17-22		4:15		<u>[Signature]</u>		6/20/22		8:15		T2																														
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T3																														
<u>[Signature]</u>												AVG Temp °C <u>4</u>																														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																										

Envirotech Analytical Laboratory

Printed: 6/20/2022 12:09:49PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts	Date Received:	06/20/22 08:15	Work Order ID:	E206144
Phone:	-	Date Logged In:	06/20/22 08:35	Logged In By:	Caitlin Christian
Email:		Due Date:	06/21/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts

Project Name: Federal 54 Well #1

Work Order: E206164

Job Number: 20046-0001

Received: 6/23/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/24/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/24/22



Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707

Project Name: Federal 54 Well #1
Workorder: E206164
Date Received: 6/23/2022 10:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/23/2022 10:15:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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Sample Summary

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	06/24/22 17:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 - 4' - BTY	E206164-01A	Soil	06/21/22	06/23/22	Glass Jar, 4 oz.
SP3 - 2' - BTY	E206164-02A	Soil	06/21/22	06/23/22	Glass Jar, 4 oz.
SP4 - 10' - BTY	E206164-03A	Soil	06/21/22	06/23/22	Glass Jar, 4 oz.



Sample Data

Pitts 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 6/24/2022 5:08:42PM
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SP1 - 4' - BTY

E206164-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226077
Benzene	ND	0.0250	1	06/23/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/23/22	
Toluene	ND	0.0250	1	06/23/22	06/23/22	
o-Xylene	ND	0.0250	1	06/23/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/23/22	
Surrogate: Bromofluorobenzene	97.0 %	70-130		06/23/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/23/22	06/23/22	
Surrogate: Toluene-d8	95.6 %	70-130		06/23/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/23/22	
Surrogate: Bromofluorobenzene	97.0 %	70-130		06/23/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/23/22	06/23/22	
Surrogate: Toluene-d8	95.6 %	70-130		06/23/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226080
Diesel Range Organics (C10-C28)	222	50.0	2	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	180	100	2	06/23/22	06/24/22	
Surrogate: n-Nonane	125 %	50-200		06/23/22	06/24/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226075
Chloride	104	20.0	1	06/23/22	06/24/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/24/2022 5:08:42PM

SP3 - 2' - BTY

E206164-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226077
Benzene	ND	0.0250	1	06/23/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/23/22	
Toluene	ND	0.0250	1	06/23/22	06/23/22	
o-Xylene	ND	0.0250	1	06/23/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/23/22	
Surrogate: Bromofluorobenzene	94.7 %	70-130		06/23/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		06/23/22	06/23/22	
Surrogate: Toluene-d8	95.7 %	70-130		06/23/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/23/22	
Surrogate: Bromofluorobenzene	94.7 %	70-130		06/23/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		06/23/22	06/23/22	
Surrogate: Toluene-d8	95.7 %	70-130		06/23/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226080
Diesel Range Organics (C10-C28)	182	50.0	2	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	177	100	2	06/23/22	06/24/22	
Surrogate: n-Nonane	122 %	50-200		06/23/22	06/24/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226075
Chloride	21.9	20.0	1	06/23/22	06/24/22	



Sample Data

Pitts
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
6/24/2022 5:08:42PM

SP4 - 10' - BTY

E206164-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226077
Benzene	ND	0.0250	1	06/23/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/23/22	
Toluene	ND	0.0250	1	06/23/22	06/23/22	
o-Xylene	ND	0.0250	1	06/23/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/23/22	
Surrogate: Bromofluorobenzene	94.7 %	70-130		06/23/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/23/22	06/23/22	
Surrogate: Toluene-d8	95.7 %	70-130		06/23/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/23/22	
Surrogate: Bromofluorobenzene	94.7 %	70-130		06/23/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/23/22	06/23/22	
Surrogate: Toluene-d8	95.7 %	70-130		06/23/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226080
Diesel Range Organics (C10-C28)	34.7	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
Surrogate: n-Nonane	105 %	50-200		06/23/22	06/24/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226075
Chloride	117	20.0	1	06/23/22	06/24/22	



QC Summary Data

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	6/24/2022 5:08:42PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226077-BLK1)

Prepared: 06/23/22 Analyzed: 06/24/22

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	0.485		0.500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			

LCS (2226077-BS1)

Prepared: 06/23/22 Analyzed: 06/24/22

Benzene	2.28	0.0250	2.50		91.3	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.5	70-130			
Toluene	2.25	0.0250	2.50		90.1	70-130			
o-Xylene	2.38	0.0250	2.50		95.2	70-130			
p,m-Xylene	4.63	0.0500	5.00		92.6	70-130			
Total Xylenes	7.01	0.0250	7.50		93.4	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

LCS Dup (2226077-BSD1)

Prepared: 06/23/22 Analyzed: 06/24/22

Benzene	2.31	0.0250	2.50		92.3	70-130	1.02	23	
Ethylbenzene	2.31	0.0250	2.50		92.5	70-130	1.17	27	
Toluene	2.28	0.0250	2.50		91.0	70-130	1.06	24	
o-Xylene	2.40	0.0250	2.50		95.9	70-130	0.753	27	
p,m-Xylene	4.67	0.0500	5.00		93.5	70-130	0.989	27	
Total Xylenes	7.07	0.0250	7.50		94.3	70-130	0.909	27	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			



QC Summary Data

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	6/24/2022 5:08:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226077-BLK1)

Prepared: 06/23/22 Analyzed: 06/24/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.485		0.500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			

LCS (2226077-BS2)

Prepared: 06/23/22 Analyzed: 06/24/22

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS Dup (2226077-BSD2)

Prepared: 06/23/22 Analyzed: 06/24/22

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.9	70-130	4.50	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	6/24/2022 5:08:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226080-BLK1)

Prepared: 06/23/22 Analyzed: 06/23/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			

LCS (2226080-BS1)

Prepared: 06/23/22 Analyzed: 06/23/22

Diesel Range Organics (C10-C28)	518	25.0	500		104	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

Matrix Spike (2226080-MS1)

Source: E206167-08

Prepared: 06/23/22 Analyzed: 06/23/22

Diesel Range Organics (C10-C28)	508	25.0	500	ND	102	38-132			
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			

Matrix Spike Dup (2226080-MSD1)

Source: E206167-08

Prepared: 06/23/22 Analyzed: 06/23/22

Diesel Range Organics (C10-C28)	538	25.0	500	ND	108	38-132	5.74	20	
Surrogate: n-Nonane	50.0		50.0		100	50-200			



QC Summary Data

Pitts	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	6/24/2022 5:08:42PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226075-BLK1)

Prepared: 06/23/22 Analyzed: 06/24/22

Chloride ND 20.0

LCS (2226075-BS1)

Prepared: 06/23/22 Analyzed: 06/24/22

Chloride 259 20.0 250 104 90-110

Matrix Spike (2226075-MS1)

Source: E206164-01

Prepared: 06/23/22 Analyzed: 06/24/22

Chloride 356 20.0 250 104 101 80-120

Matrix Spike Dup (2226075-MSD1)

Source: E206164-01

Prepared: 06/23/22 Analyzed: 06/24/22

Chloride 361 20.0 250 104 103 80-120 1.32 20

QC Summary Report Comment:

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



Definitions and Notes

Pitts	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	06/24/22 17:08

- 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.





Envirotech Analytical Laboratory

Printed: 6/23/2022 12:01:45PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts	Date Received:	06/23/22 10:15	Work Order ID:	E206164
Phone:	(432) 425-8235	Date Logged In:	06/23/22 08:31	Logged In By:	Caitlin Christian
Email:		Due Date:	06/24/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207069

Job Number: 20046-0001

Received: 7/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/15/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/15/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207069
Date Received: 7/14/2022 2:30:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2022 2:30:00PM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	07/15/22 14:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP6 - 12' - Seperator	E207069-01A	Soil	07/12/22	07/14/22	Glass Jar, 4 oz.
SP7 - 8 - Battery	E207069-02A	Soil	07/12/22	07/14/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2022 2:24:40PM
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SP6 - 12' - Seperator

E207069-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2229067	
Benzene	ND	0.0250	1	07/14/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/14/22	07/15/22	
Toluene	ND	0.0250	1	07/14/22	07/15/22	
o-Xylene	ND	0.0250	1	07/14/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/14/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/14/22	07/15/22	
Surrogate: 4-Bromochlorobenzene-PID	99.4 %	70-130		07/14/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2229067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/22	07/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		07/14/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2229070	
Diesel Range Organics (C10-C28)	467	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	282	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	120 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2229069	
Chloride	583	20.0	1	07/14/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/15/2022 2:24:40PM

SP7 - 8 - Battery

E207069-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229067
Benzene	ND	0.0250	1	07/14/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/14/22	07/15/22	
Toluene	ND	0.0250	1	07/14/22	07/15/22	
o-Xylene	ND	0.0250	1	07/14/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/14/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/14/22	07/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		07/14/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229067
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/22	07/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		07/14/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229070
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229069
Chloride	59.3	20.0	1	07/14/22	07/15/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2022 2:24:40PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229067-BLK1)

Prepared: 07/14/22 Analyzed: 07/15/22

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	7.75		8.00		96.9	70-130			

LCS (2229067-BS1)

Prepared: 07/14/22 Analyzed: 07/15/22

Benzene	4.29	0.0250	5.00		85.8	70-130			
Ethylbenzene	3.89	0.0250	5.00		77.8	70-130			
Toluene	4.16	0.0250	5.00		83.1	70-130			
o-Xylene	4.17	0.0250	5.00		83.4	70-130			
p,m-Xylene	8.04	0.0500	10.0		80.4	70-130			
Total Xylenes	12.2	0.0250	15.0		81.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

LCS Dup (2229067-BSD1)

Prepared: 07/14/22 Analyzed: 07/15/22

Benzene	4.54	0.0250	5.00		90.7	70-130	5.52	20	
Ethylbenzene	4.09	0.0250	5.00		81.7	70-130	4.95	20	
Toluene	4.38	0.0250	5.00		87.7	70-130	5.31	20	
o-Xylene	4.40	0.0250	5.00		87.9	70-130	5.23	20	
p,m-Xylene	8.43	0.0500	10.0		84.3	70-130	4.81	20	
Total Xylenes	12.8	0.0250	15.0		85.5	70-130	4.95	20	
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/15/2022 2:24:40PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229067-BLK1)

Prepared: 07/14/22 Analyzed: 07/15/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

LCS (2229067-BS2)

Prepared: 07/14/22 Analyzed: 07/15/22

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0		83.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

LCS Dup (2229067-BSD2)

Prepared: 07/14/22 Analyzed: 07/15/22

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.9	70-130	4.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/15/2022 2:24:40PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229070-BLK1)

Prepared: 07/14/22 Analyzed: 07/14/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.9		50.0		102	50-200			

LCS (2229070-BS1)

Prepared: 07/14/22 Analyzed: 07/14/22

Diesel Range Organics (C10-C28)	478	25.0	500		95.6	38-132			
Surrogate: <i>n</i> -Nonane	51.6		50.0		103	50-200			

Matrix Spike (2229070-MS1)

Source: E207068-04

Prepared: 07/14/22 Analyzed: 07/14/22

Diesel Range Organics (C10-C28)	498	25.0	500	48.5	89.9	38-132			
Surrogate: <i>n</i> -Nonane	49.2		50.0		98.4	50-200			

Matrix Spike Dup (2229070-MSD1)

Source: E207068-04

Prepared: 07/14/22 Analyzed: 07/14/22

Diesel Range Organics (C10-C28)	497	25.0	500	48.5	89.6	38-132	0.260	20	
Surrogate: <i>n</i> -Nonane	49.9		50.0		99.7	50-200			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/15/2022 2:24:40PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2229069-BLK1)					Prepared: 07/14/22 Analyzed: 07/15/22				
Chloride	ND	20.0							
LCS (2229069-BS1)					Prepared: 07/14/22 Analyzed: 07/15/22				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2229069-BSD1)					Prepared: 07/14/22 Analyzed: 07/15/22				
Chloride	253	20.0	250		101	90-110	0.198	20	

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/15/22 14:24

- 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.



Envirotech Analytical Laboratory

Printed: 7/14/2022 3:58:51PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts	Date Received:	07/14/22 14:30	Work Order ID:	E207069
Phone:	(432) 425-8235	Date Logged In:	07/14/22 08:36	Logged In By:	Caitlin Christian
Email:		Due Date:	07/15/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207074

Job Number: 20046-0001

Received: 7/15/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/18/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/18/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207074
Date Received: 7/15/2022 10:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/15/2022 10:15:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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Sample Summary

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/18/22 19:02
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP5 - Surf - Sep	E207074-01A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.
SP6 - Surf - Sep	E207074-02A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.
SP7 - Surf - Sep	E207074-03A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.
SP8 - Surf - Sep	E207074-04A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.
SP7 - Surf - Bty	E207074-05A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.
SP8 - Surf - Bty	E207074-06A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.
SP9 - Surf - Bty	E207074-07A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.
SP7 - 4' - Sep	E207074-08A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.
SP3 - 6' - Sep	E207074-09A	Soil	07/13/22	07/15/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/18/2022 7:02:37PM
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SP5 - Surf - Sep

E207074-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2229076	
Benzene	ND	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	ND	0.0250	1	07/15/22	07/16/22	
o-Xylene	ND	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/16/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/16/22	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2229076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2229073	
Diesel Range Organics (C10-C28)	1200	125	5	07/15/22	07/16/22	
Oil Range Organics (C28-C36)	1280	250	5	07/15/22	07/16/22	
Surrogate: n-Nonane	119 %	50-200		07/15/22	07/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2229057	
Chloride	3710	40.0	2	07/13/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/18/2022 7:02:37PM

SP6 - Surf -Sep

E207074-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Benzene	ND	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	0.0310	0.0250	1	07/15/22	07/16/22	
o-Xylene	0.0612	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	0.108	0.0500	1	07/15/22	07/16/22	
Total Xylenes	0.169	0.0250	1	07/15/22	07/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.4 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229073
Diesel Range Organics (C10-C28)	985	50.0	2	07/15/22	07/16/22	
Oil Range Organics (C28-C36)	664	100	2	07/15/22	07/16/22	
<i>Surrogate: n-Nonane</i>						
		132 %	50-200	07/15/22	07/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229057
Chloride	344	20.0	1	07/13/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/18/2022 7:02:37PM

SP7 - Surf - Sep

E207074-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Benzene	ND	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	0.0274	0.0250	1	07/15/22	07/16/22	
o-Xylene	ND	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/16/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.3 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229073
Diesel Range Organics (C10-C28)	493	125	5	07/15/22	07/16/22	
Oil Range Organics (C28-C36)	625	250	5	07/15/22	07/16/22	
<i>Surrogate: n-Nonane</i>						
		127 %	50-200	07/15/22	07/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229057
Chloride	213	20.0	1	07/13/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/18/2022 7:02:37PM

SP8 - Surf - Sep

E207074-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Benzene	ND	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	ND	0.0250	1	07/15/22	07/16/22	
o-Xylene	0.0452	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	0.0829	0.0500	1	07/15/22	07/16/22	
Total Xylenes	0.128	0.0250	1	07/15/22	07/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.4 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229073
Diesel Range Organics (C10-C28)	400	125	5	07/15/22	07/16/22	
Oil Range Organics (C28-C36)	482	250	5	07/15/22	07/16/22	
<i>Surrogate: n-Nonane</i>						
		131 %	50-200	07/15/22	07/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229057
Chloride	195	20.0	1	07/13/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/18/2022 7:02:37PM

SP7 - Surf - Bty

E207074-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Benzene	0.0251	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	0.0644	0.0250	1	07/15/22	07/16/22	
o-Xylene	0.785	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	1.24	0.0500	1	07/15/22	07/16/22	
Total Xylenes	2.02	0.0250	1	07/15/22	07/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Gasoline Range Organics (C6-C10)	47.2	20.0	1	07/15/22	07/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.7 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229073
Diesel Range Organics (C10-C28)	4980	125	5	07/15/22	07/18/22	
Oil Range Organics (C28-C36)	1330	250	5	07/15/22	07/18/22	
<i>Surrogate: n-Nonane</i>						
		141 %	50-200	07/15/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229057
Chloride	832	20.0	1	07/13/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/18/2022 7:02:37PM

SP8 - Surf - Bty

E207074-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Benzene	ND	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	0.0305	0.0250	1	07/15/22	07/16/22	
o-Xylene	0.481	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	0.781	0.0500	1	07/15/22	07/16/22	
Total Xylenes	1.26	0.0250	1	07/15/22	07/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Gasoline Range Organics (C6-C10)	29.1	20.0	1	07/15/22	07/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.5 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229073
Diesel Range Organics (C10-C28)	5040	50.0	2	07/15/22	07/18/22	
Oil Range Organics (C28-C36)	1340	100	2	07/15/22	07/18/22	
<i>Surrogate: n-Nonane</i>						
		150 %	50-200	07/15/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229057
Chloride	497	20.0	1	07/13/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/18/2022 7:02:37PM

SP9 - Surf - Bty

E207074-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Benzene	ND	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	0.0452	0.0250	1	07/15/22	07/16/22	
o-Xylene	0.607	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	0.779	0.0500	1	07/15/22	07/16/22	
Total Xylenes	1.39	0.0250	1	07/15/22	07/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Gasoline Range Organics (C6-C10)	32.1	20.0	1	07/15/22	07/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229073
Diesel Range Organics (C10-C28)	3600	125	5	07/15/22	07/18/22	
Oil Range Organics (C28-C36)	746	250	5	07/15/22	07/18/22	
<i>Surrogate: n-Nonane</i>						
		118 %	50-200	07/15/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229057
Chloride	251	20.0	1	07/13/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/18/2022 7:02:37PM

SP7 - 4' - Sep

E207074-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Benzene	ND	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	ND	0.0250	1	07/15/22	07/16/22	
o-Xylene	ND	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/16/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.9 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229073
Diesel Range Organics (C10-C28)	103	25.0	1	07/15/22	07/18/22	
Oil Range Organics (C28-C36)	91.6	50.0	1	07/15/22	07/18/22	
<i>Surrogate: n-Nonane</i>						
		98.8 %	50-200	07/15/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229057
Chloride	58.5	20.0	1	07/13/22	07/15/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/18/2022 7:02:37PM

SP3 - 6' - Sep

E207074-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Benzene	ND	0.0250	1	07/15/22	07/16/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/16/22	
Toluene	ND	0.0250	1	07/15/22	07/16/22	
o-Xylene	ND	0.0250	1	07/15/22	07/16/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/16/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2229076
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.6 %	70-130	07/15/22	07/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229073
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/22	07/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/22	07/16/22	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	07/15/22	07/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229057
Chloride	472	20.0	1	07/13/22	07/15/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/18/2022 7:02:37PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229076-BLK1)

Prepared: 07/15/22 Analyzed: 07/17/22

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	8.00		8.00		100	70-130			

LCS (2229076-BS1)

Prepared: 07/15/22 Analyzed: 07/17/22

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.40	0.0250	5.00		87.9	70-130			
Toluene	4.76	0.0250	5.00		95.1	70-130			
o-Xylene	4.69	0.0250	5.00		93.8	70-130			
p,m-Xylene	9.09	0.0500	10.0		90.9	70-130			
Total Xylenes	13.8	0.0250	15.0		91.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

LCS Dup (2229076-BSD1)

Prepared: 07/15/22 Analyzed: 07/17/22

Benzene	4.99	0.0250	5.00		99.8	70-130	1.58	20	
Ethylbenzene	4.33	0.0250	5.00		86.7	70-130	1.46	20	
Toluene	4.69	0.0250	5.00		93.7	70-130	1.49	20	
o-Xylene	4.62	0.0250	5.00		92.5	70-130	1.46	20	
p,m-Xylene	8.95	0.0500	10.0		89.5	70-130	1.58	20	
Total Xylenes	13.6	0.0250	15.0		90.5	70-130	1.54	20	
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/18/2022 7:02:37PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229076-BLK1)

Prepared: 07/15/22 Analyzed: 07/17/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

LCS (2229076-BS2)

Prepared: 07/15/22 Analyzed: 07/17/22

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS Dup (2229076-BSD2)

Prepared: 07/15/22 Analyzed: 07/17/22

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.4	70-130	1.31	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/18/2022 7:02:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229073-BLK1)

Prepared: 07/15/22 Analyzed: 07/16/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			

LCS (2229073-BS1)

Prepared: 07/15/22 Analyzed: 07/16/22

Diesel Range Organics (C10-C28)	507	25.0	500		101	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			

Matrix Spike (2229073-MS1)

Source: E207074-06

Prepared: 07/15/22 Analyzed: 07/16/22

Diesel Range Organics (C10-C28)	1430	50.0	500	5040	NR	38-132			M4
Surrogate: n-Nonane	68.5		50.0		137	50-200			

Matrix Spike Dup (2229073-MSD1)

Source: E207074-06

Prepared: 07/15/22 Analyzed: 07/16/22

Diesel Range Organics (C10-C28)	1520	50.0	500	5040	NR	38-132	6.01	20	M4
Surrogate: n-Nonane	67.1		50.0		134	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/18/2022 7:02:37PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229057-BLK1)

Prepared: 07/13/22 Analyzed: 07/15/22

Chloride ND 20.0

LCS (2229057-BS1)

Prepared: 07/13/22 Analyzed: 07/15/22

Chloride 252 20.0 250 101 90-110

Matrix Spike (2229057-MS1)

Source: E207055-01

Prepared: 07/13/22 Analyzed: 07/15/22

Chloride 254 20.0 250 ND 101 80-120

Matrix Spike Dup (2229057-MSD1)

Source: E207055-01

Prepared: 07/13/22 Analyzed: 07/15/22

Chloride 257 20.0 250 ND 103 80-120 1.25 20

QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/18/22 19:02

- M4Matrix 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.
- NDAnalyte NOT DETECTED at or above the reporting limit
- NRNot Reported
- RPDRelative Percent Difference
- DNIDid 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.

Released To Imaging: 07/26/2025 2:29:12 PM

Received by OCD: 9/13/2022 11:03:36 AM

Project Information

Chain of Custody

Client: Pitts
Project: Federal 54 well #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ESS
Address: 2724 NW County Rd
City, State, Zip Hobbs NM 88245
Phone: 575 390 6397
Email: Natalie Gladen

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E207074</u>	<u>200410-001</u>		<input checked="" type="checkbox"/>				
Analysis and Method							
RCRA							

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	BGDOC NM	BGDOC TX	State	Remarks
	7/13	S	1	SP5 - Surf - Sep	1							<input checked="" type="checkbox"/>		NM	
				SP6 - Surf - Sep	2									CO	
				SP7 - Surf - Sep	3									UT	
				SP8 - Surf - Sep	4									AZ	
				SP7 - Surf - Bty	5									TX	
				SP8 - Surf - Bty	6										
				SP9 - Surf - Bty	7										
				SP7 - 4' - Sep	8										
				SP3 - 6' - Sep	9										
					10										

Additional Instructions: 7/15/22 CC

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only			
<u>Jordan Pender</u>		7/13/22		2:30		<u>Jordan Pender</u>		7-14-22		2:30		Received on ice: <input checked="" type="checkbox"/> N			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3			
<u>Regina Marsh</u>		7-14-22		4:15		<u>Arthur Chater</u>		7/15/22		10:15					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>			

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 7/15/2022 10:58:46AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts	Date Received:	07/15/22 10:15	Work Order ID:	E207074
Phone:	(432) 425-8235	Date Logged In:	07/15/22 08:21	Logged In By:	Caitlin Christian
Email:		Due Date:	07/18/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207083

Job Number: 20046-0001

Received: 7/18/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/20/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207083
Date Received: 7/18/2022 10:05:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/18/2022 10:05:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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Sample Summary

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	07/20/22 14:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 - 10' - Sep	E207083-01A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP6 - 15' - Bty	E207083-02A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP6 - 10' - Bty	E207083-03A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP6 - 5' - Bty	E207083-04A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 15' - Bty	E207083-05A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 10' - Bty	E207083-06A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 5' - Bty	E207083-07A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP3 - 10' - Bty	E207083-08A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP4 - 5' - Sep	E207083-09A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 10' - Bty	E207083-10A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP1 - 5' - Bty	E207083-11A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP3 - 5' - Bty	E207083-12A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP4 - 10' - Sep	E207083-13A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 5' - Bty	E207083-14A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP1 - 10' - Bty	E207083-15A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 15' - Bty	E207083-16A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 5' - Sep	E207083-17A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 10' - Sep	E207083-18A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP1 - 5' - Sep	E207083-19A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 5' - Sep	E207083-20A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 10' - Sep	E207083-21A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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SP1 - 10' - Sep

E207083-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	101 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	94.6 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	101 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	94.6 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	1730	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	542	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	116 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	ND	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP6 - 15' - Bty

E207083-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	0.571	0.0250	1	07/15/22	07/19/22	
Toluene	0.235	0.0250	1	07/15/22	07/19/22	
o-Xylene	7.19	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	9.23	0.0500	1	07/15/22	07/19/22	
Total Xylenes	16.4	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		106 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		106 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	138	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		106 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		106 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	7610	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	1740	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane		309 %	50-200	07/18/22	07/18/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	59.5	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP6 - 10' - Bty

E207083-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	0.258	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	3.72	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	5.45	0.0500	1	07/15/22	07/19/22	
Total Xylenes	9.17	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		107 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		104 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	129	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		107 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		104 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	6570	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	1540	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane		191 %	50-200	07/18/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	452	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP6 - 5' - Bty

E207083-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		94.7 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		94.7 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	1310	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	583	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane		127 %	50-200	07/18/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	49.0	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 15' - Bty

E207083-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.4 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.4 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	83.7	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		97.9 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	526	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 10' - Bty

E207083-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		94.5 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		94.5 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	35.5	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		90.8 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	ND	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 5' - Bty

E207083-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	0.423	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	0.423	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		98.5 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		98.5 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	3110	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	1060	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane		131 %	50-200	07/18/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	70.0	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP3 - 10' - Bty

E207083-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0500	2	07/15/22	07/19/22	
Ethylbenzene	4.03	0.0500	2	07/15/22	07/19/22	
Toluene	0.304	0.0500	2	07/15/22	07/19/22	
o-Xylene	7.83	0.0500	2	07/15/22	07/19/22	
p,m-Xylene	19.4	0.100	2	07/15/22	07/19/22	
Total Xylenes	27.2	0.0500	2	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	108 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	105 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	223	40.0	2	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	108 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	105 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	8130	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	2090	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane	289 %	50-200		07/18/22	07/18/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	207	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP4 - 5' - Sep

E207083-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.4 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.4 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	2350	250	10	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	977	500	10	07/18/22	07/19/22	
Surrogate: n-Nonane		138 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	229	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 10' - Bty

E207083-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		93.9 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		93.9 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		107 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	128	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP1 - 5' - Bty

E207083-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		93.8 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		93.8 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	40.9	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	58.3	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		127 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	ND	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP3 - 5' - Bty

E207083-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	97.1 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	97.1 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	31.3	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane	97.8 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	ND	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP4 - 10' - Sep

E207083-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	95.7 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	95.7 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	596	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	147	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane	120 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	291	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 5' - Bty

E207083-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.8 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.8 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		94.2 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	152	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP1 - 10' - Bty

E207083-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	95.7 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	95.7 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	305	250	10	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	500	10	07/18/22	07/19/22	
Surrogate: n-Nonane	112 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	149	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 15' - Bty

E207083-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	105 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	105 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	242	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	75.0	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane	113 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	775	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 5' - Sep

E207083-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		105 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		105 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	1050	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	356	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		117 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	81.1	40.0	2	07/18/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 10' - Sep

E207083-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		104 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		104 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	4120	250	10	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	1150	500	10	07/18/22	07/19/22	
Surrogate: n-Nonane		139 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	961	40.0	2	07/18/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP1 - 5' - Sep

E207083-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		102 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		102 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	1440	250	10	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	500	10	07/18/22	07/19/22	
Surrogate: n-Nonane		127 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	56.6	40.0	2	07/18/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 5' - Sep

E207083-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.2 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.2 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		106 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	354	40.0	2	07/18/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 10' - Sep

E207083-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229097
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	94.5 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229097
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	94.5 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane	107 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230005
Chloride	207	40.0	2	07/18/22	07/19/22	



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229096-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

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	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.7	70-130			

LCS (2229096-BS1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.38	0.0250	2.50		95.2	70-130			
Ethylbenzene	2.37	0.0250	2.50		95.0	70-130			
Toluene	2.35	0.0250	2.50		93.8	70-130			
o-Xylene	2.47	0.0250	2.50		98.7	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.4	70-130			
Total Xylenes	7.24	0.0250	7.50		96.5	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.3	70-130			

LCS Dup (2229096-BSD1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.56	0.0250	2.50		102	70-130	7.27	23	
Ethylbenzene	2.54	0.0250	2.50		102	70-130	6.89	27	
Toluene	2.53	0.0250	2.50		101	70-130	7.69	24	
o-Xylene	2.62	0.0250	2.50		105	70-130	5.78	27	
p,m-Xylene	5.07	0.0500	5.00		101	70-130	6.03	27	
Total Xylenes	7.68	0.0250	7.50		102	70-130	5.95	27	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.532		0.500		106	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229097-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

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	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			

LCS (2229097-BS1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.30	0.0250	2.50		92.0	70-130			
Ethylbenzene	2.42	0.0250	2.50		97.0	70-130			
Toluene	2.37	0.0250	2.50		94.7	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	4.93	0.0500	5.00		98.6	70-130			
Total Xylenes	7.44	0.0250	7.50		99.2	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

LCS Dup (2229097-BSD1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.32	0.0250	2.50		92.8	70-130	0.909	23	
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130	0.579	27	
Toluene	2.35	0.0250	2.50		94.2	70-130	0.551	24	
o-Xylene	2.53	0.0250	2.50		101	70-130	0.615	27	
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130	0.417	27	
Total Xylenes	7.44	0.0250	7.50		99.1	70-130	0.0672	27	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229096-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.7	70-130			

LCS (2229096-BS2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.7	70-130			

LCS Dup (2229096-BSD2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.6	70-130	0.682	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229097-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			

LCS (2229097-BS2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

LCS Dup (2229097-BSD2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.3	70-130	1.95	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230004-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	50-200			

LCS (2230004-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	517	25.0	500		103	38-132			
Surrogate: <i>n</i> -Nonane	54.2		50.0		108	50-200			

Matrix Spike (2230004-MS1)

Source: E207080-04

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	566	25.0	500	ND	113	38-132			
Surrogate: <i>n</i> -Nonane	57.9		50.0		116	50-200			

Matrix Spike Dup (2230004-MSD1)

Source: E207080-04

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	573	25.0	500	ND	115	38-132	1.29	20	
Surrogate: <i>n</i> -Nonane	58.2		50.0		116	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230016-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			

LCS (2230016-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	510	25.0	500		102	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike (2230016-MS1)

Source: E207083-06

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	592	25.0	500	35.5	111	38-132			
Surrogate: n-Nonane	45.1		50.0		90.2	50-200			

Matrix Spike Dup (2230016-MSD1)

Source: E207083-06

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	576	25.0	500	35.5	108	38-132	2.72	20	
Surrogate: n-Nonane	47.8		50.0		95.7	50-200			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2230005-BLK1)					Prepared: 07/18/22 Analyzed: 07/18/22				
Chloride	ND	20.0							
LCS (2230005-BS1)					Prepared: 07/18/22 Analyzed: 07/18/22				
Chloride	240	20.0	250		96.2	90-110			
Matrix Spike (2230005-MS1)					Source: E207073-01		Prepared: 07/18/22 Analyzed: 07/18/22		
Chloride	302	20.0	250	56.8	98.1	80-120			
Matrix Spike Dup (2230005-MSD1)					Source: E207073-01		Prepared: 07/18/22 Analyzed: 07/18/22		
Chloride	303	20.0	250	56.8	98.7	80-120	0.498	20	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230006-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride ND 20.0

LCS (2230006-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 251 20.0 250 101 90-110

Matrix Spike (2230006-MS1)

Source: E207083-01

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 259 40.0 250 ND 103 80-120

Matrix Spike Dup (2230006-MSD1)

Source: E207083-01

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 275 40.0 250 ND 110 80-120 6.23 20

QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/20/22 14:07

- 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.



Project Information

Chain of Custody

Client: <u>Pitts Energy</u>		Bill To		Lab Use Only		TAT		EPA Program							
Project: <u>Federal 54 W2H #1</u>		Attention: <u>ESS</u>		Lab WO# <u>E207083</u>		Job Number <u>200410-001</u>		1D	2D	3D	Standard	CWA	SDWA		
Project Manager:		Address: <u>2724 NW County Rd</u>		Analysis and Method											
Address:		City, State, Zip <u>Hobbs NM 88240</u>		DRO by 8015		GRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0	
City, State, Zip		Phone: <u>505 390 6397</u>													
Phone:		Email: <u>Natalie Gladden</u>													
Email:															
Report due by:															

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO by 8015	GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	7/14	S	1	SP1 - 10' - Sep	1									
				SP6 - 15' - Bty	2									
				SP6 - 10' - Bty	3									
				SP6 - 5' - Bty	4									
				SP5 - 15' - Bty	5									
				SP5 - 10' - Bty	6									
				SP5 - 5' - Bty	7									
				SP3 - 10' - Bty	8									
				SP4 - 5' - Sep	9									
				SP2 - 10' - Bty	10									

Additional Instructions:

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

Relinquished by: (Signature) Jordan Pander Date 7/14/22 Time

Relinquished by: (Signature) Requiescent Date 7-15-22 Time 4:15

Relinquished by: (Signature) Date Time

Received by: (Signature) Jordan Pander Date 7-15-22 Time 2:45

Received by: (Signature) Carla Chute Date 7/18/22 Time 10:05

Received by: (Signature) Date Time

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

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

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

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

Project Information

Chain of Custody

Page 2 of 3

Client: <u>Pitts Energy</u>		Bill To		Lab Use Only		TAT		EPA Program													
Project: <u>Federal 54 W&H #1</u>		Attention: <u>ESS</u>		Lab WO# <u>E207083</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA								
Project Manager:		Address: <u>2124 NW County Rd</u>		Analysis and Method								RCRA									
Address:		City, State, Zip <u>Holbrook NM 88240</u>																			
City, State, Zip		Phone: <u>505 340 6397</u>																			
Phone:		Email: <u>Natalie Gladden</u>		DRO/DRO by 8015		GRO/DRO by 8015		BTEx by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		BGDOC TX		State	
Email:																				NM CO UT AZ TX	
Report due by:																				Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEx by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	7/14	S	1	SP1-5'-Bty	11									
				SP3-5'-Bty	12									
				SP4-10'-Sep	13									
				SP2-5'-Bty	14									
				SP1-10'-Bty	15									
				SP2-15'-Bty	16									
				SP2-5'-Sep	17									
				SP2-10'-Sep	18									
				SP1-5'-Sep	19									
				SP5-5'-Sep	20									

Additional Instructions:

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

Sampled by: Jordan Pander

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
<u>Jordan Pander</u>	7/14/22		<u>Jordan Pander</u>	7-15-22	2:45 PM	Received on ice: <u>N</u>		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3
<u>[Signature]</u>	7-15-22	11:15	<u>[Signature]</u>	7/18/22	10:05			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>		

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

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

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

Chain of Custody

Client: <u>Kitts Energy</u>				Bill To				Lab Use Only				TAT				EPA Program				
Project: <u>Federal 54 WCH #1</u>				Attention: <u>ESS</u>				Lab WO# <u>E207083</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA			
Project Manager:				Address: <u>2724 NW County Rd</u>				Analysis and Method										RCRA		
Address:				City, State, Zip <u>Hobbs NM 88240</u>												State				
City, State, Zip				Phone: <u>505 390 6397</u>												NM	CO	UT	AZ	TX
Phone:				Email: <u>Natalie Gladden</u>												Remarks				
Email:																				
Report due by:																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					BDOC NM	BDOC TX			
	7/14	S	1	SPS - 10' - Sep	21															
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only								
<u>Jordan Pander</u>		7/14/22				<u>Jordan Pander</u>		7-15/22		2:46		Received on ice: <u>N</u>								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
<u>[Signature]</u>		7-15-22		8:45		<u>Chelle Chelle</u>		7/18/22		10:05										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>								
<u>[Signature]</u>																				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 7/18/2022 10:55:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/18/22 10:05	Work Order ID:	E207083
Phone:	(432) 425-8235	Date Logged In:	07/15/22 17:30	Logged In By:	Alexa Michaels
Email:		Due Date:	07/19/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

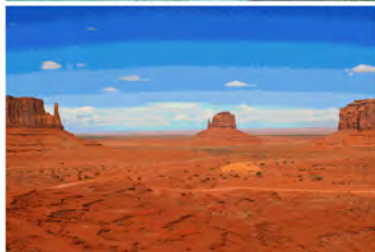
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207083

Job Number: 20046-0001

Received: 7/18/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/20/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207083
Date Received: 7/18/2022 10:05:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/18/2022 10:05:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	07/20/22 14:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 - 10' - Sep	E207083-01A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP6 - 15' - Bty	E207083-02A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP6 - 10' - Bty	E207083-03A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP6 - 5' - Bty	E207083-04A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 15' - Bty	E207083-05A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 10' - Bty	E207083-06A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 5' - Bty	E207083-07A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP3 - 10' - Bty	E207083-08A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP4 - 5' - Sep	E207083-09A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 10' - Bty	E207083-10A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP1 - 5' - Bty	E207083-11A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP3 - 5' - Bty	E207083-12A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP4 - 10' - Sep	E207083-13A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 5' - Bty	E207083-14A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP1 - 10' - Bty	E207083-15A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 15' - Bty	E207083-16A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 5' - Sep	E207083-17A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP2 - 10' - Sep	E207083-18A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP1 - 5' - Sep	E207083-19A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 5' - Sep	E207083-20A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
SP5 - 10' - Sep	E207083-21A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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SP1 - 10' - Sep

E207083-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	101 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	94.6 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	101 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	94.6 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	1730	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	542	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	116 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	ND	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP6 - 15' - Bty

E207083-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	0.571	0.0250	1	07/15/22	07/19/22	
Toluene	0.235	0.0250	1	07/15/22	07/19/22	
o-Xylene	7.19	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	9.23	0.0500	1	07/15/22	07/19/22	
Total Xylenes	16.4	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	106 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	106 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	138	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	106 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	106 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	7610	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	1740	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane	309 %	50-200		07/18/22	07/18/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	59.5	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP6 - 10' - Bty

E207083-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	0.258	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	3.72	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	5.45	0.0500	1	07/15/22	07/19/22	
Total Xylenes	9.17	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		107 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		104 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	129	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		107 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		104 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	6570	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	1540	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane		191 %	50-200	07/18/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	452	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP6 - 5' - Bty

E207083-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		94.7 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		94.7 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	1310	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	583	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane		127 %	50-200	07/18/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	49.0	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 15' - Bty

E207083-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.4 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.4 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	83.7	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		97.9 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	526	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 10' - Bty

E207083-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		94.5 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		94.5 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	35.5	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		90.8 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	ND	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 5' - Bty

E207083-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	0.423	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	0.423	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		98.5 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		98.5 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	3110	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	1060	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane		131 %	50-200	07/18/22	07/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	70.0	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP3 - 10' - Bty

E207083-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0500	2	07/15/22	07/19/22	
Ethylbenzene	4.03	0.0500	2	07/15/22	07/19/22	
Toluene	0.304	0.0500	2	07/15/22	07/19/22	
o-Xylene	7.83	0.0500	2	07/15/22	07/19/22	
p,m-Xylene	19.4	0.100	2	07/15/22	07/19/22	
Total Xylenes	27.2	0.0500	2	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		108 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		105 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	223	40.0	2	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		108 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		105 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	8130	250	10	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	2090	500	10	07/18/22	07/18/22	
Surrogate: n-Nonane		289 %	50-200	07/18/22	07/18/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	207	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP4 - 5' - Sep

E207083-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.4 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.4 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	2350	250	10	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	977	500	10	07/18/22	07/19/22	
Surrogate: n-Nonane		138 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	229	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 10' - Bty

E207083-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		93.9 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		93.9 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		107 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	128	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP1 - 5' - Bty

E207083-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		93.8 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		93.8 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	40.9	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	58.3	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		127 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	ND	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP3 - 5' - Bty

E207083-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	97.1 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	97.1 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	31.3	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane	97.8 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	ND	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP4 - 10' - Sep

E207083-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	95.7 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	95.7 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	596	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	147	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane	120 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	291	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 5' - Bty

E207083-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.8 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.8 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		94.2 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	152	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP1 - 10' - Bty

E207083-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	95.7 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	95.7 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	305	250	10	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	500	10	07/18/22	07/19/22	
Surrogate: n-Nonane	112 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	149	20.0	1	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 15' - Bty

E207083-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	105 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	105 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	242	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	75.0	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane	113 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	775	40.0	2	07/18/22	07/18/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 5' - Sep

E207083-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		105 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		105 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	1050	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	356	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		117 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	81.1	40.0	2	07/18/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP2 - 10' - Sep

E207083-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		104 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		104 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	4120	250	10	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	1150	500	10	07/18/22	07/19/22	
Surrogate: n-Nonane		139 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	961	40.0	2	07/18/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP1 - 5' - Sep

E207083-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		102 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		102 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	1440	250	10	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	500	10	07/18/22	07/19/22	
Surrogate: n-Nonane		127 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	56.6	40.0	2	07/18/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 5' - Sep

E207083-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.2 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229096
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	07/15/22	07/19/22	
Surrogate: Toluene-d8		95.2 %	70-130	07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane		106 %	50-200	07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230006
Chloride	354	40.0	2	07/18/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 2:07:29PM

SP5 - 10' - Sep

E207083-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229097
Benzene	ND	0.0250	1	07/15/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/19/22	
Toluene	ND	0.0250	1	07/15/22	07/19/22	
o-Xylene	ND	0.0250	1	07/15/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	94.5 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229097
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/19/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		07/15/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/15/22	07/19/22	
Surrogate: Toluene-d8	94.5 %	70-130		07/15/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/19/22	
Surrogate: n-Nonane	107 %	50-200		07/18/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230005
Chloride	207	40.0	2	07/18/22	07/19/22	



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229096-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

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	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.7	70-130			

LCS (2229096-BS1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.38	0.0250	2.50		95.2	70-130			
Ethylbenzene	2.37	0.0250	2.50		95.0	70-130			
Toluene	2.35	0.0250	2.50		93.8	70-130			
o-Xylene	2.47	0.0250	2.50		98.7	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.4	70-130			
Total Xylenes	7.24	0.0250	7.50		96.5	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.3	70-130			

LCS Dup (2229096-BSD1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.56	0.0250	2.50		102	70-130	7.27	23	
Ethylbenzene	2.54	0.0250	2.50		102	70-130	6.89	27	
Toluene	2.53	0.0250	2.50		101	70-130	7.69	24	
o-Xylene	2.62	0.0250	2.50		105	70-130	5.78	27	
p,m-Xylene	5.07	0.0500	5.00		101	70-130	6.03	27	
Total Xylenes	7.68	0.0250	7.50		102	70-130	5.95	27	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.532		0.500		106	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229097-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

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	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			

LCS (2229097-BS1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.30	0.0250	2.50		92.0	70-130			
Ethylbenzene	2.42	0.0250	2.50		97.0	70-130			
Toluene	2.37	0.0250	2.50		94.7	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	4.93	0.0500	5.00		98.6	70-130			
Total Xylenes	7.44	0.0250	7.50		99.2	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

LCS Dup (2229097-BSD1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.32	0.0250	2.50		92.8	70-130	0.909	23	
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130	0.579	27	
Toluene	2.35	0.0250	2.50		94.2	70-130	0.551	24	
o-Xylene	2.53	0.0250	2.50		101	70-130	0.615	27	
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130	0.417	27	
Total Xylenes	7.44	0.0250	7.50		99.1	70-130	0.0672	27	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229096-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.7	70-130			

LCS (2229096-BS2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.7	70-130			

LCS Dup (2229096-BSD2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.6	70-130	0.682	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229097-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			

LCS (2229097-BS2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

LCS Dup (2229097-BSD2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.3	70-130	1.95	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230004-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	50-200			

LCS (2230004-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	517	25.0	500		103	38-132			
Surrogate: <i>n</i> -Nonane	54.2		50.0		108	50-200			

Matrix Spike (2230004-MS1)

Source: E207080-04

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	566	25.0	500	ND	113	38-132			
Surrogate: <i>n</i> -Nonane	57.9		50.0		116	50-200			

Matrix Spike Dup (2230004-MSD1)

Source: E207080-04

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	573	25.0	500	ND	115	38-132	1.29	20	
Surrogate: <i>n</i> -Nonane	58.2		50.0		116	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230016-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.5		50.0		99.0	50-200			

LCS (2230016-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	510	25.0	500		102	38-132			
Surrogate: <i>n</i> -Nonane	52.4		50.0		105	50-200			

Matrix Spike (2230016-MS1)

Source: E207083-06

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	592	25.0	500	35.5	111	38-132			
Surrogate: <i>n</i> -Nonane	45.1		50.0		90.2	50-200			

Matrix Spike Dup (2230016-MSD1)

Source: E207083-06

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	576	25.0	500	35.5	108	38-132	2.72	20	
Surrogate: <i>n</i> -Nonane	47.8		50.0		95.7	50-200			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 2:07:29PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230005-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride	ND	20.0
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LCS (2230005-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride	240	20.0	250	96.2	90-110
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Matrix Spike (2230005-MS1)

Source: E207073-01

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride	302	20.0	250	56.8	98.1	80-120
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Matrix Spike Dup (2230005-MSD1)

Source: E207073-01

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride	303	20.0	250	56.8	98.7	80-120	0.498	20
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QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/20/2022 2:07:29PM
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Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230006-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride ND 20.0

LCS (2230006-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 251 20.0 250 101 90-110

Matrix Spike (2230006-MS1)

Source: E207083-01

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 259 40.0 250 ND 103 80-120

Matrix Spike Dup (2230006-MSD1)

Source: E207083-01

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 275 40.0 250 ND 110 80-120 6.23 20

QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/20/22 14:07

- 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.



Project Information

Chain of Custody

Client: <u>Pitts Energy</u>		Bill To		Lab Use Only		TAT		EPA Program							
Project: <u>Federal 54 W2H #1</u>		Attention: <u>ESS</u>		Lab WO# <u>E207083</u>		Job Number <u>200410-001</u>		1D	2D	3D	Standard	CWA	SDWA		
Project Manager:		Address: <u>2724 NW County Rd</u>		Analysis and Method											
Address:		City, State, Zip <u>Hobbs NM 88240</u>		DRO by 8015		GRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0	
City, State, Zip		Phone: <u>505 390 6397</u>													
Phone:		Email: <u>Natalie Gladden</u>													
Email:															
Report due by:															

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO by 8015	GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	7/14	S	1	SP1 - 10' - Sep	1									
				SP6 - 15' - Bty	2									
				SP6 - 10' - Bty	3									
				SP6 - 5' - Bty	4									
				SP5 - 15' - Bty	5									
				SP5 - 10' - Bty	6									
				SP5 - 5' - Bty	7									
				SP3 - 10' - Bty	8									
				SP4 - 5' - Sep	9									
				SP2 - 10' - Bty	10									

Additional Instructions:

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

Relinquished by: (Signature) Jordan Pander Date 7/14/22 Time

Relinquished by: (Signature) Requena Date 7-15-22 Time 4:15

Relinquished by: (Signature) Date Time

Received by: (Signature) Jordan Pander Date 7-15-22 Time 2:45

Received by: (Signature) Carla Chate Date 7/18/22 Time 10:05

Received by: (Signature) Date Time

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

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

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

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

Project Information

Chain of Custody

Page 2 of 3

Client: <u>Pitts Energy</u>	Bill To	Lab Use Only		TAT		EPA Program	
Project: <u>Federal 54 W&H #1</u>	Attention: <u>ESS</u>	Lab WO# <u>E207083</u>	Job Number <u>20046-0001</u>	1D	2D	3D	Standard
Project Manager:	Address: <u>2124 NW County Rd</u>	Analysis and Method				CWA	SDWA
Address:	City, State, Zip <u>Holbrook NM 88240</u>						RCRA
City, State, Zip	Phone: <u>505 340 6397</u>					State	
Phone:	Email: <u>Natalie Gladden</u>					NM	CO
Email:						UT	AZ
Report due by:						TX	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	7/14	S	1	SP1-5' - Bty	11							✓		
				SP3-5' - Bty	12									
				SP4-10' - Sep	13									
				SP2-5' - Bty	14									
				SP1-10' - Bty	15									
				SP2-15' - Bty	16									
				SP2-5' - Sep	17									
				SP2-10' - Sep	18									
				SP1-5' - Sep	19									
				SP5-5' - Sep	20									

Additional Instructions:

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

Sampled by: Jordan Pander

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <u>Jordan Pander</u>	Date 7/14/22	Time 2:45 PM	Received by: (Signature) <u>L. Gladden</u>	Date 7-15-22	Time 2:45 PM	Lab Use Only
Relinquished by: (Signature) <u>[Signature]</u>	Date 7-15-22	Time 11:15	Received by: (Signature) <u>[Signature]</u>	Date 7/18/22	Time 10:05	Received on ice: <u>N</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
AVG Temp °C <u>4</u>						

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

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

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

Project Information

Chain of Custody

Page 3 of 3

Client: <u>Pitts Energy</u>					Bill To					Lab Use Only				TAT			EPA Program				
Project: <u>Federal 54 W2H #1</u>					Attention: <u>ESS</u>					Lab WO# <u>E207083</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA		
Project Manager:					Address: <u>2124 NW County Rd</u>					Analysis and Method											
Address:					City, State, Zip <u>Hobbs NM 88240</u>																
City, State, Zip					Phone: <u>505 390 6397</u>															State	
Phone:					Email: <u>Natalie Gladden</u>															NM CO UT AZ TX	
Email:																					
Report due by:																					
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			BGDOC NM	BGDOC TX			Remarks			
	7/14	S	1	SPS - 10' - Sep	21									✓							

Additional Instructions:

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

Sampled by: Jordan Pander

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Jordan Pander</u>	7/14/22		<u>Jordan Pander</u>	7-15/22	2:46	
<u>Jordan Pander</u>	7-15/22	8:15	<u>Chelle Chelle</u>	7/18/22	10:05	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

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

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

Envirotech Analytical Laboratory

Printed: 7/18/2022 10:55:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/18/22 10:05	Work Order ID:	E207083
Phone:	(432) 425-8235	Date Logged In:	07/15/22 17:30	Logged In By:	Alexa Michaels
Email:		Due Date:	07/19/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207112

Job Number: 20046-0001

Received: 7/19/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/20/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207112
Date Received: 7/19/2022 10:12:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/19/2022 10:12:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Sample Summary

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/20/22 17:08
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP2 - 20' - Bty	E207112-01A	Soil	07/15/22	07/19/22	Glass Jar, 4 oz.
SP2 - 26' - Bty	E207112-02A	Soil	07/15/22	07/19/22	Glass Jar, 4 oz.
SP2 - 30' - Bty	E207112-03A	Soil	07/15/22	07/19/22	Glass Jar, 4 oz.
SP2 - 35' - Bty	E207112-04A	Soil	07/15/22	07/19/22	Glass Jar, 4 oz.
SP2 - 38' - Bty	E207112-05A	Soil	07/15/22	07/19/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/20/2022 5:08:49PM
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SP2 - 20' - Bty

E207112-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Benzene	ND	0.0250	1	07/19/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/19/22	07/19/22	
Toluene	ND	0.0250	1	07/19/22	07/19/22	
o-Xylene	ND	0.0250	1	07/19/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/19/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene	102 %	70-130		07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/19/22	07/19/22	
Surrogate: Toluene-d8	104 %	70-130		07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene	102 %	70-130		07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/19/22	07/19/22	
Surrogate: Toluene-d8	104 %	70-130		07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230019
Diesel Range Organics (C10-C28)	60.3	25.0	1	07/19/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/22	07/19/22	
Surrogate: n-Nonane	94.3 %	50-200		07/19/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230031
Chloride	3430	40.0	2	07/19/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 5:08:49PM

SP2 - 26' - Bty

E207112-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Benzene	ND	0.0250	1	07/19/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/19/22	07/19/22	
Toluene	ND	0.0250	1	07/19/22	07/19/22	
o-Xylene	ND	0.0250	1	07/19/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/19/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	07/19/22	07/19/22	
Surrogate: Toluene-d8		106 %	70-130	07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	07/19/22	07/19/22	
Surrogate: Toluene-d8		106 %	70-130	07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/22	07/19/22	
Surrogate: n-Nonane		102 %	50-200	07/19/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230031
Chloride	4660	40.0	2	07/19/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 5:08:49PM

SP2 - 30' - Bty

E207112-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Benzene	ND	0.0250	1	07/19/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/19/22	07/19/22	
Toluene	ND	0.0250	1	07/19/22	07/19/22	
o-Xylene	ND	0.0250	1	07/19/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/19/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		07/19/22	07/19/22	
Surrogate: Toluene-d8	104 %	70-130		07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		07/19/22	07/19/22	
Surrogate: Toluene-d8	104 %	70-130		07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/22	07/19/22	
Surrogate: n-Nonane	104 %	50-200		07/19/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230031
Chloride	3490	40.0	2	07/19/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 5:08:49PM

SP2 - 35' - Bty

E207112-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Benzene	ND	0.0250	1	07/19/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/19/22	07/19/22	
Toluene	ND	0.0250	1	07/19/22	07/19/22	
o-Xylene	ND	0.0250	1	07/19/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/19/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/19/22	07/19/22	
Surrogate: Toluene-d8		105 %	70-130	07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/19/22	07/19/22	
Surrogate: Toluene-d8		105 %	70-130	07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230019
Diesel Range Organics (C10-C28)	190	25.0	1	07/19/22	07/19/22	
Oil Range Organics (C28-C36)	117	50.0	1	07/19/22	07/19/22	
Surrogate: n-Nonane		111 %	50-200	07/19/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230031
Chloride	867	20.0	1	07/19/22	07/19/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/20/2022 5:08:49PM

SP2 - 38' - Bty

E207112-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Benzene	ND	0.0250	1	07/19/22	07/19/22	
Ethylbenzene	ND	0.0250	1	07/19/22	07/19/22	
Toluene	ND	0.0250	1	07/19/22	07/19/22	
o-Xylene	ND	0.0250	1	07/19/22	07/19/22	
p,m-Xylene	ND	0.0500	1	07/19/22	07/19/22	
Total Xylenes	ND	0.0250	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/19/22	07/19/22	
Surrogate: Toluene-d8		102 %	70-130	07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230033
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/19/22	07/19/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/19/22	07/19/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/19/22	07/19/22	
Surrogate: Toluene-d8		102 %	70-130	07/19/22	07/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230019
Diesel Range Organics (C10-C28)	116	25.0	1	07/19/22	07/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/22	07/19/22	
Surrogate: n-Nonane		109 %	50-200	07/19/22	07/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230031
Chloride	355	20.0	1	07/19/22	07/19/22	



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 5:08:49PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230033-BLK1)

Prepared: 07/19/22 Analyzed: 07/20/22

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	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.6	70-130			

LCS (2230033-BS1)

Prepared: 07/19/22 Analyzed: 07/20/22

Benzene	2.36	0.0250	2.50		94.5	70-130			
Ethylbenzene	2.36	0.0250	2.50		94.6	70-130			
Toluene	2.40	0.0250	2.50		96.0	70-130			
o-Xylene	2.45	0.0250	2.50		98.2	70-130			
p,m-Xylene	4.82	0.0500	5.00		96.5	70-130			
Total Xylenes	7.28	0.0250	7.50		97.1	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.538		0.500		108	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS Dup (2230033-BSD1)

Prepared: 07/19/22 Analyzed: 07/20/22

Benzene	2.35	0.0250	2.50		93.8	70-130	0.743	23	
Ethylbenzene	2.33	0.0250	2.50		93.2	70-130	1.43	27	
Toluene	2.31	0.0250	2.50		92.6	70-130	3.61	24	
o-Xylene	2.42	0.0250	2.50		96.8	70-130	1.46	27	
p,m-Xylene	4.69	0.0500	5.00		93.9	70-130	2.73	27	
Total Xylenes	7.11	0.0250	7.50		94.8	70-130	2.30	27	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.536		0.500		107	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 5:08:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230033-BLK1)

Prepared: 07/19/22 Analyzed: 07/20/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.6	70-130			

LCS (2230033-BS2)

Prepared: 07/19/22 Analyzed: 07/20/22

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

LCS Dup (2230033-BSD2)

Prepared: 07/19/22 Analyzed: 07/20/22

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130	5.48	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/20/2022 5:08:49PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230019-BLK1)

Prepared: 07/19/22 Analyzed: 07/19/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	57.4		50.0		115	50-200			

LCS (2230019-BS1)

Prepared: 07/19/22 Analyzed: 07/19/22

Diesel Range Organics (C10-C28)	469	25.0	500		93.8	38-132			
Surrogate: <i>n</i> -Nonane	46.5		50.0		92.9	50-200			

Matrix Spike (2230019-MS1)

Source: E207066-04

Prepared: 07/19/22 Analyzed: 07/19/22

Diesel Range Organics (C10-C28)	490	25.0	500	ND	98.1	38-132			
Surrogate: <i>n</i> -Nonane	47.1		50.0		94.2	50-200			

Matrix Spike Dup (2230019-MSD1)

Source: E207066-04

Prepared: 07/19/22 Analyzed: 07/19/22

Diesel Range Organics (C10-C28)	479	25.0	500	ND	95.7	38-132	2.47	20	
Surrogate: <i>n</i> -Nonane	39.9		50.0		79.7	50-200			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/20/2022 5:08:49PM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2230031-BLK1)					Prepared: 07/19/22 Analyzed: 07/19/22				
Chloride	ND	20.0							
LCS (2230031-BS1)					Prepared: 07/19/22 Analyzed: 07/19/22				
Chloride	269	20.0	250		107	90-110			
Matrix Spike (2230031-MS1)					Source: E207114-01		Prepared: 07/19/22 Analyzed: 07/19/22		
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2230031-MSD1)					Source: E207114-01		Prepared: 07/19/22 Analyzed: 07/19/22		
Chloride	274	20.0	250	ND	110	80-120	1.05	20	

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/20/22 17:08

- 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

Chain of Custody

Page 1 of 1

Client: <u>Pitts Energy</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Federal SW Well #1</u>		Attention: <u>FSS</u>		Lab WO# <u>E207112</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address: <u>2724 NW County Rd</u>		Analysis and Method									
Address:		City, State, Zip <u>Hobbs NM 88240</u>											RCRA
City, State, Zip		Phone: <u>505 390 6397</u>											
Phone:		Email: <u>Natalie Gladden</u>											
Email:													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/QRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State	Remarks
	7/15	S	1	SP2-20' - Bty	1										
				SP2-25' - Bty	2										
				SP2-30' - Bty	3										
				SP2-35' - Bty	4										
				SP2-38' - Bty	5										

Additional Instructions:

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

Sampled by: Jordan Bender Gregory Bender

Samples requiring thermal preservation must be received on ice the day they are sampled or received stored in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <u>Jordan Bender</u>	Date <u>7/15/22</u>	Time <u>10:45</u>	Received by: (Signature) <u>Gregory Bender</u>	Date <u>7-18-22</u>	Time <u>1:35p</u>	Lab Use Only
Relinquished by: (Signature) <u>Gregory Bender</u>	Date <u>7-18-22</u>	Time <u>4/5</u>	Received by: (Signature) <u>Chloe Chate</u>	Date <u>7/19/22</u>	Time <u>10:12</u>	Received on ice: <u>(Y) / N</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
						T2
						T3
AVG Temp °C <u>4</u>						

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

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

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

Envirotech Analytical Laboratory

Printed: 7/19/2022 12:17:38PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/19/22 10:12	Work Order ID:	E207112
Phone:	(432) 425-8235	Date Logged In:	07/19/22 08:40	Logged In By:	Caitlin Christian
Email:		Due Date:	07/20/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207125

Job Number: 20046-0001

Received: 7/20/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/21/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/21/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207125
Date Received: 7/20/2022 10:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/20/2022 10:15:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Rayny Hagan
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/21/22 15:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP3 - 16' -Bty	E207125-01A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP3 - 20' - Bty	E207125-02A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP3 - 26' - Bty	E207125-03A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP3 - 30' - bty	E207125-04A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP6 - 20' - Bty	E207125-05A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP6 - 26' - Bty	E207125-06A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/21/2022 3:40:37PM
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SP3 - 16' -Bty

E207125-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	2.66	0.250	10	07/20/22	07/21/22	
Toluene	0.415	0.250	10	07/20/22	07/21/22	
o-Xylene	6.42	0.250	10	07/20/22	07/21/22	
p,m-Xylene	11.7	0.500	10	07/20/22	07/21/22	
Total Xylenes	18.1	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	103 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	106 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	103 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	106 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	7860	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	1570	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane	293 %	50-200		07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	591	20.0	1	07/20/22	07/20/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP3 - 20' - Bty

E207125-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	2.37	0.250	10	07/20/22	07/21/22	
Toluene	0.760	0.250	10	07/20/22	07/21/22	
o-Xylene	6.15	0.250	10	07/20/22	07/21/22	
p,m-Xylene	10.6	0.500	10	07/20/22	07/21/22	
Total Xylenes	16.8	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		104 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		104 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	8710	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	1780	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane		322 %	50-200	07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	720	20.0	1	07/20/22	07/20/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP3 - 26' - Bty

E207125-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	0.925	0.250	10	07/20/22	07/21/22	
Toluene	0.310	0.250	10	07/20/22	07/21/22	
o-Xylene	2.36	0.250	10	07/20/22	07/21/22	
p,m-Xylene	4.31	0.500	10	07/20/22	07/21/22	
Total Xylenes	6.67	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		105 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		103 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		105 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	7450	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	1420	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane		325 %	50-200	07/20/22	07/21/22	SS
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	542	20.0	1	07/20/22	07/20/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP3 - 30' - bty

E207125-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	1.12	0.250	10	07/20/22	07/21/22	
Toluene	0.545	0.250	10	07/20/22	07/21/22	
o-Xylene	2.94	0.250	10	07/20/22	07/21/22	
p,m-Xylene	5.20	0.500	10	07/20/22	07/21/22	
Total Xylenes	8.14	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	102 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	106 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	102 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	106 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	3400	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	730	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane	203 %	50-200		07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	270	20.0	1	07/20/22	07/21/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP6 - 20' - Bty

E207125-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	1.23	0.250	10	07/20/22	07/21/22	
Toluene	0.475	0.250	10	07/20/22	07/21/22	
o-Xylene	4.06	0.250	10	07/20/22	07/21/22	
p,m-Xylene	6.70	0.500	10	07/20/22	07/21/22	
Total Xylenes	10.8	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		105 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		105 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	4760	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	910	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane		230 %	50-200	07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	2240	40.0	2	07/20/22	07/21/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP6 - 26' - Bty

E207125-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	0.385	0.250	10	07/20/22	07/21/22	
Toluene	ND	0.250	10	07/20/22	07/21/22	
o-Xylene	1.22	0.250	10	07/20/22	07/21/22	
p,m-Xylene	2.12	0.500	10	07/20/22	07/21/22	
Total Xylenes	3.34	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		104 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		104 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	2500	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	509	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane		143 %	50-200	07/20/22	07/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	1440	20.0	1	07/20/22	07/21/22	



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/21/2022 3:40:37PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2230055-BLK1)

Prepared: 07/20/22 Analyzed: 07/21/22

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	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2230055-BS1)

Prepared: 07/20/22 Analyzed: 07/21/22

Benzene	2.14	0.0250	2.50		85.6	70-130			
Ethylbenzene	2.28	0.0250	2.50		91.1	70-130			
Toluene	2.20	0.0250	2.50		88.1	70-130			
o-Xylene	2.15	0.0250	2.50		86.0	70-130			
p,m-Xylene	4.27	0.0500	5.00		85.3	70-130			
Total Xylenes	6.42	0.0250	7.50		85.6	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

LCS Dup (2230055-BSD1)

Prepared: 07/20/22 Analyzed: 07/21/22

Benzene	2.28	0.0250	2.50		91.3	70-130	6.40	23	
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130	6.13	27	
Toluene	2.34	0.0250	2.50		93.7	70-130	6.23	24	
o-Xylene	2.26	0.0250	2.50		90.6	70-130	5.12	27	
p,m-Xylene	4.50	0.0500	5.00		89.9	70-130	5.22	27	
Total Xylenes	6.76	0.0250	7.50		90.1	70-130	5.18	27	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/21/2022 3:40:37PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230055-BLK1)

Prepared: 07/20/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2230055-BS2)

Prepared: 07/20/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

LCS Dup (2230055-BSD2)

Prepared: 07/20/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	56.2	20.0	50.0		112	70-130	0.937	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/21/2022 3:40:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230058-BLK1)

Prepared: 07/20/22 Analyzed: 07/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	65.5		50.0		131	50-200			

LCS (2230058-BS1)

Prepared: 07/20/22 Analyzed: 07/20/22

Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: <i>n</i> -Nonane	64.6		50.0		129	50-200			

Matrix Spike (2230058-MS1)

Source: E207124-01

Prepared: 07/20/22 Analyzed: 07/20/22

Diesel Range Organics (C10-C28)	582	25.0	250	298	114	38-132			
Surrogate: <i>n</i> -Nonane	64.2		50.0		128	50-200			

Matrix Spike Dup (2230058-MSD1)

Source: E207124-01

Prepared: 07/20/22 Analyzed: 07/20/22

Diesel Range Organics (C10-C28)	548	25.0	250	298	100	38-132	6.03	20	
Surrogate: <i>n</i> -Nonane	63.7		50.0		127	50-200			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/21/2022 3:40:37PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2230061-BLK1)					Prepared: 07/20/22 Analyzed: 07/20/22				
Chloride	ND	20.0							
LCS (2230061-BS1)					Prepared: 07/20/22 Analyzed: 07/20/22				
Chloride	261	20.0	250		104	90-110			
LCS Dup (2230061-BSD1)					Prepared: 07/20/22 Analyzed: 07/20/22				
Chloride	260	20.0	250		104	90-110	0.248	20	

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/21/22 15:40

- 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.



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Envirotech Analytical Laboratory

Printed: 7/20/2022 1:32:13PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/20/22 10:15	Work Order ID:	E207125
Phone:	(432) 425-8235	Date Logged In:	07/20/22 10:56	Logged In By:	Caitlin Christian
Email:		Due Date:	07/21/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207125

Job Number: 20046-0001

Received: 7/20/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/21/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/21/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207125
Date Received: 7/20/2022 10:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/20/2022 10:15:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Sample Summary

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/21/22 15:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP3 - 16' -Bty	E207125-01A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP3 - 20' - Bty	E207125-02A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP3 - 26' - Bty	E207125-03A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP3 - 30' - bty	E207125-04A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP6 - 20' - Bty	E207125-05A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.
SP6 - 26' - Bty	E207125-06A	Soil	07/18/22	07/20/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/21/2022 3:40:37PM
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SP3 - 16' -Bty

E207125-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	2.66	0.250	10	07/20/22	07/21/22	
Toluene	0.415	0.250	10	07/20/22	07/21/22	
o-Xylene	6.42	0.250	10	07/20/22	07/21/22	
p,m-Xylene	11.7	0.500	10	07/20/22	07/21/22	
Total Xylenes	18.1	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	103 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	106 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	103 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	106 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	7860	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	1570	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane	293 %	50-200		07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	591	20.0	1	07/20/22	07/20/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP3 - 20' - Bty

E207125-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	2.37	0.250	10	07/20/22	07/21/22	
Toluene	0.760	0.250	10	07/20/22	07/21/22	
o-Xylene	6.15	0.250	10	07/20/22	07/21/22	
p,m-Xylene	10.6	0.500	10	07/20/22	07/21/22	
Total Xylenes	16.8	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		104 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		104 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	8710	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	1780	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane		322 %	50-200	07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	720	20.0	1	07/20/22	07/20/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP3 - 26' - Bty

E207125-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	0.925	0.250	10	07/20/22	07/21/22	
Toluene	0.310	0.250	10	07/20/22	07/21/22	
o-Xylene	2.36	0.250	10	07/20/22	07/21/22	
p,m-Xylene	4.31	0.500	10	07/20/22	07/21/22	
Total Xylenes	6.67	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	103 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	105 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	103 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	105 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	7450	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	1420	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane	325 %	50-200		07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	542	20.0	1	07/20/22	07/20/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP3 - 30' - bty

E207125-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	1.12	0.250	10	07/20/22	07/21/22	
Toluene	0.545	0.250	10	07/20/22	07/21/22	
o-Xylene	2.94	0.250	10	07/20/22	07/21/22	
p,m-Xylene	5.20	0.500	10	07/20/22	07/21/22	
Total Xylenes	8.14	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	102 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	106 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene	102 %	70-130		07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/20/22	07/21/22	
Surrogate: Toluene-d8	106 %	70-130		07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	3400	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	730	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane	203 %	50-200		07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	270	20.0	1	07/20/22	07/21/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP6 - 20' - Bty

E207125-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	1.23	0.250	10	07/20/22	07/21/22	
Toluene	0.475	0.250	10	07/20/22	07/21/22	
o-Xylene	4.06	0.250	10	07/20/22	07/21/22	
p,m-Xylene	6.70	0.500	10	07/20/22	07/21/22	
Total Xylenes	10.8	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		105 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		105 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	4760	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	910	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane		230 %	50-200	07/20/22	07/21/22	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	2240	40.0	2	07/20/22	07/21/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/21/2022 3:40:37PM

SP6 - 26' - Bty

E207125-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Benzene	ND	0.250	10	07/20/22	07/21/22	
Ethylbenzene	0.385	0.250	10	07/20/22	07/21/22	
Toluene	ND	0.250	10	07/20/22	07/21/22	
o-Xylene	1.22	0.250	10	07/20/22	07/21/22	
p,m-Xylene	2.12	0.500	10	07/20/22	07/21/22	
Total Xylenes	3.34	0.250	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		104 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230055
Gasoline Range Organics (C6-C10)	ND	200	10	07/20/22	07/21/22	
Surrogate: Bromofluorobenzene		104 %	70-130	07/20/22	07/21/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/20/22	07/21/22	
Surrogate: Toluene-d8		104 %	70-130	07/20/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230058
Diesel Range Organics (C10-C28)	2500	250	10	07/20/22	07/21/22	
Oil Range Organics (C28-C36)	509	500	10	07/20/22	07/21/22	
Surrogate: n-Nonane		143 %	50-200	07/20/22	07/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230061
Chloride	1440	20.0	1	07/20/22	07/21/22	



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/21/2022 3:40:37PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2230055-BLK1)

Prepared: 07/20/22 Analyzed: 07/21/22

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	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2230055-BS1)

Prepared: 07/20/22 Analyzed: 07/21/22

Benzene	2.14	0.0250	2.50		85.6	70-130			
Ethylbenzene	2.28	0.0250	2.50		91.1	70-130			
Toluene	2.20	0.0250	2.50		88.1	70-130			
o-Xylene	2.15	0.0250	2.50		86.0	70-130			
p,m-Xylene	4.27	0.0500	5.00		85.3	70-130			
Total Xylenes	6.42	0.0250	7.50		85.6	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

LCS Dup (2230055-BSD1)

Prepared: 07/20/22 Analyzed: 07/21/22

Benzene	2.28	0.0250	2.50		91.3	70-130	6.40	23	
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130	6.13	27	
Toluene	2.34	0.0250	2.50		93.7	70-130	6.23	24	
o-Xylene	2.26	0.0250	2.50		90.6	70-130	5.12	27	
p,m-Xylene	4.50	0.0500	5.00		89.9	70-130	5.22	27	
Total Xylenes	6.76	0.0250	7.50		90.1	70-130	5.18	27	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/21/2022 3:40:37PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230055-BLK1)

Prepared: 07/20/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2230055-BS2)

Prepared: 07/20/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

LCS Dup (2230055-BSD2)

Prepared: 07/20/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	56.2	20.0	50.0		112	70-130	0.937	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/21/2022 3:40:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230058-BLK1)

Prepared: 07/20/22 Analyzed: 07/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	65.5		50.0		131	50-200			

LCS (2230058-BS1)

Prepared: 07/20/22 Analyzed: 07/20/22

Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: <i>n</i> -Nonane	64.6		50.0		129	50-200			

Matrix Spike (2230058-MS1)

Source: E207124-01

Prepared: 07/20/22 Analyzed: 07/20/22

Diesel Range Organics (C10-C28)	582	25.0	250	298	114	38-132			
Surrogate: <i>n</i> -Nonane	64.2		50.0		128	50-200			

Matrix Spike Dup (2230058-MSD1)

Source: E207124-01

Prepared: 07/20/22 Analyzed: 07/20/22

Diesel Range Organics (C10-C28)	548	25.0	250	298	100	38-132	6.03	20	
Surrogate: <i>n</i> -Nonane	63.7		50.0		127	50-200			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/21/2022 3:40:37PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2230061-BLK1)					Prepared: 07/20/22 Analyzed: 07/20/22				
Chloride	ND	20.0							
LCS (2230061-BS1)					Prepared: 07/20/22 Analyzed: 07/20/22				
Chloride	261	20.0	250		104	90-110			
LCS Dup (2230061-BSD1)					Prepared: 07/20/22 Analyzed: 07/20/22				
Chloride	260	20.0	250		104	90-110	0.248	20	

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/21/22 15:40

- 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.



Page 16 of 17

Envirotech Analytical Laboratory

Printed: 7/20/2022 1:32:13PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/20/22 10:15	Work Order ID:	E207125
Phone:	(432) 425-8235	Date Logged In:	07/20/22 10:56	Logged In By:	Caitlin Christian
Email:		Due Date:	07/21/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207129

Job Number: 20046-0001

Received: 7/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/22/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/22/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207129
Date Received: 7/21/2022 10:08:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/21/2022 10:08:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	07/22/22 15:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP6 - 30' - Bty	E207129-01A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
SP6 - 34' - Bty	E207129-02A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/22/2022 3:53:37PM
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SP6 - 30' - Bty

E207129-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2230072	
Benzene	ND	0.0250	1	07/21/22	07/22/22	
Ethylbenzene	0.0425	0.0250	1	07/21/22	07/22/22	
Toluene	0.0280	0.0250	1	07/21/22	07/22/22	
o-Xylene	0.181	0.0250	1	07/21/22	07/22/22	
p,m-Xylene	0.299	0.0500	1	07/21/22	07/22/22	
Total Xylenes	0.479	0.0250	1	07/21/22	07/22/22	
Surrogate: 4-Bromochlorobenzene-PID	113 %	70-130		07/21/22	07/22/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2230072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/21/22	07/22/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		07/21/22	07/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2230081	
Diesel Range Organics (C10-C28)	2030	25.0	1	07/21/22	07/21/22	
Oil Range Organics (C28-C36)	510	50.0	1	07/21/22	07/21/22	
Surrogate: n-Nonane	112 %	50-200		07/21/22	07/21/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL		Batch: 2230083	
Chloride	3680	40.0	2	07/21/22	07/21/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/22/2022 3:53:37PM

SP6 - 34' - Bty

E207129-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2230072	
Benzene	ND	0.0250	1	07/21/22	07/22/22	
Ethylbenzene	ND	0.0250	1	07/21/22	07/22/22	
Toluene	ND	0.0250	1	07/21/22	07/22/22	
o-Xylene	0.0281	0.0250	1	07/21/22	07/22/22	
p,m-Xylene	0.147	0.0500	1	07/21/22	07/22/22	
Total Xylenes	0.175	0.0250	1	07/21/22	07/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	07/21/22	07/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2230072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/21/22	07/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	07/21/22	07/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2230081	
Diesel Range Organics (C10-C28)	1710	25.0	1	07/21/22	07/21/22	
Oil Range Organics (C28-C36)	478	50.0	1	07/21/22	07/21/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	07/21/22	07/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2230083	
Chloride	4060	40.0	2	07/21/22	07/21/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/22/2022 3:53:37PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230072-BLK1)

Prepared: 07/21/22 Analyzed: 07/21/22

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	8.31		8.00		104	70-130			

LCS (2230072-BS1)

Prepared: 07/21/22 Analyzed: 07/21/22

Benzene	4.77	0.0250	5.00		95.3	70-130			
Ethylbenzene	4.12	0.0250	5.00		82.4	70-130			
Toluene	4.46	0.0250	5.00		89.2	70-130			
o-Xylene	4.42	0.0250	5.00		88.4	70-130			
p,m-Xylene	8.51	0.0500	10.0		85.1	70-130			
Total Xylenes	12.9	0.0250	15.0		86.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130			

LCS Dup (2230072-BSD1)

Prepared: 07/21/22 Analyzed: 07/21/22

Benzene	4.89	0.0250	5.00		97.9	70-130	2.65	20	
Ethylbenzene	4.22	0.0250	5.00		84.5	70-130	2.51	20	
Toluene	4.58	0.0250	5.00		91.7	70-130	2.69	20	
o-Xylene	4.54	0.0250	5.00		90.8	70-130	2.61	20	
p,m-Xylene	8.72	0.0500	10.0		87.2	70-130	2.43	20	
Total Xylenes	13.3	0.0250	15.0		88.4	70-130	2.49	20	
Surrogate: 4-Bromochlorobenzene-PID	8.24		8.00		103	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/22/2022 3:53:37PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230072-BLK1)

Prepared: 07/21/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

LCS (2230072-BS2)

Prepared: 07/21/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

LCS Dup (2230072-BSD2)

Prepared: 07/21/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130	1.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/22/2022 3:53:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230081-BLK1)

Prepared: 07/21/22 Analyzed: 07/21/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			

LCS (2230081-BS1)

Prepared: 07/21/22 Analyzed: 07/21/22

Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2230081-MS1)

Source: E207133-02

Prepared: 07/21/22 Analyzed: 07/21/22

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

Matrix Spike Dup (2230081-MSD1)

Source: E207133-02

Prepared: 07/21/22 Analyzed: 07/21/22

Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	1.52	20	
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/22/2022 3:53:37PM
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Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230083-BLK1)

Prepared: 07/21/22 Analyzed: 07/21/22

Chloride	ND	20.0
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LCS (2230083-BS1)

Prepared: 07/21/22 Analyzed: 07/21/22

Chloride	250	20.0	250	99.8	90-110
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Matrix Spike (2230083-MS1)

Source: E207128-01

Prepared: 07/21/22 Analyzed: 07/21/22

Chloride	742	200	250	402	136	80-120	M2
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Matrix Spike Dup (2230083-MSD1)

Source: E207128-01

Prepared: 07/21/22 Analyzed: 07/21/22

Chloride	565	200	250	402	65.2	80-120	27.0	20	M2
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QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/22/22 15:53

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- 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.



Project Information

Chain of Custody

Client: <u>Pitts Energy</u> Project: <u>Federal Sq Well # 1</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:					Bill To Attention: <u>ESS</u> Address: <u>2124 NW County Rd</u> City, State, Zip: <u>Holbrook NM 88660</u> Phone: <u>575 390 6397</u> Email: <u>Natalie Gladden</u>					Lab Use Only Lab WO# <u>E207629</u> Job Number <u>20046-000</u> Analysis and Method					TAT 1D 2D 3D <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			EPA Program CWA SDWA RCRA	
															State NM CO UT AZ TX <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRG/ORG by 8015	GRG/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX						
	7/19	S	1	SP6 - 30' - Bty	1							<input checked="" type="checkbox"/>							
	1	1	1	SP6 - 34' - Bty	2							1							
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Jordan Pender</u> Relinquished by: (Signature) <u>Jordan Pender</u> Date <u>7/19/22</u> Time <u>2:45</u> Received by: (Signature) <u>Lequies Olvera</u> Date <u>7-20-22</u> Time <u>8:00p</u> Relinquished by: (Signature) <u>Lequies Olvera</u> Date <u>7-20-22</u> Time <u>4:15</u> Received by: (Signature) <u>Carla Chate</u> Date <u>7/21/22</u> Time <u>10:08</u> Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____ Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 7/21/2022 2:12:56PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/21/22 10:08	Work Order ID:	E207129
Phone:	(432) 425-8235	Date Logged In:	07/21/22 08:52	Logged In By:	Caitlin Christian
Email:		Due Date:	07/22/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Fed 54

Work Order: E207153

Job Number: 20046-0001

Received: 7/25/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/26/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/26/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Fed 54
Workorder: E207153
Date Received: 7/25/2022 10:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2022 10:15:00AM, under the Project Name: Fed 54.

The analytical test results summarized in this report with the Project Name: Fed 54 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

Pitts Energy	Project Name:	Fed 54	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	07/26/22 17:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP5 - 20 - BTY	E207153-01A	Soil	07/20/22	07/25/22	Glass Jar, 4 oz.
SP6 - 40 - BTY	E207153-02A	Soil	07/20/22	07/25/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/26/2022 5:00:08PM
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SP5 - 20 - BTY

E207153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230087
Benzene	ND	0.0250	1	07/25/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/26/22	
Toluene	ND	0.0250	1	07/25/22	07/26/22	
o-Xylene	ND	0.0250	1	07/25/22	07/26/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/26/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/26/22	
Surrogate: Bromofluorobenzene	95.3 %	70-130		07/25/22	07/26/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		07/25/22	07/26/22	
Surrogate: Toluene-d8	92.7 %	70-130		07/25/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230087
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/26/22	
Surrogate: Bromofluorobenzene	95.3 %	70-130		07/25/22	07/26/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		07/25/22	07/26/22	
Surrogate: Toluene-d8	92.7 %	70-130		07/25/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230090
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/22	07/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/22	07/25/22	
Surrogate: n-Nonane	68.6 %	50-200		07/25/22	07/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230094
Chloride	90.9	20.0	1	07/22/22	07/25/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/26/2022 5:00:08PM

SP6 - 40 - BTY

E207153-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230087
Benzene	ND	0.0250	1	07/25/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/26/22	
Toluene	ND	0.0250	1	07/25/22	07/26/22	
o-Xylene	ND	0.0250	1	07/25/22	07/26/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/26/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/26/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		07/25/22	07/26/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/25/22	07/26/22	
Surrogate: Toluene-d8	91.8 %	70-130		07/25/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230087
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/26/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		07/25/22	07/26/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/25/22	07/26/22	
Surrogate: Toluene-d8	91.8 %	70-130		07/25/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230090
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/22	07/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/22	07/25/22	
Surrogate: n-Nonane	104 %	50-200		07/25/22	07/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2230094
Chloride	200	20.0	1	07/22/22	07/25/22	



QC Summary Data

Pitts Energy	Project Name:	Fed 54	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/26/2022 5:00:08PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2230087-BLK1)

Prepared: 07/25/22 Analyzed: 07/26/22

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	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.532		0.500		106	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.7	70-130			

LCS (2230087-BS1)

Prepared: 07/25/22 Analyzed: 07/25/22

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.54	0.0250	2.50		101	70-130			
Toluene	2.51	0.0250	2.50		101	70-130			
o-Xylene	2.67	0.0250	2.50		107	70-130			
p,m-Xylene	5.17	0.0500	5.00		103	70-130			
Total Xylenes	7.84	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.551		0.500		110	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

LCS Dup (2230087-BSD1)

Prepared: 07/25/22 Analyzed: 07/25/22

Benzene	2.59	0.0250	2.50		103	70-130	0.444	23	
Ethylbenzene	2.60	0.0250	2.50		104	70-130	2.45	27	
Toluene	2.57	0.0250	2.50		103	70-130	2.30	24	
o-Xylene	2.72	0.0250	2.50		109	70-130	1.89	27	
p,m-Xylene	5.32	0.0500	5.00		106	70-130	2.92	27	
Total Xylenes	8.04	0.0250	7.50		107	70-130	2.57	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.531		0.500		106	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/26/2022 5:00:08PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230087-BLK1)

Prepared: 07/25/22 Analyzed: 07/26/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.532		0.500		106	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.7	70-130			

LCS (2230087-BS2)

Prepared: 07/25/22 Analyzed: 07/26/22

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0		79.8	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			

LCS Dup (2230087-BSD2)

Prepared: 07/25/22 Analyzed: 07/25/22

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.3	70-130	6.62	20	
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/26/2022 5:00:08PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2230090-BLK1)

Prepared: 07/22/22 Analyzed: 07/25/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.0		50.0		81.9	50-200			

LCS (2230090-BS1)

Prepared: 07/22/22 Analyzed: 07/25/22

Diesel Range Organics (C10-C28)	225	25.0	250		89.9	38-132			
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			

Matrix Spike (2230090-MS1)

Source: E207154-03

Prepared: 07/22/22 Analyzed: 07/25/22

Diesel Range Organics (C10-C28)	797	25.0	250	389	163	38-132			M2
Surrogate: n-Nonane	44.2		50.0		88.5	50-200			

Matrix Spike Dup (2230090-MSD1)

Source: E207154-03

Prepared: 07/22/22 Analyzed: 07/25/22

Diesel Range Organics (C10-C28)	766	25.0	250	389	151	38-132	3.92	20	M2
Surrogate: n-Nonane	43.7		50.0		87.3	50-200			



QC Summary Data

Pitts Energy	Project Name:	Fed 54	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/26/2022 5:00:08PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2230094-BLK1)					Prepared: 07/22/22 Analyzed: 07/25/22				
Chloride	ND	20.0							
LCS (2230094-BS1)					Prepared: 07/22/22 Analyzed: 07/25/22				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2230094-BSD1)					Prepared: 07/22/22 Analyzed: 07/25/22				
Chloride	257	20.0	250		103	90-110	0.531	20	

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



Definitions and Notes

Pitts Energy	Project Name:	Fed 54	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/26/22 17:00

- 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.



Project Information

Chain of Custody

Page 1 of 1

2 Day

Client: Pitts Energy
 Project: Red 54
 Project Manager:
 Address:
 City, State, Zip
 Phone:
 Email:

Report Attention
 Report due by: ESS
 Attention: Natalie G. Gaudin
 Address: 2724 NW Co Rd
 City, State, Zip: Hobbs, NM 88240
 Phone: 575 390 6397
 Email: Natalie@EnergyStaffing
LLC. Con

Lab Use Only
 Lab WO# PE201153 Job Number 20046-0001
 TAT
 1D 3D
 EPA Program
 RCRA CWA SDWA

Analysis and Method
 DRO/DRO by 8015
 GRO/DRO by 8015
 BTEX by 8021
 VOC by 8260
 Chloride 300.0
 TCEQ 1005
 BGDOC - NM
 BGDOC - TX
 State
 NM CO UT AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
	7-20	S	1	SP5-20-BTY	1							✓		
	7-20	S	1	SP6-40-BTY	2							✓		

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>7-20-22</u>	Time <u>2:31</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>7-21-22</u>	Time <u>3:00</u>	Lab Use Only Received on ice: <u>Y/N</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>7-21-22</u>	Time <u>4:5</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>7-25-22</u>	Time <u>10:15</u>	T1 T2 T3 AVG Temp °C <u>4</u>

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

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

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



5795 US Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone: (800) 352-1870

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com

labadmin@envirotech-inc.com

Envirotech Analytical Laboratory

Printed: 7/25/2022 12:26:40PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/25/22 10:15	Work Order ID:	E207153
Phone:	(432) 425-8235	Date Logged In:	07/22/22 09:11	Logged In By:	Caitlin Christian
Email:		Due Date:	07/25/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207163

Job Number: 20046-0001

Received: 7/25/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/26/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/26/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207163
Date Received: 7/25/2022 8:23:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2022 8:23:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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rainaschwanz@envirotech-inc.com

Alexa Michaels
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ljjarboe@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

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	07/26/22 16:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP3 - 36' - Bty	E207163-01A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/26/2022 4:05:30PM
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SP3 - 36' - Bty

E207163-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2231009	
Benzene	ND	0.0250	1	07/25/22	07/26/22	
Ethylbenzene	1.44	0.0250	1	07/25/22	07/26/22	
Toluene	0.669	0.0250	1	07/25/22	07/26/22	
o-Xylene	4.03	0.0250	1	07/25/22	07/26/22	
p,m-Xylene	6.95	0.0500	1	07/25/22	07/26/22	
Total Xylenes	11.0	0.0250	1	07/25/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID	127 %	70-130		07/25/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2231009	
Gasoline Range Organics (C6-C10)	156	20.0	1	07/25/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	131 %	70-130		07/25/22	07/26/22	S3
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2231024	
Diesel Range Organics (C10-C28)	5100	500	20	07/25/22	07/26/22	
Oil Range Organics (C28-C36)	ND	1000	20	07/25/22	07/26/22	
Surrogate: n-Nonane	177 %	50-200		07/25/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2231016	
Chloride	159	20.0	1	07/25/22	07/25/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/26/2022 4:05:30PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231009-BLK1)

Prepared: 07/25/22 Analyzed: 07/26/22

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	8.99		8.00		112	70-130			

LCS (2231009-BS1)

Prepared: 07/25/22 Analyzed: 07/26/22

Benzene	4.48	0.0250	5.00		89.5	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.1	70-130			
Toluene	4.50	0.0250	5.00		90.1	70-130			
o-Xylene	4.56	0.0250	5.00		91.1	70-130			
p,m-Xylene	8.93	0.0500	10.0		89.3	70-130			
Total Xylenes	13.5	0.0250	15.0		89.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.28		8.00		116	70-130			

LCS Dup (2231009-BSD1)

Prepared: 07/25/22 Analyzed: 07/26/22

Benzene	4.34	0.0250	5.00		86.8	70-130	3.09	20	
Ethylbenzene	4.28	0.0250	5.00		85.5	70-130	3.02	20	
Toluene	4.37	0.0250	5.00		87.3	70-130	3.08	20	
o-Xylene	4.45	0.0250	5.00		88.9	70-130	2.48	20	
p,m-Xylene	8.67	0.0500	10.0		86.7	70-130	3.00	20	
Total Xylenes	13.1	0.0250	15.0		87.4	70-130	2.82	20	
Surrogate: 4-Bromochlorobenzene-PID	9.17		8.00		115	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/26/2022 4:05:30PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231009-BLK1)

Prepared: 07/25/22 Analyzed: 07/26/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			

LCS (2231009-BS2)

Prepared: 07/25/22 Analyzed: 07/26/22

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			

LCS Dup (2231009-BSD2)

Prepared: 07/25/22 Analyzed: 07/26/22

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130	3.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.82		8.00		110	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/26/2022 4:05:30PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231024-BLK1)

Prepared: 07/25/22 Analyzed: 07/25/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	47.4		50.0		94.8	50-200			

LCS (2231024-BS1)

Prepared: 07/25/22 Analyzed: 07/25/22

Diesel Range Organics (C10-C28)	250	25.0	250		99.8	38-132			
Surrogate: <i>n</i> -Nonane	47.9		50.0		95.9	50-200			

Matrix Spike (2231024-MS1)

Source: E207165-06

Prepared: 07/25/22 Analyzed: 07/25/22

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: <i>n</i> -Nonane	49.9		50.0		99.8	50-200			

Matrix Spike Dup (2231024-MSD1)

Source: E207165-06

Prepared: 07/25/22 Analyzed: 07/25/22

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	1.48	20	
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/26/2022 4:05:30PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231016-BLK1)

Prepared: 07/25/22 Analyzed: 07/25/22

Chloride ND 20.0

LCS (2231016-BS1)

Prepared: 07/25/22 Analyzed: 07/25/22

Chloride 245 20.0 250 97.8 90-110

Matrix Spike (2231016-MS1)

Source: E207140-01

Prepared: 07/25/22 Analyzed: 07/25/22

Chloride 249 20.0 250 ND 99.4 80-120

Matrix Spike Dup (2231016-MSD1)

Source: E207140-01

Prepared: 07/25/22 Analyzed: 07/25/22

Chloride 249 20.0 250 ND 99.7 80-120 0.256 20

QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/26/22 16:05

- S3 Surrogate spike recovery was outside acceptance limits. 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.



Page 11 of 12

Envirotech Analytical Laboratory

Printed: 7/25/2022 2:17:17PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/25/22 08:23	Work Order ID:	E207163
Phone:	(432) 425-8235	Date Logged In:	07/25/22 08:43	Logged In By:	Caitlin Christian
Email:		Due Date:	07/26/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Fed 54 #1

Work Order: E207180

Job Number: 20046-0001

Received: 7/27/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/28/22

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.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 7/28/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Fed 54 #1
Workorder: E207180
Date Received: 7/27/2022 10:20:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/27/2022 10:20:00AM, under the Project Name: Fed 54 #1.

The analytical test results summarized in this report with the Project Name: Fed 54 #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
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West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
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Sample Summary

Pitts Energy	Project Name:	Fed 54 #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	07/28/22 15:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sep - SP - 5 - 26	E207180-01A	Soil	07/25/22	07/27/22	Glass Jar, 4 oz.
Sep - SP - 5 - 30	E207180-02A	Soil	07/25/22	07/27/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/28/2022 3:51:21PM
--	---	---

Sep - SP - 5 - 26

E207180-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2231049	
Benzene	ND	0.0250	1	07/27/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/27/22	07/28/22	
Toluene	ND	0.0250	1	07/27/22	07/28/22	
o-Xylene	ND	0.0250	1	07/27/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/27/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/27/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID	97.5 %	70-130		07/27/22	07/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2231049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		07/27/22	07/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2231041	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/27/22	
Surrogate: n-Nonane	89.5 %	50-200		07/27/22	07/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2231054	
Chloride	1780	20.0	1	07/27/22	07/27/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/28/2022 3:51:21PM

Sep - SP - 5 - 30

E207180-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2231049
Benzene	ND	0.0250	1	07/27/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/27/22	07/28/22	
Toluene	ND	0.0250	1	07/27/22	07/28/22	
o-Xylene	ND	0.0250	1	07/27/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/27/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/27/22	07/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		07/27/22	07/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2231049
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/22	07/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		07/27/22	07/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231041
Diesel Range Organics (C10-C28)	92.5	25.0	1	07/27/22	07/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/27/22	
<i>Surrogate: n-Nonane</i>						
	86.9 %	50-200		07/27/22	07/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231054
Chloride	1720	20.0	1	07/27/22	07/27/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/28/2022 3:51:21PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231049-BLK1)

Prepared: 07/27/22 Analyzed: 07/27/22

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	7.97		8.00		99.6	70-130			

LCS (2231049-BS1)

Prepared: 07/27/22 Analyzed: 07/27/22

Benzene	4.53	0.0250	5.00		90.6	70-130			
Ethylbenzene	3.94	0.0250	5.00		78.8	70-130			
Toluene	4.26	0.0250	5.00		85.2	70-130			
o-Xylene	4.25	0.0250	5.00		84.9	70-130			
p,m-Xylene	8.15	0.0500	10.0		81.5	70-130			
Total Xylenes	12.4	0.0250	15.0		82.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		101	70-130			

LCS Dup (2231049-BS1)

Prepared: 07/27/22 Analyzed: 07/27/22

Benzene	4.78	0.0250	5.00		95.6	70-130	5.31	20	
Ethylbenzene	4.15	0.0250	5.00		83.0	70-130	5.19	20	
Toluene	4.49	0.0250	5.00		89.9	70-130	5.29	20	
o-Xylene	4.47	0.0250	5.00		89.3	70-130	5.09	20	
p,m-Xylene	8.58	0.0500	10.0		85.8	70-130	5.12	20	
Total Xylenes	13.0	0.0250	15.0		87.0	70-130	5.11	20	
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			



QC Summary Data

Pitts Energy	Project Name:	Fed 54 #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/28/2022 3:51:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231049-BLK1)

Prepared: 07/27/22 Analyzed: 07/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

LCS (2231049-BS2)

Prepared: 07/27/22 Analyzed: 07/27/22

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

LCS Dup (2231049-BSD2)

Prepared: 07/27/22 Analyzed: 07/27/22

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130	2.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/28/2022 3:51:21PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231041-BLK1)

Prepared: 07/27/22 Analyzed: 07/27/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.0		50.0		88.1	50-200			

LCS (2231041-BS1)

Prepared: 07/27/22 Analyzed: 07/27/22

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	42.8		50.0		85.6	50-200			

Matrix Spike (2231041-MS1)

Source: E207182-01

Prepared: 07/27/22 Analyzed: 07/28/22

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	49.6		50.0		99.1	50-200			

Matrix Spike Dup (2231041-MSD1)

Source: E207182-01

Prepared: 07/27/22 Analyzed: 07/28/22

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	4.10	20	
Surrogate: n-Nonane	59.2		50.0		118	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/28/2022 3:51:21PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231054-BLK1)

Prepared: 07/27/22 Analyzed: 07/27/22

Chloride	ND	20.0							
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LCS (2231054-BS1)

Prepared: 07/27/22 Analyzed: 07/27/22

Chloride	251	20.0	250		101	90-110			
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Matrix Spike (2231054-MS1)

Source: E207180-01

Prepared: 07/27/22 Analyzed: 07/27/22

Chloride	2060	20.0	250	1780	110	80-120			
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Matrix Spike Dup (2231054-MSD1)

Source: E207180-01

Prepared: 07/27/22 Analyzed: 07/27/22

Chloride	2040	20.0	250	1780	102	80-120	1.02	20	
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QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Fed 54 #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/28/22 15:51

- 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.



Project Information

Chain of Custody

Page 1 of 1

2P

Client: Pitt Energy
 Project: Fed 54 #1
 Project Manager: Zach
 Address:
 City, State, Zip
 Phone:
 Email:

Report Attention
 Report due by: ESS
 Attention: Marta Gueden
 Address: 2724 NW CR
 City, State, Zip: Hobbs, NM, 88640
 Phone: 575 390, 6397
 Email: Marta Gueden @ Energy Services LLC

Lab Use Only
 Lab WO# PE207180 Job Number 200460001
 TAT
 1D 3D RCRA CWA SDWA

Analysis and Method
 DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Chloride 300.0 TCEQ 1005 BGDOC - NM BGDOC - TX
 State
 NM CO UT AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
	7-25	S	1	Sep-SP-5-26	1							✓		
	7-25	S	1	Sep-SP-5-30	2							✓		

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>7-25-22</u>	Time	Received by: (Signature) <u>[Signature]</u>	Date <u>7-26-22</u>	Time <u>2:23p</u>	Lab Use Only Received on ice: <u>Y</u> / N
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>7-26-22</u>	Time <u>4:15</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>7-27-22</u>	Time <u>10:20</u>	T1 T2 T3 AVG Temp °C <u>4</u>

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

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

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

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207188

Job Number: 20046-0001

Received: 7/29/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/29/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/29/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207188
Date Received: 7/29/2022 9:50:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/29/2022 9:50:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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whinchman@envirotech-inc.com

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West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	07/29/22 18:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP5 - 36' Sep	E207188-01A	Solid	07/28/22	07/29/22	Glass Jar, 4 oz.
SP5 - 36' Bty	E207188-02A	Solid	07/28/22	07/29/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/29/2022 6:18:37PM
--	--	----------------------------------

SP5 - 36' Sep

E207188-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2231074
Benzene	ND	0.0250	1	07/28/22	07/29/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/29/22	
Toluene	ND	0.0250	1	07/28/22	07/29/22	
o-Xylene	ND	0.0250	1	07/28/22	07/29/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/29/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/29/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/28/22	07/29/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		07/28/22	07/29/22	
Surrogate: Toluene-d8	105 %	70-130		07/28/22	07/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2231074
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/29/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/28/22	07/29/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		07/28/22	07/29/22	
Surrogate: Toluene-d8	105 %	70-130		07/28/22	07/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231063
Diesel Range Organics (C10-C28)	228	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	116	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	88.8 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231076
Chloride	196	20.0	1	07/28/22	07/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2022 6:18:37PM

SP5 - 36' Bty

E207188-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2231074
Benzene	ND	0.0250	1	07/28/22	07/29/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/29/22	
Toluene	ND	0.0250	1	07/28/22	07/29/22	
o-Xylene	ND	0.0250	1	07/28/22	07/29/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/29/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/29/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/28/22	07/29/22	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	07/28/22	07/29/22	
Surrogate: Toluene-d8		107 %	70-130	07/28/22	07/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2231074
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/29/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/28/22	07/29/22	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	07/28/22	07/29/22	
Surrogate: Toluene-d8		107 %	70-130	07/28/22	07/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231063
Diesel Range Organics (C10-C28)	484	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	146	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane		91.2 %	50-200	07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231076
Chloride	115	20.0	1	07/28/22	07/29/22	



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/29/2022 6:18:37PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2231074-BLK1)

Prepared: 07/28/22 Analyzed: 07/29/22

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	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2231074-BS1)

Prepared: 07/28/22 Analyzed: 07/29/22

Benzene	2.61	0.0250	2.50		105	70-130			
Ethylbenzene	2.70	0.0250	2.50		108	70-130			
Toluene	2.63	0.0250	2.50		105	70-130			
o-Xylene	2.54	0.0250	2.50		101	70-130			
p,m-Xylene	5.03	0.0500	5.00		101	70-130			
Total Xylenes	7.57	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS Dup (2231074-BSD1)

Prepared: 07/28/22 Analyzed: 07/29/22

Benzene	2.63	0.0250	2.50		105	70-130	0.401	23	
Ethylbenzene	2.74	0.0250	2.50		109	70-130	1.29	27	
Toluene	2.65	0.0250	2.50		106	70-130	0.720	24	
o-Xylene	2.57	0.0250	2.50		103	70-130	1.39	27	
p,m-Xylene	5.11	0.0500	5.00		102	70-130	1.57	27	
Total Xylenes	7.68	0.0250	7.50		102	70-130	1.51	27	
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/29/2022 6:18:37PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231074-BLK1)

Prepared: 07/28/22 Analyzed: 07/29/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2231074-BS2)

Prepared: 07/28/22 Analyzed: 07/29/22

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0		113	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS Dup (2231074-BSD2)

Prepared: 07/28/22 Analyzed: 07/29/22

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130	0.594	20	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 7/29/2022 6:18:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231063-BLK1)

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	58.2		50.0		116	50-200			

LCS (2231063-BS1)

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	242	25.0	250		96.7	38-132			
Surrogate: <i>n</i> -Nonane	51.8		50.0		104	50-200			

Matrix Spike (2231063-MS1)

Source: E207176-04

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: <i>n</i> -Nonane	49.7		50.0		99.3	50-200			

Matrix Spike Dup (2231063-MSD1)

Source: E207176-04

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	0.0412	20	
Surrogate: <i>n</i> -Nonane	50.6		50.0		101	50-200			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	7/29/2022 6:18:37PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2231076-BLK1)					Prepared: 07/28/22 Analyzed: 07/29/22				
Chloride	ND	20.0							
LCS (2231076-BS1)					Prepared: 07/28/22 Analyzed: 07/29/22				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2231076-BSD1)					Prepared: 07/28/22 Analyzed: 07/29/22				
Chloride	261	20.0	250		104	90-110	3.35	20	

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	07/29/22 18:18

- 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

Chain of Custody

Page 1 of 1

Client: RHC Energy
 Project: Academy St Well #1
 Project Manager:
 Address:
 City, State, Zip
 Phone:
 Email:
 Report due by:

Bill To
 Attention: ESS
 Address: 2724 NW County Rd
 City, State, Zip Hobbs NM 88240
 Phone: 575 390 6397
 Email: Natalie Gladden

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E207188</u>	<u>2046-001</u>		<input checked="" type="checkbox"/>				
Analysis and Method							
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
State							
NM	CO	UT	AZ	TX			
<input checked="" type="checkbox"/>							
Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
	7/26	S	1	SPS - 36' - SPS Sep 1	1
	7/26	S	1	SP3 - 40' - SP3 Btg 2	2

Additional Instructions:

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

Sampled by: Jarvis Pender

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <u>Jarvis Pender</u>	Date <u>7/26/22</u>	Time <u>2:10</u>	Received by: (Signature) <u>Natalie Gladden</u>	Date <u>7-27-22</u>	Time <u>3:15</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>7-27-22</u>	Time <u>4:15</u>	Received by: (Signature) <u>Chelle Chute</u>	Date <u>7/29/22</u>	Time <u>9:50</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only		
Received on ice:	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	
T1	T2	T3
AVG Temp °C <u>4</u>		

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

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

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

Envirotech Analytical Laboratory

Printed: 7/29/2022 10:56:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/29/22 09:50	Work Order ID:	E207188
Phone:	(432) 425-8235	Date Logged In:	07/28/22 08:39	Logged In By:	Alexa Michaels
Email:		Due Date:	07/29/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Project manager and time sampled not provided on the COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E207194

Job Number: 20046-0001

Received: 7/29/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/1/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/1/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E207194
Date Received: 7/29/2022 9:50:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/29/2022 9:50:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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Laboratory Administrator
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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name:	Federal 54 Well #1	Reported: 08/01/22 16:07
	Project Number:	20046-0001	
	Project Manager:	Natalie Gladden	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 - 16' - Sep	E207194-01A	Soil	07/27/22	07/29/22	Glass Jar, 4 oz.
SP1 - 20' - Sep	E207194-02A	Soil	07/27/22	07/29/22	Glass Jar, 4 oz.
SP1 - 24' - Sep	E207194-03A	Soil	07/27/22	07/29/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/1/2022 4:07:53PM
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SP1 - 16' - Sep

E207194-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2231073	
Benzene	ND	0.0500	2	07/29/22	07/30/22	
Ethylbenzene	0.577	0.0500	2	07/29/22	07/30/22	
Toluene	0.0943	0.0500	2	07/29/22	07/30/22	
o-Xylene	0.469	0.0500	2	07/29/22	07/30/22	
p,m-Xylene	3.38	0.100	2	07/29/22	07/30/22	
Total Xylenes	3.85	0.0500	2	07/29/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		07/29/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2231073	
Gasoline Range Organics (C6-C10)	54.9	40.0	2	07/29/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		07/29/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2231067	
Diesel Range Organics (C10-C28)	5500	250	10	07/29/22	08/01/22	
Oil Range Organics (C28-C36)	622	500	10	07/29/22	08/01/22	
Surrogate: n-Nonane	158 %	50-200		07/29/22	08/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2231078	
Chloride	1250	20.0	1	07/28/22	07/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/1/2022 4:07:53PM

SP1 - 20' - Sep

E207194-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2231073
Benzene	ND	0.0250	1	07/29/22	07/29/22	
Ethylbenzene	ND	0.0250	1	07/29/22	07/29/22	
Toluene	ND	0.0250	1	07/29/22	07/29/22	
o-Xylene	ND	0.0250	1	07/29/22	07/29/22	
p,m-Xylene	0.0582	0.0500	1	07/29/22	07/29/22	
Total Xylenes	0.0582	0.0250	1	07/29/22	07/29/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	07/29/22	07/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2231073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/22	07/29/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	07/29/22	07/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231067
Diesel Range Organics (C10-C28)	349	25.0	1	07/29/22	07/30/22	
Oil Range Organics (C28-C36)	234	50.0	1	07/29/22	07/30/22	
<i>Surrogate: n-Nonane</i>						
		93.8 %	50-200	07/29/22	07/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231078
Chloride	620	20.0	1	07/28/22	07/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/1/2022 4:07:53PM

SP1 - 24' - Sep

E207194-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2231073
Benzene	ND	0.0250	1	07/29/22	07/29/22	
Ethylbenzene	ND	0.0250	1	07/29/22	07/29/22	
Toluene	ND	0.0250	1	07/29/22	07/29/22	
o-Xylene	ND	0.0250	1	07/29/22	07/29/22	
p,m-Xylene	ND	0.0500	1	07/29/22	07/29/22	
Total Xylenes	ND	0.0250	1	07/29/22	07/29/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		07/29/22	07/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2231073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/22	07/29/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		07/29/22	07/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231067
Diesel Range Organics (C10-C28)	54.9	25.0	1	07/29/22	07/30/22	
Oil Range Organics (C28-C36)	90.0	50.0	1	07/29/22	07/30/22	
<i>Surrogate: n-Nonane</i>						
	98.2 %	50-200		07/29/22	07/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231078
Chloride	625	20.0	1	07/28/22	07/29/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/1/2022 4:07:53PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231073-BLK1)

Prepared: 07/29/22 Analyzed: 07/29/22

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	7.72		8.00		96.5	70-130			

LCS (2231073-BS1)

Prepared: 07/29/22 Analyzed: 07/29/22

Benzene	4.71	0.0250	5.00		94.2	70-130			
Ethylbenzene	4.05	0.0250	5.00		80.9	70-130			
Toluene	4.40	0.0250	5.00		88.1	70-130			
o-Xylene	4.35	0.0250	5.00		87.1	70-130			
p,m-Xylene	8.34	0.0500	10.0		83.4	70-130			
Total Xylenes	12.7	0.0250	15.0		84.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.8	70-130			

LCS Dup (2231073-BSD1)

Prepared: 07/29/22 Analyzed: 07/29/22

Benzene	4.88	0.0250	5.00		97.6	70-130	3.51	20	
Ethylbenzene	4.23	0.0250	5.00		84.5	70-130	4.40	20	
Toluene	4.58	0.0250	5.00		91.7	70-130	4.00	20	
o-Xylene	4.55	0.0250	5.00		90.9	70-130	4.37	20	
p,m-Xylene	8.74	0.0500	10.0		87.4	70-130	4.63	20	
Total Xylenes	13.3	0.0250	15.0		88.5	70-130	4.54	20	
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.6	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/1/2022 4:07:53PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231073-BLK1)

Prepared: 07/29/22 Analyzed: 07/29/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

LCS (2231073-BS2)

Prepared: 07/29/22 Analyzed: 07/29/22

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			

LCS Dup (2231073-BSD2)

Prepared: 07/29/22 Analyzed: 07/29/22

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130	6.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/1/2022 4:07:53PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231067-BLK1)

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	47.6		50.0		95.2	50-200			

LCS (2231067-BS1)

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	239	25.0	250		95.7	38-132			
Surrogate: <i>n</i> -Nonane	47.8		50.0		95.6	50-200			

Matrix Spike (2231067-MS1)

Source: E207186-06

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: <i>n</i> -Nonane	47.2		50.0		94.4	50-200			

Matrix Spike Dup (2231067-MSD1)

Source: E207186-06

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	1.26	20	
Surrogate: <i>n</i> -Nonane	43.4		50.0		86.7	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/1/2022 4:07:53PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231078-BLK1)

Prepared: 07/28/22 Analyzed: 07/29/22

Chloride ND 20.0

LCS (2231078-BS1)

Prepared: 07/28/22 Analyzed: 07/29/22

Chloride 262 20.0 250 105 90-110

Matrix Spike (2231078-MS1)

Source: E207179-01

Prepared: 07/28/22 Analyzed: 07/29/22

Chloride 264 20.0 250 ND 106 80-120

Matrix Spike Dup (2231078-MSD1)

Source: E207179-01

Prepared: 07/28/22 Analyzed: 07/29/22

Chloride 266 20.0 250 ND 106 80-120 0.716 20

QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	08/01/22 16:07

- 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.



Envirotech Analytical Laboratory

Printed: 7/29/2022 11:00:40AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	07/29/22 09:50	Work Order ID:	E207194
Phone:	(432) 425-8235	Date Logged In:	07/29/22 08:50	Logged In By:	Caitlin Christian
Email:		Due Date:	08/01/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E208002

Job Number: 20046-0001

Received: 8/1/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/2/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/2/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E208002
Date Received: 8/1/2022 8:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/1/2022 8:15:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Sample Summary

Pitts Energy	Project Name:	Federal 54 Well #1	Reported: 08/02/22 16:20
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP2 - 16' - Sep	E208002-01A	Soil	07/28/22	08/01/22	Glass Jar, 4 oz.
SP2 - 20' - Sep	E208002-02A	Soil	07/28/22	08/01/22	Glass Jar, 4 oz.
SP2 - 26' - Sep	E208002-03A	Soil	07/28/22	08/01/22	Glass Jar, 4 oz.
SP4 - 16' - Sep	E208002-04A	Soil	07/28/22	08/01/22	Glass Jar, 4 oz.
SP4 - 20' - Sep	E208002-05A	Soil	07/28/22	08/01/22	Glass Jar, 4 oz.
SP4 - 22' - Sep	E208002-06A	Soil	07/28/22	08/01/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/2/2022 4:20:30PM
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SP2 - 16' - Sep

E208002-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2232011	
Benzene	ND	0.0250	1	08/01/22	08/01/22	
Ethylbenzene	ND	0.0250	1	08/01/22	08/01/22	
Toluene	ND	0.0250	1	08/01/22	08/01/22	
o-Xylene	ND	0.0250	1	08/01/22	08/01/22	
p,m-Xylene	ND	0.0500	1	08/01/22	08/01/22	
Total Xylenes	ND	0.0250	1	08/01/22	08/01/22	
Surrogate: 4-Bromochlorobenzene-PID	124 %	70-130		08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2232011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/22	08/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	119 %	70-130		08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2232012	
Diesel Range Organics (C10-C28)	793	25.0	1	08/01/22	08/01/22	
Oil Range Organics (C28-C36)	234	50.0	1	08/01/22	08/01/22	
Surrogate: n-Nonane	74.5 %	50-200		08/01/22	08/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL		Batch: 2232004	
Chloride	301	20.0	1	08/01/22	08/01/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/2/2022 4:20:30PM

SP2 - 20' - Sep

E208002-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232011
Benzene	ND	0.0250	1	08/01/22	08/01/22	
Ethylbenzene	ND	0.0250	1	08/01/22	08/01/22	
Toluene	ND	0.0250	1	08/01/22	08/01/22	
o-Xylene	ND	0.0250	1	08/01/22	08/01/22	
p,m-Xylene	0.0740	0.0500	1	08/01/22	08/01/22	
Total Xylenes	0.0740	0.0250	1	08/01/22	08/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		123 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232011
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/22	08/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		117 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2232012
Diesel Range Organics (C10-C28)	930	25.0	1	08/01/22	08/01/22	
Oil Range Organics (C28-C36)	184	50.0	1	08/01/22	08/01/22	
<i>Surrogate: n-Nonane</i>						
		72.6 %	50-200	08/01/22	08/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2232004
Chloride	1560	20.0	1	08/01/22	08/01/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/2/2022 4:20:30PM

SP2 - 26' - Sep

E208002-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232011
Benzene	ND	0.0250	1	08/01/22	08/01/22	
Ethylbenzene	ND	0.0250	1	08/01/22	08/01/22	
Toluene	ND	0.0250	1	08/01/22	08/01/22	
o-Xylene	ND	0.0250	1	08/01/22	08/01/22	
p,m-Xylene	ND	0.0500	1	08/01/22	08/01/22	
Total Xylenes	ND	0.0250	1	08/01/22	08/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		120 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232011
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/22	08/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		115 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2232012
Diesel Range Organics (C10-C28)	81.1	25.0	1	08/01/22	08/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/22	08/01/22	
<i>Surrogate: n-Nonane</i>						
		69.6 %	50-200	08/01/22	08/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2232004
Chloride	577	20.0	1	08/01/22	08/01/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/2/2022 4:20:30PM

SP4 - 16' - Sep

E208002-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232011
Benzene	ND	0.0250	1	08/01/22	08/01/22	
Ethylbenzene	ND	0.0250	1	08/01/22	08/01/22	
Toluene	ND	0.0250	1	08/01/22	08/01/22	
o-Xylene	ND	0.0250	1	08/01/22	08/01/22	
p,m-Xylene	ND	0.0500	1	08/01/22	08/01/22	
Total Xylenes	ND	0.0250	1	08/01/22	08/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232011
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/22	08/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		119 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2232012
Diesel Range Organics (C10-C28)	299	25.0	1	08/01/22	08/01/22	
Oil Range Organics (C28-C36)	62.0	50.0	1	08/01/22	08/01/22	
<i>Surrogate: n-Nonane</i>						
		63.2 %	50-200	08/01/22	08/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2232004
Chloride	262	20.0	1	08/01/22	08/01/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/2/2022 4:20:30PM

SP4 - 20' - Sep

E208002-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232011	
Benzene	ND	0.0250	1	08/01/22	08/01/22	
Ethylbenzene	ND	0.0250	1	08/01/22	08/01/22	
Toluene	ND	0.0250	1	08/01/22	08/01/22	
o-Xylene	ND	0.0250	1	08/01/22	08/01/22	
p,m-Xylene	ND	0.0500	1	08/01/22	08/01/22	
Total Xylenes	ND	0.0250	1	08/01/22	08/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		120 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/22	08/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		112 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2232012	
Diesel Range Organics (C10-C28)	55.7	25.0	1	08/01/22	08/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/22	08/01/22	
<i>Surrogate: n-Nonane</i>						
		69.7 %	50-200	08/01/22	08/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2232004	
Chloride	822	20.0	1	08/01/22	08/01/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/2/2022 4:20:30PM

SP4 - 22' - Sep

E208002-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232011
Benzene	ND	0.0250	1	08/01/22	08/01/22	
Ethylbenzene	ND	0.0250	1	08/01/22	08/01/22	
Toluene	ND	0.0250	1	08/01/22	08/01/22	
o-Xylene	ND	0.0250	1	08/01/22	08/01/22	
p,m-Xylene	ND	0.0500	1	08/01/22	08/01/22	
Total Xylenes	ND	0.0250	1	08/01/22	08/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		118 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232011
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/22	08/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	08/01/22	08/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2232012
Diesel Range Organics (C10-C28)	27.9	25.0	1	08/01/22	08/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/22	08/01/22	
<i>Surrogate: n-Nonane</i>						
		50.1 %	50-200	08/01/22	08/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2232004
Chloride	803	20.0	1	08/01/22	08/01/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/2/2022 4:20:30PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232011-BLK1)

Prepared: 08/01/22 Analyzed: 08/01/22

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	9.30		8.00		116	70-130			

LCS (2232011-BS1)

Prepared: 08/01/22 Analyzed: 08/01/22

Benzene	4.58	0.0250	5.00		91.6	70-130			
Ethylbenzene	4.54	0.0250	5.00		90.9	70-130			
Toluene	4.63	0.0250	5.00		92.5	70-130			
o-Xylene	4.71	0.0250	5.00		94.3	70-130			
p,m-Xylene	9.23	0.0500	10.0		92.3	70-130			
Total Xylenes	13.9	0.0250	15.0		93.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.35		8.00		117	70-130			

LCS Dup (2232011-BS1)

Prepared: 08/01/22 Analyzed: 08/02/22

Benzene	4.58	0.0250	5.00		91.5	70-130	0.118	20	
Ethylbenzene	4.54	0.0250	5.00		90.7	70-130	0.169	20	
Toluene	4.63	0.0250	5.00		92.7	70-130	0.202	20	
o-Xylene	4.69	0.0250	5.00		93.9	70-130	0.434	20	
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130	0.334	20	
Total Xylenes	13.9	0.0250	15.0		92.6	70-130	0.367	20	
Surrogate: 4-Bromochlorobenzene-PID	9.08		8.00		113	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/2/2022 4:20:30PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232011-BLK1)

Prepared: 08/01/22 Analyzed: 08/01/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		8.00		105	70-130			

LCS (2232011-BS2)

Prepared: 08/01/22 Analyzed: 08/02/22

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			

LCS Dup (2232011-BSD2)

Prepared: 08/01/22 Analyzed: 08/02/22

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130	0.0668	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		8.00		106	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/2/2022 4:20:30PM
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Nonhalogenated Organics by 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
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Blank (2232012-BLK1)

Prepared: 08/01/22 Analyzed: 08/01/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	36.8		50.0		73.5	50-200			

LCS (2232012-BS1)

Prepared: 08/01/22 Analyzed: 08/01/22

Diesel Range Organics (C10-C28)	201	25.0	250		80.6	38-132			
Surrogate: <i>n</i> -Nonane	36.1		50.0		72.1	50-200			

Matrix Spike (2232012-MS1)

Source: E208002-04

Prepared: 08/01/22 Analyzed: 08/01/22

Diesel Range Organics (C10-C28)	434	25.0	250	299	54.3	38-132			R3
Surrogate: <i>n</i> -Nonane	38.3		50.0		76.6	50-200			

Matrix Spike Dup (2232012-MSD1)

Source: E208002-04

Prepared: 08/01/22 Analyzed: 08/01/22

Diesel Range Organics (C10-C28)	561	25.0	250	299	105	38-132	25.5	20	R3
Surrogate: <i>n</i> -Nonane	33.8		50.0		67.5	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/2/2022 4:20:30PM
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Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232004-BLK1)

Prepared: 08/01/22 Analyzed: 08/01/22

Chloride	ND	20.0
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LCS (2232004-BS1)

Prepared: 08/01/22 Analyzed: 08/01/22

Chloride	244	20.0	250	97.4	90-110
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Matrix Spike (2232004-MS1)

Source: E208001-01

Prepared: 08/01/22 Analyzed: 08/01/22

Chloride	355	20.0	250	109	98.3	80-120
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Matrix Spike Dup (2232004-MSD1)

Source: E208001-01

Prepared: 08/01/22 Analyzed: 08/01/22

Chloride	357	20.0	250	109	99.2	80-120	0.616	20
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QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	08/02/22 16:20

- R3The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- NDAnalyte NOT DETECTED at or above the reporting limit
- NRNot Reported
- RPDRelative Percent Difference
- DNIDid 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.

[illegible]**Additional Instructions:**

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

Sampled by: Jordan Anderson Gresham

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>Jason Bader</i>	Date 7/28/22	Time	Received by: (Signature) <i>Leanne Mon</i>	Date 7-29-22	Time 3:15	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 7-29-22	Time 4:15	Received by: (Signature) <i>Carla Ch...</i>	Date 8/1/22	Time 8:15	
Relinquished by: (Signature) <i>[Signature]</i>	Date	Time	Received by: (Signature)	Date	Time	

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

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

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

Envirotech Analytical Laboratory

Printed: 8/1/2022 10:04:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	08/01/22 08:15	Work Order ID:	E208002
Phone:	(432) 425-8235	Date Logged In:	08/01/22 08:43	Logged In By:	Caitlin Christian
Email:		Due Date:	08/02/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

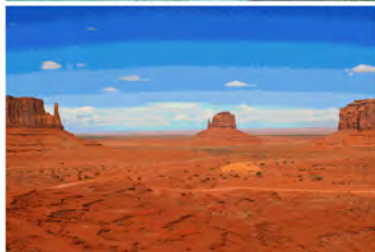
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E208019

Job Number: 20046-0001

Received: 8/3/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/4/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/4/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E208019
Date Received: 8/3/2022 10:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/3/2022 10:00:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

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Chain of Custody etc.

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Sample Summary

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name:	Federal 54 Well #1	Reported: 08/04/22 16:29
	Project Number:	20046-0001	
	Project Manager:	Natalie Gladden	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1 - Surf - Sep	E208019-01A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW1 - 2' - Sep	E208019-02A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW2 - Surf - Sep	E208019-03A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW2 - 2' - Sep	E208019-04A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW3 - Surf - Sep	E208019-05A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW3 - 2' - Sep	E208019-06A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW4 - Surf - Sep	E208019-07A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW4 - 2' - Sep	E208019-08A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW5 - Surf - Sep	E208019-09A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW5 - 2' - Sep	E208019-10A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW6 - Surf - Sep	E208019-11A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW6 - 2' - Sep	E208019-12A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW7 - Surf - Sep	E208019-13A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.
SW7 - 2' - Sep	E208019-14A	Soil	08/01/22	08/03/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/4/2022 4:29:08PM
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SW1 - Surf - Sep

E208019-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2232065	
Benzene	ND	0.0250	1	08/03/22	08/03/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/03/22	
Toluene	ND	0.0250	1	08/03/22	08/03/22	
o-Xylene	ND	0.0250	1	08/03/22	08/03/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/03/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	08/03/22	08/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2232065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	08/03/22	08/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2232069	
Diesel Range Organics (C10-C28)	172	50.0	2	08/03/22	08/03/22	
Oil Range Organics (C28-C36)	112	100	2	08/03/22	08/03/22	
<i>Surrogate: n-Nonane</i>		121 %	50-200	08/03/22	08/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2232067	
Chloride	64.1	20.0	1	08/03/22	08/03/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW1 - 2' - Sep

E208019-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/03/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/03/22	
Toluene	ND	0.0250	1	08/03/22	08/03/22	
o-Xylene	ND	0.0250	1	08/03/22	08/03/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/03/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	08/03/22	08/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	08/03/22	08/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	194	50.0	2	08/03/22	08/03/22	
Oil Range Organics (C28-C36)	131	100	2	08/03/22	08/03/22	
<i>Surrogate: n-Nonane</i>						
		130 %	50-200	08/03/22	08/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	64.9	20.0	1	08/03/22	08/03/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW2 - Surf - Sep

E208019-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/03/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/03/22	
Toluene	ND	0.0250	1	08/03/22	08/03/22	
o-Xylene	ND	0.0250	1	08/03/22	08/03/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/03/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	08/03/22	08/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	08/03/22	08/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	171	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	185	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
		128 %	50-200	08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	25.5	20.0	1	08/03/22	08/03/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW2 - 2' - Sep

E208019-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/03/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/03/22	
Toluene	ND	0.0250	1	08/03/22	08/03/22	
o-Xylene	ND	0.0250	1	08/03/22	08/03/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/03/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		08/03/22	08/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		08/03/22	08/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	50.0	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	69.3	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	125 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	ND	20.0	1	08/03/22	08/03/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW3 - Surf - Sep

E208019-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	132	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	156	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	123 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	174	20.0	1	08/03/22	08/03/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW3 - 2' - Sep

E208019-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	45.0	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	57.2	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	ND	20.0	1	08/03/22	08/03/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW4 - Surf - Sep

E208019-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	290	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	321	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	124 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	312	20.0	1	08/03/22	08/03/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW4 - 2' - Sep

E208019-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	136	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	133	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	126 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	422	20.0	1	08/03/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW5 - Surf - Sep

E208019-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	205	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	117	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	1800	20.0	1	08/03/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW5 - 2' - Sep

E208019-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232065	
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2232069	
Diesel Range Organics (C10-C28)	85.8	50.0	2	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	ND	100	2	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2232067	
Chloride	547	20.0	1	08/03/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW6 - Surf - Sep

E208019-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	335	125	5	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	384	250	5	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	384	20.0	1	08/03/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW6 - 2' - Sep

E208019-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232065	
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2232069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	126 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2232067	
Chloride	ND	20.0	1	08/03/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW7 - Surf - Sep

E208019-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.7 %	70-130	08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	293	50.0	2	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	388	100	2	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
		131 %	50-200	08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	28.9	20.0	1	08/03/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/4/2022 4:29:08PM

SW7 - 2' - Sep

E208019-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Benzene	ND	0.0250	1	08/03/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/04/22	
Toluene	ND	0.0250	1	08/03/22	08/04/22	
o-Xylene	ND	0.0250	1	08/03/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232065
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		08/03/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232069
Diesel Range Organics (C10-C28)	206	25.0	1	08/03/22	08/04/22	
Oil Range Organics (C28-C36)	230	50.0	1	08/03/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
	125 %	50-200		08/03/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232067
Chloride	96.0	20.0	1	08/03/22	08/04/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/4/2022 4:29:08PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232065-BLK1)

Prepared: 08/03/22 Analyzed: 08/03/22

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	8.07		8.00		101	70-130			

LCS (2232065-BS1)

Prepared: 08/03/22 Analyzed: 08/03/22

Benzene	4.68	0.0250	5.00		93.6	70-130			
Ethylbenzene	4.55	0.0250	5.00		91.0	70-130			
Toluene	4.71	0.0250	5.00		94.2	70-130			
o-Xylene	4.66	0.0250	5.00		93.1	70-130			
p,m-Xylene	9.22	0.0500	10.0		92.2	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

Matrix Spike (2232065-MS1)

Source: E208019-02

Prepared: 08/03/22 Analyzed: 08/03/22

Benzene	5.30	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.17	0.0250	5.00	ND	103	61-133			
Toluene	5.34	0.0250	5.00	ND	107	61-130			
o-Xylene	5.27	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.34		8.00		104	70-130			

Matrix Spike Dup (2232065-MSD1)

Source: E208019-02

Prepared: 08/03/22 Analyzed: 08/03/22

Benzene	4.63	0.0250	5.00	ND	92.5	54-133	13.6	20	
Ethylbenzene	4.52	0.0250	5.00	ND	90.3	61-133	13.5	20	
Toluene	4.66	0.0250	5.00	ND	93.2	61-130	13.6	20	
o-Xylene	4.60	0.0250	5.00	ND	92.0	63-131	13.6	20	
p,m-Xylene	9.14	0.0500	10.0	ND	91.4	63-131	13.4	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.6	63-131	13.4	20	
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			



QC Summary Data

Pitts Energy	Project Name:	Federal 54 Well #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	8/4/2022 4:29:08PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232065-BLK1)

Prepared: 08/03/22 Analyzed: 08/03/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

LCS (2232065-BS2)

Prepared: 08/03/22 Analyzed: 08/03/22

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike (2232065-MS2)

Source: E208019-02

Prepared: 08/03/22 Analyzed: 08/03/22

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			

Matrix Spike Dup (2232065-MSD2)

Source: E208019-02

Prepared: 08/03/22 Analyzed: 08/03/22

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.1	70-130	10.9	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/4/2022 4:29:08PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232069-BLK1)

Prepared: 08/03/22 Analyzed: 08/03/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	55.1		50.0		110	50-200			

LCS (2232069-BS1)

Prepared: 08/03/22 Analyzed: 08/03/22

Diesel Range Organics (C10-C28)	256	25.0	250		103	38-132			
Surrogate: <i>n</i> -Nonane	53.2		50.0		106	50-200			

Matrix Spike (2232069-MS1)

Source: E208019-12

Prepared: 08/03/22 Analyzed: 08/03/22

Diesel Range Organics (C10-C28)	291	125	250	ND	116	38-132			
Surrogate: <i>n</i> -Nonane	58.7		50.0		117	50-200			

Matrix Spike Dup (2232069-MSD1)

Source: E208019-12

Prepared: 08/03/22 Analyzed: 08/03/22

Diesel Range Organics (C10-C28)	316	125	250	ND	126	38-132	8.17	20	
Surrogate: <i>n</i> -Nonane	56.0		50.0		112	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/4/2022 4:29:08PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232067-BLK1)

Prepared: 08/03/22 Analyzed: 08/03/22

Chloride	ND	20.0							
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LCS (2232067-BS1)

Prepared: 08/03/22 Analyzed: 08/03/22

Chloride	249	20.0	250		99.5	90-110			
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Matrix Spike (2232067-MS1)

Source: E208019-01

Prepared: 08/03/22 Analyzed: 08/03/22

Chloride	314	20.0	250	64.1	99.8	80-120			
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Matrix Spike Dup (2232067-MSD1)

Source: E208019-01

Prepared: 08/03/22 Analyzed: 08/03/22

Chloride	315	20.0	250	64.1	100	80-120	0.512	20	
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QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	08/04/22 16:29

- 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

Chain of Custody

Client: Pitts Energy
Project: Federal 54 Well #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ESS
Address: 2124 NW County Rd
City, State, Zip: Holls NM 88240
Phone: 575 890 6397
Email: Natalie Graden

Lab Use Only				TAT			EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA	
<u>E208019</u>	<u>20040-0001</u>		<input checked="" type="checkbox"/>					
Analysis and Method							RCRA	
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	State		
						NM	CO	
						UT	AZ	
						TX		
						Remarks		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
	8/1	S	1	SW1-Surf - Sep	1							<input checked="" type="checkbox"/>		
				SW1 - 2' - Sep	2									
				SW2 - Surf - Sep	3									
				SW2 - 2' - Sep	4									
				SW3 - Surf - Sep	5									
				SW3 - 2' - Sep	6									
				SW4 - Surf - Sep	7									
				SW4 - 2' - Sep	8									
				SW5 - Surf - Sep	9									
				SW5 - 2' - Sep	10									

Additional Instructions:

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

Relinquished by: (Signature) <u>Jason Rendon Gordon</u>	Date <u>8/1/22</u>	Time <u>3:00p</u>	Received by: (Signature) <u>Natalie Graden</u>	Date <u>8/2/22</u>	Time <u>10:00</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <u>Jason Rendon Gordon</u>	Date <u>8/2/22</u>	Time <u>4:15</u>	Received by: (Signature) <u>Natalie Graden</u>	Date <u>8/3/22</u>	Time <u>10:00</u>	T1 T2 T3
Relinquished by: (Signature) <u>Jason Rendon Gordon</u>	Date <u>8/2/22</u>	Time <u>4:15</u>	Received by: (Signature) <u>Natalie Graden</u>	Date <u>8/3/22</u>	Time <u>10:00</u>	AVG Temp °C <u>4</u>

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

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

Project Information

Chain of Custody

Page 1 of 2

Client: <u>Pitts Energy</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Federal SW Well #1</u>		Attention: <u>ESS</u>		Lab WO# <u>E208019</u>		Job Number <u>20040-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address: <u>2724 NW County Rd</u>		Analysis and Method								RCRA	
Address:		City, State, Zip: <u>Hobbs NM 88240</u>											
City, State, Zip		Phone: <u>505 890 6397</u>											
Phone:		Email: <u>Natalie Golden</u>											
Email:													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
	8/1	S	1	SW16 - Surf - Sep	11							✓		
				SW16 - 2' - Sep	12									
				SW7 - Surf - Sep	13									
				SW7 - 2' - Sep	14									

Additional Instructions:

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

Sampled by: Jordan Pender

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Jordan Pender</u>	Date <u>8/1/22</u>	Time <u>3:00</u>	Received by: (Signature) <u>Jordan Pender</u>	Date <u>8/22/22</u>	Time <u>3:00</u>	Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Jordan Pender</u>	Date <u>8/22/22</u>	Time <u>4:15</u>	Received by: (Signature) <u>Natalie Golden</u>	Date <u>8/13/22</u>	Time <u>10:00</u>	
Relinquished by: (Signature) <u>Jordan Pender</u>	Date <u>8/22/22</u>	Time <u>4:15</u>	Received by: (Signature) <u>Natalie Golden</u>	Date <u>8/13/22</u>	Time <u>10:00</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

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

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

Envirotech Analytical Laboratory

Printed: 8/3/2022 1:23:49PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	08/03/22 10:00	Work Order ID:	E208019
Phone:	(432) 425-8235	Date Logged In:	08/03/22 09:23	Logged In By:	Caitlin Christian
Email:		Due Date:	08/04/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Time sampled and project manager not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

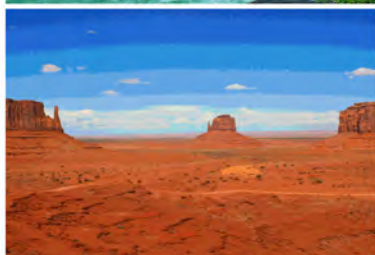
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Federal 54 Well #1

Work Order: E208030

Job Number: 20046-0001

Received: 8/4/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/5/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/5/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Federal 54 Well #1
Workorder: E208030
Date Received: 8/4/2022 10:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/4/2022 10:00:00AM, under the Project Name: Federal 54 Well #1.

The analytical test results summarized in this report with the Project Name: Federal 54 Well #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pitts Energy	Project Name:	Federal 54 Well #1	Reported: 08/05/22 16:14
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 - 28 - Sep	E208030-01A	Soil	08/02/22	08/04/22	Glass Jar, 4 oz.
SP5 - 40' - Sep	E208030-02A	Soil	08/02/22	08/04/22	Glass Jar, 4 oz.
SP1 - 14' - Bty	E208030-03A	Soil	08/02/22	08/04/22	Glass Jar, 4 oz.
SP4 - 14' - Bty	E208030-04A	Soil	08/02/22	08/04/22	Glass Jar, 4 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2022 4:14:18PM
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SP1 - 28 - Sep

E208030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2232082	
Benzene	ND	0.0250	1	08/04/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/04/22	08/04/22	
Toluene	ND	0.0250	1	08/04/22	08/04/22	
o-Xylene	ND	0.0250	1	08/04/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/04/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/04/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	102 %	70-130		08/04/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2232082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/04/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.7 %	70-130		08/04/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2232087	
Diesel Range Organics (C10-C28)	438	25.0	1	08/04/22	08/04/22	
Oil Range Organics (C28-C36)	248	50.0	1	08/04/22	08/04/22	
<i>Surrogate: n-Nonane</i>	93.8 %	50-200		08/04/22	08/04/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2232089	
Chloride	280	20.0	1	08/04/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/5/2022 4:14:18PM

SP5 - 40' - Sep

E208030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232082	
Benzene	ND	0.0250	1	08/04/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/04/22	08/04/22	
Toluene	ND	0.0250	1	08/04/22	08/04/22	
o-Xylene	ND	0.0250	1	08/04/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/04/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/04/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	08/04/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/04/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.7 %	70-130	08/04/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2232087	
Diesel Range Organics (C10-C28)	429	25.0	1	08/04/22	08/04/22	
Oil Range Organics (C28-C36)	237	50.0	1	08/04/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
		98.1 %	50-200	08/04/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2232089	
Chloride	276	20.0	1	08/04/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/5/2022 4:14:18PM

SP1 - 14' - Bty

E208030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232082	
Benzene	ND	0.0250	1	08/04/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/04/22	08/04/22	
Toluene	ND	0.0250	1	08/04/22	08/04/22	
o-Xylene	ND	0.0250	1	08/04/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/04/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/04/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	08/04/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/04/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	08/04/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2232087	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/04/22	08/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/04/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
		81.5 %	50-200	08/04/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2232089	
Chloride	ND	20.0	1	08/04/22	08/04/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Federal 54 Well #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/5/2022 4:14:18PM

SP4 - 14' - Bty

E208030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232082
Benzene	ND	0.0250	1	08/04/22	08/04/22	
Ethylbenzene	ND	0.0250	1	08/04/22	08/04/22	
Toluene	ND	0.0250	1	08/04/22	08/04/22	
o-Xylene	ND	0.0250	1	08/04/22	08/04/22	
p,m-Xylene	ND	0.0500	1	08/04/22	08/04/22	
Total Xylenes	ND	0.0250	1	08/04/22	08/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	08/04/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232082
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/04/22	08/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	08/04/22	08/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2232087
Diesel Range Organics (C10-C28)	2080	25.0	1	08/04/22	08/04/22	
Oil Range Organics (C28-C36)	913	50.0	1	08/04/22	08/04/22	
<i>Surrogate: n-Nonane</i>						
		98.0 %	50-200	08/04/22	08/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2232089
Chloride	128	20.0	1	08/04/22	08/04/22	



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Federal 54 Well #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2022 4:14:18PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232082-BLK1)

Prepared: 08/04/22 Analyzed: 08/04/22

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	8.37		8.00		105	70-130			

LCS (2232082-BS1)

Prepared: 08/04/22 Analyzed: 08/04/22

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.13	0.0250	5.00		103	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.45		8.00		106	70-130			

Matrix Spike (2232082-MS1)

Source: E208031-02

Prepared: 08/04/22 Analyzed: 08/04/22

Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.7	61-133			
Toluene	4.90	0.0250	5.00	ND	98.0	61-130			
o-Xylene	4.85	0.0250	5.00	ND	96.9	63-131			
p,m-Xylene	9.59	0.0500	10.0	ND	95.9	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.50		8.00		106	70-130			

Matrix Spike Dup (2232082-MSD1)

Source: E208031-02

Prepared: 08/04/22 Analyzed: 08/04/22

Benzene	4.71	0.0250	5.00	ND	94.2	54-133	3.26	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	3.60	20	
Toluene	4.74	0.0250	5.00	ND	94.8	61-130	3.28	20	
o-Xylene	4.68	0.0250	5.00	ND	93.7	63-131	3.37	20	
p,m-Xylene	9.24	0.0500	10.0	ND	92.4	63-131	3.70	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.8	63-131	3.59	20	
Surrogate: 4-Bromochlorobenzene-PID	8.45		8.00		106	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/5/2022 4:14:18PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232082-BLK1)

Prepared: 08/04/22 Analyzed: 08/04/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.6	70-130			

LCS (2232082-BS2)

Prepared: 08/04/22 Analyzed: 08/04/22

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike (2232082-MS2)

Source: E208031-02

Prepared: 08/04/22 Analyzed: 08/04/22

Gasoline Range Organics (C6-C10)	38.8	20.0	50.0	ND	77.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

Matrix Spike Dup (2232082-MSD2)

Source: E208031-02

Prepared: 08/04/22 Analyzed: 08/04/22

Gasoline Range Organics (C6-C10)	36.7	20.0	50.0	ND	73.4	70-130	5.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/5/2022 4:14:18PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232087-BLK1)

Prepared: 08/04/22 Analyzed: 08/04/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.5		50.0		103	50-200			

LCS (2232087-BS1)

Prepared: 08/04/22 Analyzed: 08/04/22

Diesel Range Organics (C10-C28)	236	25.0	250		94.4	38-132			
Surrogate: <i>n</i> -Nonane	48.8		50.0		97.7	50-200			

Matrix Spike (2232087-MS1)

Source: E208030-04

Prepared: 08/04/22 Analyzed: 08/04/22

Diesel Range Organics (C10-C28)	1390	25.0	250	2080	NR	38-132			M4
Surrogate: <i>n</i> -Nonane	46.6		50.0		93.2	50-200			

Matrix Spike Dup (2232087-MSD1)

Source: E208030-04

Prepared: 08/04/22 Analyzed: 08/04/22

Diesel Range Organics (C10-C28)	1130	25.0	250	2080	NR	38-132	21.4	20	M4, R3
Surrogate: <i>n</i> -Nonane	46.8		50.0		93.7	50-200			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Project Number: Project Manager:	Federal 54 Well #1 20046-0001 Natalie Gladden	Reported: 8/5/2022 4:14:18PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232089-BLK1)

Prepared: 08/04/22 Analyzed: 08/04/22

Chloride	ND	20.0							
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LCS (2232089-BS1)

Prepared: 08/04/22 Analyzed: 08/04/22

Chloride	267	20.0	250		107	90-110			
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Matrix Spike (2232089-MS1)

Source: E208030-01

Prepared: 08/04/22 Analyzed: 08/04/22

Chloride	554	20.0	250	280	110	80-120			
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Matrix Spike Dup (2232089-MSD1)

Source: E208030-01

Prepared: 08/04/22 Analyzed: 08/04/22

Chloride	611	20.0	250	280	132	80-120	9.75	20	M2
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QC Summary Report Comment:

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



Definitions and Notes

Pitts Energy	Project Name:	Federal 54 Well #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	08/05/22 16:14

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
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.
R3	The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
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 1[illegible]

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

Sampled by: Jordan Ponder Jordan Ponder

Samples requiring thermal preservation must be received on ice the day they are sampled or received. Samples not requiring thermal preservation must be packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>Gordon Bender</i>	Date 8-2-22	Time	Received by: (Signature) <i>[Signature]</i>	Date 8/3/22	Time 1:30	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) <i>[Signature]</i>	Date 8-3-22	Time 4:15	Received by: (Signature) <i>[Signature]</i>	Date 8/4/22	Time 1600	<u>T1</u> <u>T2</u> <u>T3</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

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

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

Envirotech Analytical Laboratory

Printed: 8/4/2022 1:49:20PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	08/04/22 10:00	Work Order ID:	E208030
Phone:	(432) 425-8235	Date Logged In:	08/04/22 10:47	Logged In By:	Alexa Michaels
Email:		Due Date:	08/05/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/Resolution

Project manager and time sampled not provided on the coc.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Fed 54 #1

Work Order: E208155

Job Number: 20046-0001

Received: 8/29/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/8/22

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.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 9/8/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Fed 54 #1
Workorder: E208155
Date Received: 8/29/2022 10:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2022 10:30:00AM, under the Project Name: Fed 54 #1.

The analytical test results summarized in this report with the Project Name: Fed 54 #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Alexa Michaels
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labadmin@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

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name:	Fed 54 #1	Reported: 09/08/22 11:41
	Project Number:	20046-0001	
	Project Manager:	Natalie Gladden	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Batt SP2 - 42'	E208155-01A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SP3 - 44'	E208155-02A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SP-4 - 18	E208155-03A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SP5 - 40'	E208155-04A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SP7 - 18'	E208155-05A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SP8 - 16	E208155-06A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SP9 - 18	E208155-07A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW1 Surf	E208155-08A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW1 - 4'	E208155-09A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW2 Surf	E208155-10A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW2 - 4'	E208155-11A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW3 Surf	E208155-12A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW3 - 4'	E208155-13A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW4 Surf	E208155-14A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW4 - 4'	E208155-15A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW5 Surf	E208155-16A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW5 - 4'	E208155-17A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW6 - Surf	E208155-18A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW6 - 4'	E208155-19A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW7 - Surf	E208155-20A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/8/2022 11:41:54AM
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Batt SP2 - 42'

E208155-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
<i>Surrogate: Bromofluorobenzene</i>	95.5 %	70-130		08/29/22	08/29/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130		08/29/22	08/29/22	
<i>Surrogate: Toluene-d8</i>	98.5 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
<i>Surrogate: Bromofluorobenzene</i>	95.5 %	70-130		08/29/22	08/29/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130		08/29/22	08/29/22	
<i>Surrogate: Toluene-d8</i>	98.5 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
<i>Surrogate: n-Nonane</i>	86.1 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	346	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SP3 - 44'

E208155-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.2 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.7 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.2 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.7 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	98.6 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	105	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SP-4 -18

E208155-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.6 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.6 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	94.0 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	516	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SP5 - 40'

E208155-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	92.2 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.4 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	92.2 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.4 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	97.1 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	353	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SP7 - 18'

E208155-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	90.9 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.7 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	90.9 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.7 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	97.5 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	107	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SP8 - 16

E208155-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	91.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	101 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	91.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	101 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	90.4 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	506	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SP9 - 18

E208155-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	90.4 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.8 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	90.4 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.8 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	103 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	318	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW1 Surf

E208155-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.9 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.9 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	498	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	274	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	99.7 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	766	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW1 - 4'

E208155-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	95.7 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	95.7 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	99.7 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	550	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW2 Surf

E208155-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	95.3 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	95.3 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	395	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	221	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	104 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	1090	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW2 - 4'

E208155-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	97.2 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	97.2 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	105 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	618	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW3 Surf

E208155-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	93.1 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	97.3 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	93.1 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	97.3 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	430	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	238	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	101 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	997	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW3 - 4'

E208155-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	96.1 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	96.1 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	93.6 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	286	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW4 Surf

E208155-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	97.2 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	97.2 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	437	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	236	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	113 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	1030	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW4 - 4'

E208155-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.9 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	96.7 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.9 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	96.7 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	119 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	288	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW5 Surf

E208155-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	98.1 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	98.1 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	683	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	376	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	112 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	937	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW5 - 4'

E208155-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.6 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	96.7 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	92.6 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	96.7 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	111 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	383	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW6 - Surf

E208155-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	91.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	97.4 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	91.4 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	97.4 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	512	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	308	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	112 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	757	20.0	1	08/29/22	08/30/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW6 - 4'

E208155-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	96.5 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	96.6 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	96.5 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	96.6 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	112 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	398	20.0	1	08/29/22	08/30/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:41:54AM

Batt SW7 - Surf

E208155-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Benzene	ND	0.0250	1	08/29/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/30/22	
Toluene	ND	0.0250	1	08/29/22	08/30/22	
o-Xylene	ND	0.0250	1	08/29/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	96.2 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	100 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/30/22	
Surrogate: Bromofluorobenzene	96.2 %	70-130		08/29/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		08/29/22	08/30/22	
Surrogate: Toluene-d8	100 %	70-130		08/29/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236006
Diesel Range Organics (C10-C28)	872	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	503	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	108 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236014
Chloride	946	20.0	1	08/29/22	08/30/22	



QC Summary Data

Pitts Energy	Project Name:	Fed 54 #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	9/8/2022 11:41:54AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2236007-BLK1)

Prepared: 08/29/22 Analyzed: 08/29/22

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	0.462		0.500		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2236007-BS1)

Prepared: 08/29/22 Analyzed: 08/30/22

Benzene	2.36	0.0250	2.50		94.5	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.2	70-130			
Toluene	2.31	0.0250	2.50		92.3	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.88	0.0500	5.00		97.7	70-130			
Total Xylenes	7.38	0.0250	7.50		98.4	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

LCS Dup (2236007-BSD1)

Prepared: 08/29/22 Analyzed: 08/30/22

Benzene	2.29	0.0250	2.50		91.5	70-130	3.23	23	
Ethylbenzene	2.36	0.0250	2.50		94.4	70-130	2.88	27	
Toluene	2.23	0.0250	2.50		89.3	70-130	3.26	24	
o-Xylene	2.42	0.0250	2.50		96.6	70-130	3.42	27	
p,m-Xylene	4.77	0.0500	5.00		95.4	70-130	2.30	27	
Total Xylenes	7.19	0.0250	7.50		95.8	70-130	2.68	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/8/2022 11:41:54AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2236007-BLK1)

Prepared: 08/29/22 Analyzed: 08/29/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.462		0.500		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2236007-BS2)

Prepared: 08/29/22 Analyzed: 08/29/22

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.8	70-130			
Surrogate: Bromofluorobenzene	0.482		0.500		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

LCS Dup (2236007-BSD2)

Prepared: 08/29/22 Analyzed: 08/29/22

Gasoline Range Organics (C6-C10)	38.1	20.0	50.0		76.1	70-130	9.60	20	
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/8/2022 11:41:54AM
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Nonhalogenated Organics by 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
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Blank (2236006-BLK1)

Prepared: 08/29/22 Analyzed: 08/29/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.0		50.0		99.9	50-200			

LCS (2236006-BS1)

Prepared: 08/29/22 Analyzed: 08/29/22

Diesel Range Organics (C10-C28)	199	25.0	250		79.5	38-132			
Surrogate: n-Nonane	42.8		50.0		85.7	50-200			

Matrix Spike (2236006-MS1)

Source: E208155-15

Prepared: 08/29/22 Analyzed: 08/29/22

Diesel Range Organics (C10-C28)	212	25.0	250	ND	84.9	38-132			
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			

Matrix Spike Dup (2236006-MSD1)

Source: E208155-15

Prepared: 08/29/22 Analyzed: 08/29/22

Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.8	38-132	2.20	20	
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			



QC Summary Data

Pitts Energy	Project Name:	Fed 54 #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	9/8/2022 11:41:54AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2236014-BLK1)					Prepared: 08/29/22 Analyzed: 08/29/22				
Chloride	ND	20.0							
LCS (2236014-BS1)					Prepared: 08/29/22 Analyzed: 08/29/22				
Chloride	246	20.0	250		98.3	90-110			
LCS Dup (2236014-BSD1)					Prepared: 08/29/22 Analyzed: 08/29/22				
Chloride	245	20.0	250		98.1	90-110	0.228	20	

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



Definitions and Notes

Pitts Energy	Project Name:	Fed 54 #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	09/08/22 11:41

- 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

Chain of Custody

Page 1 of 4

Client: Pitts Enclby
 Project: EQ 54 #1
 Project Manager:
 Address:
 City, State, Zip
 Phone:
 Email:
 Report due by:

Bill To

Attention: ESS
 Address: 2724 NW COUNTY ROAD
 City, State, Zip HOBBS, NM 88240
 Phone: 575-393-9048
 EMAIL TO: Natalie@energystaffingllc.com
Dakoatah@energystaffingllc.com

Lab Use Only

Lab WO# E208155 Job Number 60046-0001

TAT

1D 2D 3D Standard

EPA Program

CWA SDWA

Analysis and Method

RCRA

State

NM CO UT AZ TX

Remarks

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	BGDOC NM	BGDOC TX	Remarks
		S	1	BATT SP 2 - 42'	1							X		
			1	BATT SP 3 - 44'	2									
				BATT SP 4 -	3									
				BATT SP 5 - 40'	4									
				BATT SP 7 - 8	5									
				BATT SP 8 - 16	6									
				BATT SP 9 - 18	7									
				BATT SW ¹ Surf	8									
				BATT SW 1 - 4'	9									
				BATT SW 2 Surf	10									

Additional Instructions:

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

Sampled by: DM

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	8-26-22		<u>[Signature]</u>	8-26-22	3:30	Received on ice: <u>(Y)</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<u>[Signature]</u>	8-26-22	4:15	<u>[Signature]</u>	8/29/22	10:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

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

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

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

Project Information

Chain of Custody

Page 2 of 4

Client: <u>Pitts energy</u>		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Fed 54 #1</u>		Attention: <u>ESS</u>		Lab WO# <u>E 208/55</u>		Job Number <u>20046-001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address: <u>2724 NW COUNTY ROAD</u>		City, State, Zip <u>HOBBS, NM 88240</u>		Analysis and Method							
Address:		Phone: <u>575-393-9048</u>		EMAIL TO: <u>Natalie@energystaffingllc.com</u>									
City, State, Zip		Phone: <u>575-393-9048</u>		EMAIL TO: <u>Dakoatah@energystaffingllc.com</u>									
Phone:													
Email:													
Report due by:													

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	BGDOC NM	BGDOC TX	Remarks
		S	1	Batt SW 2-4'	11							X		
				Batt SW 3 Surf	12									
				Batt SW 3-4'	13									
				Batt SW 4 Surf	14									
				Batt SW 4-4'	15									
				Batt SW 5 Surf	16									
				Batt SW 5-4'	17									
				Batt SW 6 Surf	18									
				Batt SW 6-4'	19									
				Batt SW 7 Surf	20									

Additional Instructions:

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

Sampled by: [Signature]

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8-26-22</u>	Time	Received by: (Signature) <u>[Signature]</u>	Date <u>8-26-22</u>	Time <u>3:00</u>	Lab Use Only Received on ice: <u>Y/N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8-26-22</u>	Time <u>4:15</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8/29/22</u>	Time <u>10:30</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

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

Envirotech Analytical Laboratory

Printed: 8/29/2022 11:14:59AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	08/29/22 10:30	Work Order ID:	E208155
Phone:	(432) 425-8235	Date Logged In:	08/29/22 08:27	Logged In By:	Caitlin Christian
Email:		Due Date:	08/30/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 4

Client: <u>Pitts Energy</u>		Bill To		Lab Use Only		TAT		EPA Program							
Project: <u>FEI 54 #1</u>		Attention: <u>ESS</u>		Lab WO# <u>E 208155</u>		Job Number <u>60046-0001</u>		1D	2D	3D	Standard	CWA	SDWA		
Project Manager:		Address: <u>2724 NW COUNTY ROAD</u>		Analysis and Method								RCRA			
Address:		City, State, Zip <u>HOBBS, NM 88240</u>													
City, State, Zip		Phone: <u>575-393-9048</u>		DRO/DRO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010		Chloride 300.0	
Phone:		EMAIL TO: <u>Natalie@energystaffingllc.com</u>													
Email:		Dakoatah@energystaffingllc.com		BGDOC NM		BGDOC TX						State			
Report due by:												NM		CO	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
		S	1	BATT SP 2 - 42'	1							X		
			1	BATT SP 3 - 44'	2									
			1	BATT SP 4 -	3									
			1	BATT SP 5 - 40'	4									
			1	BATT SP 7 - 18'	5									Per. Natalie
			1	BATT SP 8 - 16'	6									ADA 9/7/22
			1	BATT SP 9 - 18'	7									
			1	BATT SW ¹ Surf	8									
			1	BATT SW 1 - 4'	9									
			1	BATT SW 2 Surf	10									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
[Signature]		8/26/22		[Signature]		8/26/22	3:30	Received on ice: <u>Y</u> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1			
[Signature]		8/26/22	4:15	[Signature]		8/29/22	10:30	T2			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3			
[Signature]				[Signature]				AVG Temp °C <u>4</u>			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



Project Information

Chain of Custody

Page 1 of 4

Client: <u>Pitts Energy</u>		Bill To		Lab Use Only		TAT		EPA Program							
Project: <u>FEI 54 #1</u>		Attention: <u>ESS</u>		Lab WO# <u>E 208155</u>		Job Number <u>60046-0001</u>		1D	2D	3D	Standard	CWA	SDWA		
Project Manager:		Address: <u>2724 NW COUNTY ROAD</u>		Analysis and Method								RCRA			
Address:		City, State, Zip <u>HOBBS, NM 88240</u>													
City, State, Zip		Phone: <u>575-393-9048</u>		DRO/DRO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010		Chloride 300.0	
Phone:		EMAIL TO: <u>Natalie@energystaffingllc.com</u>													
Email:		Dakoatah@energystaffingllc.com		BGDOC NM		BGDOC TX						State			
Report due by:												NM		CO	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
		S	1	BATT SP 2 - 42'	1							X		
			1	BATT SP 3 - 44'	2									
			1	BATT SP 4 -	3									
			1	BATT SP 5 - 40'	4									
			1	BATT SP 7 - 18'	5									Per. Natalie
			1	BATT SP 8 - 16'	6									ADA 9/7/22
			1	BATT SP 9 - 18'	7									
			1	BATT SW ¹ Surf	8									
			1	BATT SW 1 - 4'	9									
			1	BATT SW 2 Surf	10									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
[Signature]		8/26/22		[Signature]		8/26/22	3:30	Received on ice: <u>Y</u> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1			
[Signature]		8/26/22	4:15	[Signature]		8/29/22	10:30	T2			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3			
[Signature]				[Signature]				AVG Temp °C <u>4</u>			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



Project Information

Chain of Custody

Page 2 of 4

Client: <u>Pitts energy</u>				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>Fed 54 #1</u>				Attention: <u>ESS</u>				Lab WO# <u>E 208/55</u>				Job Number <u>20046-0001</u>				1D 2D 3D Standard			
Project Manager:				Address: <u>2724 NW COUNTY ROAD</u>												CWA SDWA			
Address:				City, State, Zip <u>HOBBS, NM 88240</u>												RCRA			
City, State, Zip				Phone: <u>575-393-9048</u>												State			
Phone:				EMAIL TO: <u>Natalie@energystaffingllc.com</u>												NM CO UT AZ TX			
Email:				Dakoatah@energystaffingllc.com															
Report due by:																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTX by 802.1	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks					
		S	1	Batt SW 2-4'	11							X							
			1	Batt SW 3 Surf	12														
				Batt SW 3-4'	13														
				Batt SW 4 Surf	14														
				Batt SW 4-4'	15														
				Batt SW 5 Surf	16														
				Batt SW 5-4'	17														
				Batt SW 6 Surf	18														
				Batt SW 6-4'	19														
				Batt SW 7 Surf	20														
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<u>[Signature]</u>		8-26-22				<u>[Signature]</u>		8-26-22		3:00		Received on ice: <u>Y/N</u>							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
<u>[Signature]</u>		8-26-22		4:15		<u>[Signature]</u>		8-29-22		10:30									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Project Information

Chain of Custody

Page 2 of 4

Client: <u>Pitts energy</u>				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>Fed 54 #1</u>				Attention: <u>ESS</u>				Lab WO# <u>E 208/55</u>				Job Number <u>20046-0001</u>				1D 2D 3D Standard			
Project Manager:				Address: <u>2724 NW COUNTY ROAD</u>												CWA SDWA			
Address:				City, State, Zip <u>HOBBS, NM 88240</u>												RCRA			
City, State, Zip				Phone: <u>575-393-9048</u>												State			
Phone:				EMAIL TO: <u>Natalie@energystaffingllc.com</u>												NM CO UT AZ TX			
Email:				Dakoatah@energystaffingllc.com															
Report due by:																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTX by 802.1	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks					
		S	1	Batt SW 2-4'	11							X							
			1	Batt SW 3 Surf	12														
				Batt SW 3-4'	13														
				Batt SW 4 Surf	14														
				Batt SW 4-4'	15														
				Batt SW 5 Surf	16														
				Batt SW 5-4'	17														
				Batt SW 6 Surf	18														
				Batt SW 6-4'	19														
				Batt SW 7 Surf	20														
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<u>[Signature]</u>		8-26-22				<u>[Signature]</u>		8-26-22		3:00		Received on ice: <u>Y/N</u>							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
<u>[Signature]</u>		8-26-22		4:15		<u>[Signature]</u>		8-29-22		10:30									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pitts Energy

Project Name: Fed 54 #1

Work Order: E208156

Job Number: 20046-0001

Received: 8/29/2022

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/8/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/8/22

Natalie Gladden
3313 Caldera Blvd
Midland, TX 79707



Project Name: Fed 54 #1
Workorder: E208156
Date Received: 8/29/2022 10:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2022 10:30:00AM, under the Project Name: Fed 54 #1.

The analytical test results summarized in this report with the Project Name: Fed 54 #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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pitts Energy	Project Name:	Fed 54 #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	09/08/22 11:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Batt SW7 - 4'	E208156-01A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW8 - Surf	E208156-02A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Batt SW8 - 4'	E208156-03A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SP1 - 32'	E208156-04A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SP2 - 30'	E208156-05A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SP4 - 26'	E208156-06A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SP5 - 44'	E208156-07A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SP6 - 18'	E208156-08A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SP7 - 10	E208156-09A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SP8 34	E208156-10A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SP9-4'	E208156-11A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SW1 - 4'	E208156-12A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SW2 - 4'	E208156-13A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SW3 - 4'	E208156-14A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SW4 - 4'	E208156-15A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SW5 - 4'	E208156-16A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SW6 - 4'	E208156-17A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.
Sep SW7 - 4'	E208156-18A	Soil	08/26/22	08/29/22	Glass Jar, 2 oz.



Sample Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/8/2022 11:44:40AM
--	---	----------------------------------

Batt SW7 - 4'

E208156-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	101 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	102 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	101 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	102 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	106 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	407	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Batt SW8 - Surf

E208156-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		104 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		104 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	393	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	288	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane		110 %	50-200	08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	1440	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Batt SW8 - 4'

E208156-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236008	
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	104 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	103 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	104 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	103 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2236005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	103 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236013	
Chloride	400	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SP1 - 32'

E208156-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		104 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		104 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane		113 %	50-200	08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	119	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SP2 - 30'

E208156-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	94.7 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.3 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	94.7 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.3 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	98.4 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	130	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SP4 - 26'

E208156-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.9 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.9 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	109 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	144	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SP5 - 44'

E208156-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	94.0 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	100 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	94.0 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	100 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	112 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	414	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SP6 - 18'

E208156-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.5 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	97.5 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/29/22	
Surrogate: n-Nonane	112 %	50-200		08/29/22	08/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	613	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SP7 - 10

E208156-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.3 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.3 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	115 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	895	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SP8 34

E208156-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.3 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.3 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	133 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	537	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SP9-4'

E208156-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	90.7 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	96.3 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	90.7 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	96.3 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	118 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	684	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SW1 - 4'

E208156-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		103 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		103 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	907	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	1010	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane		120 %	50-200	08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	51.4	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SW2 - 4'

E208156-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		103 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		103 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	1020	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	1450	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane		130 %	50-200	08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	53.4	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SW3 - 4'

E208156-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	99.7 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.9 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	99.7 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	98.9 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	121 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	356	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SW4 - 4'

E208156-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		104 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		104 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane		119 %	50-200	08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	484	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SW5 - 4'

E208156-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	98.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	99.5 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	98.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	99.5 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	106	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	92.1	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	118 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	ND	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SW6 - 4'

E208156-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	103 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		08/29/22	08/29/22	
Surrogate: Toluene-d8	103 %	70-130		08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane	120 %	50-200		08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	402	20.0	1	08/29/22	08/29/22	



Sample Data

Pitts Energy
3313 Caldera Blvd
Midland TX, 79707

Project Name: Fed 54 #1
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/8/2022 11:44:40AM

Sep SW7 - 4'

E208156-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Benzene	ND	0.0250	1	08/29/22	08/29/22	
Ethylbenzene	ND	0.0250	1	08/29/22	08/29/22	
Toluene	ND	0.0250	1	08/29/22	08/29/22	
o-Xylene	ND	0.0250	1	08/29/22	08/29/22	
p,m-Xylene	ND	0.0500	1	08/29/22	08/29/22	
Total Xylenes	ND	0.0250	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		104 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/22	08/29/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/29/22	08/29/22	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/29/22	08/29/22	
Surrogate: Toluene-d8		104 %	70-130	08/29/22	08/29/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2236005
Diesel Range Organics (C10-C28)	113	25.0	1	08/29/22	08/30/22	
Oil Range Organics (C28-C36)	132	50.0	1	08/29/22	08/30/22	
Surrogate: n-Nonane		120 %	50-200	08/29/22	08/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236013
Chloride	ND	20.0	1	08/29/22	08/30/22	



QC Summary Data

Pitts Energy	Project Name:	Fed 54 #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	9/8/2022 11:44:40AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2236008-BLK1)

Prepared: 08/29/22 Analyzed: 08/29/22

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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2236008-BS1)

Prepared: 08/29/22 Analyzed: 08/29/22

Benzene	2.23	0.0250	2.50		89.3	70-130			
Ethylbenzene	2.33	0.0250	2.50		93.0	70-130			
Toluene	2.25	0.0250	2.50		90.0	70-130			
o-Xylene	2.19	0.0250	2.50		87.5	70-130			
p,m-Xylene	4.34	0.0500	5.00		86.9	70-130			
Total Xylenes	6.53	0.0250	7.50		87.1	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS Dup (2236008-BSD1)

Prepared: 08/29/22 Analyzed: 08/29/22

Benzene	2.13	0.0250	2.50		85.4	70-130	4.49	23	
Ethylbenzene	2.29	0.0250	2.50		91.7	70-130	1.47	27	
Toluene	2.18	0.0250	2.50		87.3	70-130	3.11	24	
o-Xylene	2.17	0.0250	2.50		86.7	70-130	0.918	27	
p,m-Xylene	4.26	0.0500	5.00		85.2	70-130	1.89	27	
Total Xylenes	6.43	0.0250	7.50		85.7	70-130	1.57	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

Pitts Energy	Project Name:	Fed 54 #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	9/8/2022 11:44:40AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2236008-BLK1)

Prepared: 08/29/22 Analyzed: 08/29/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2236008-BS2)

Prepared: 08/29/22 Analyzed: 08/29/22

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS Dup (2236008-BSD2)

Prepared: 08/29/22 Analyzed: 08/29/22

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130	2.86	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			



QC Summary Data

Pitts Energy 3313 Caldera Blvd Midland TX, 79707	Project Name: Fed 54 #1 Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/8/2022 11:44:40AM
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Nonhalogenated Organics by 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
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Blank (2236005-BLK1)

Prepared: 08/29/22 Analyzed: 08/29/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.8		50.0		106	50-200			

LCS (2236005-BS1)

Prepared: 08/29/22 Analyzed: 08/29/22

Diesel Range Organics (C10-C28)	226	25.0	250		90.2	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike (2236005-MS1)

Source: E208156-16

Prepared: 08/29/22 Analyzed: 08/29/22

Diesel Range Organics (C10-C28)	338	25.0	250	106	92.7	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike Dup (2236005-MSD1)

Source: E208156-16

Prepared: 08/29/22 Analyzed: 08/29/22

Diesel Range Organics (C10-C28)	340	25.0	250	106	93.8	38-132	0.768	20	
Surrogate: n-Nonane	54.1		50.0		108	50-200			



QC Summary Data

Pitts Energy	Project Name:	Fed 54 #1	Reported:
3313 Caldera Blvd	Project Number:	20046-0001	
Midland TX, 79707	Project Manager:	Natalie Gladden	9/8/2022 11:44:40AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2236013-BLK1)					Prepared: 08/29/22 Analyzed: 08/29/22				
Chloride	ND	20.0							
LCS (2236013-BS1)					Prepared: 08/29/22 Analyzed: 08/30/22				
Chloride	243	20.0	250		97.4	90-110			
LCS Dup (2236013-BSD1)					Prepared: 08/29/22 Analyzed: 08/30/22				
Chloride	243	20.0	250		97.3	90-110	0.0703	20	

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



Definitions and Notes

Pitts Energy	Project Name:	Fed 54 #1	
3313 Caldera Blvd	Project Number:	20046-0001	Reported:
Midland TX, 79707	Project Manager:	Natalie Gladden	09/08/22 11:44

- 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.



Project Information

Chain of Custody

Page 3 of 4

Client: Pitts Energy
 Project: Fed S4 #1
 Project Manager: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____
 Report due by: _____

Bill To
 Attention: ESS
 Address: 2724 NW COUNTY ROAD
 City, State, Zip: HOBBS, NM 88240
 Phone: 575-393-9048
 EMAIL TO: Natalie@energystaffingllc.com
Dakoatah@energystaffingllc.com

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E208156</u>	<u>20046-0001</u>		<u>X</u>				
Analysis and Method							
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						<u>X</u>	
State							
NM	CO	UT	AZ	TX			
Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
		<u>S</u>	<u>1</u>	<u>Batt SW 7-4'</u>	<u>1</u>
		<u>1</u>	<u>1</u>	<u>Batt SW 8- Surf</u>	<u>2</u>
				<u>Batt SW 8- 4'</u>	<u>3</u>
				<u>Sep SP1- 32'</u>	<u>4</u>
				<u>Sep SP2- 30'</u>	<u>5</u>
				<u>Sep SP4- 26'</u>	<u>6</u>
				<u>Sep SP5- 44'</u>	<u>7</u>
				<u>Sep SP6- 12</u>	<u>8</u>
				<u>Sep SP7- 10</u>	<u>9</u>
				<u>Sep SP8 34</u>	<u>10</u>

Additional Instructions:

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

Sampled by: pm

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>8-26-22</u>		<u>[Signature]</u>	<u>8-26-22</u>	<u>3:00</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>8-26-22</u>	<u>4:15</u>	<u>[Signature]</u>	<u>8/29/22</u>	<u>10:30</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only		
Received on ice:	<u>Y</u>	<u>N</u>
T1	T2	T3
AVG Temp °C <u>4</u>		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

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

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

Project Information

Chain of Custody

Page 4 of 4

Client: <u>PITS Energy</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Fed 54 #1</u>		Attention: <u>ESS</u>		Lab WO# <u>E208156</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address: <u>2724 NW COUNTY ROAD</u>		Analysis and Method									
Address:		City, State, Zip <u>HOBBS, NM 88240</u>		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip		Phone: <u>575-393-9048</u>		Chloride 300.0									
Phone:		EMAIL TO: <u>Natalie@energystaffingllc.com</u>		BGDOC NM		BGDOC TX							
Email:		<u>Dakoatah@energystaffingllc.com</u>											
Report due by:													

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	BGDOC NM	BGDOC TX	Remarks
		S	1	1001 Sep SP9	11							X		
				Sep SW1-4'	12									
				Sep SW2-4'	13									
				Sep SW3-4'	14									
				Sep SW4-4'	15									
				Sep SW5-4'	16									
				Sep SW6-4'	17									
				Sep SW7-4'	18									

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	<u>8/20/22</u>	<u>4:15</u>	<u>[Signature]</u>	<u>8/29/22</u>	<u>3:00</u>	Received on ice: <u>Y/N</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<u>[Signature]</u>	<u>8/20/22</u>	<u>4:15</u>	<u>[Signature]</u>	<u>8/29/22</u>	<u>10:30</u>	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
						AVG Temp °C <u>4</u>

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

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

Envirotech Analytical Laboratory

Printed: 8/29/2022 11:18:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pitts Energy	Date Received:	08/29/22 10:30	Work Order ID:	E208156
Phone:	(432) 425-8235	Date Logged In:	08/29/22 08:30	Logged In By:	Caitlin Christian
Email:		Due Date:	08/30/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: UPSSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

Project has been separated into 2 reports due to amount of samples. Workorders are as follows:
E208155 COC pg 1&2 of 4, E208156 COC pg 3&4 of 4. Project manager,date and time sampled not provided on COC.

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

Date



envirotech Inc.

Project Information

Chain of Custody

Page 3 of 4

Client: <u>Pitts Energy</u>					Bill To					Lab Use Only				TAT				EPA Program																											
Project: <u>Feed S4 #1</u>					Attention: <u>ESS</u>					Lab WO# <u>E208156</u>				Job Number <u>20046-0001</u>				1D	2D	3D	Standard	CWA	SDWA																						
Project Manager:					Address: <u>2724 NW COUNTY ROAD</u>					Analysis and Method								RCRA																											
Address:					City, State, Zip <u>HOBBS, NM 88240</u>																																								
City, State, Zip					Phone: <u>575-393-9048</u>					DRO/DRO by 8015				GRO/DRO by 8015				BTX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				BGDOC NM				BGDOC TX				State			
Phone:					EMAIL TO: <u>Natalie@energystaffingllc.com</u>																																								
Email:					Dakoatah@energystaffingllc.com					NM				CO				UT				AZ				TX																			
Report due by:																																													
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																																							
		S	1	Batt SW 7-4'	1	<div>per Natalie</div> <div>9/7/22</div>																																							
				Batt SW 8- Surf	2																																								
				Batt SW 8- 4'	3																																								
				Sep SP1- 32'	4																																								
				Sep SP2- 30'	5																																								
				Sep SP4- 26'	6																																								
				Sep SP5- 44'	7																																								
				Sep SP6- 18'	8																																								
				Sep SP7- 10	9																																								
				Sep SP8 34	10																																								
Additional Instructions:																																													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.																																			
Relinquished by: (Signature)					Date <u>8-26-22</u>					Time					Received by: (Signature)					Date <u>8/26/22</u>					Time <u>3:00</u>					Lab Use Only															
Relinquished by: (Signature)					Date <u>8/26/22</u>					Time <u>4:15</u>					Received by: (Signature)					Date <u>8/29/22</u>					Time <u>10:30</u>					Received on ice: <u>Y/N</u>															
Relinquished by: (Signature)					Date					Time					Received by: (Signature)					Date					Time					T1					T2					T3					
AVG Temp °C <u>4</u>																																													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																													

Project Information

Chain of Custody

Page 4 of 4

Client: <u>Pitts Energy</u>					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>Fed 54 #1</u>					Attention: <u>ESS</u>					Lab WO# <u>E208156</u>					Job Number <u>20046-0001</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager:					Address: <u>2724 NW COUNTY ROAD</u>					Analysis and Method									RCRA					
Address:					City, State, Zip <u>HOBBS, NM 88240</u>																			
City, State, Zip					Phone: <u>575-393-9048</u>																			
Phone:					EMAIL TO: <u>Natalie@energystaffingllc.com</u>																			
Email:					Dakoatah@energystaffingllc.com																			
Report due by:																								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
		<u>S</u>	<u>1</u>	<u>SEP SP9 - 4'</u>	<u>11</u>									<u>per. Natalie</u>
		<u> </u>	<u> </u>	<u>SEP SW1 - 4'</u>	<u>12</u>									<u>and 9/7/22</u>
		<u> </u>	<u> </u>	<u>SEP SW2 - 4'</u>	<u>13</u>									
		<u> </u>	<u> </u>	<u>SEP SW3 - 4'</u>	<u>14</u>									
		<u> </u>	<u> </u>	<u>SEP SW4 - 4'</u>	<u>15</u>									
		<u> </u>	<u> </u>	<u>SEP SW5 - 4'</u>	<u>16</u>									
		<u> </u>	<u> </u>	<u>SEP SW6 - 4'</u>	<u>17</u>									
		<u> </u>	<u> </u>	<u>SEP SW7 - 4'</u>	<u>18</u>									

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

PITTS ENERGY

FEDERAL 54
DELINEATION SAMPLE MAP

Legend

- BATTERY HORIZONTAL SAMPLE POINTS
- BATTERY VERTICAL SAMPLE POINTS
- Federal 54 Battery
- FINAL IMPACT AREA: 10,680 SQ. FT.
- SEPARATOR HORIZONTAL SAMPLE POINTS
- SEPARATOR VERTICAL SAMPLE POINTS



Federal 54 Battery



100 ft

CLIENTS	PITTS ENERGY
LOCATION	FEDERAL 54

SAMPLE ID	LAT	LONG
DELINEATION SAMPLE GPS ON BATTERY AREA		
SP1	33.593950	-103.244407
SP2	33.594037	-103.244399
SP3	33.593946	-103.244290
SP4	33.594033	-103.244292
SP5	33.593945	-103.244177
SP6	33.594024	-103.244173
SP7	33.593983	-103.244359
SP8	33.593982	-103.244270
SP9	33.593981	-103.244172
SW1	33.594057	-103.244226
SW2	33.594069	-103.244371
SW3	33.594033	-103.244444
SW4	33.593962	-103.244441
SW5	33.593918	-103.244366
SW6	33.593915	-103.244231
SW7	33.593953	-103.244126
SW8	33.594007	-103.244126
DELINEATION SAMPLE GPS ON SEPERATOR AREA		
SP1	33.594014	-103.243612
SP2	33.593975	-103.243639
SP3	33.593982	-103.243718
SP4	33.593996	-103.243790
SP5	33.593992	-103.243847
SP6	33.593994	-103.243929
SP7	33.593959	-103.244000
SP8	33.594000	-103.244032
SP9	33.594029	-103.243904
SW1	33.594000	-103.243585
SW2	33.594020	-103.243717
SW3	33.594053	-103.243868
SW4	33.594021	-103.244012
SW5	33.593979	-103.244057
SW6	33.593938	-103.243963
SW7	33.593942	-103.243766

PITTS ENERGY

FEDERAL 54 BATTERY DELINEATION SITE PHOTOS



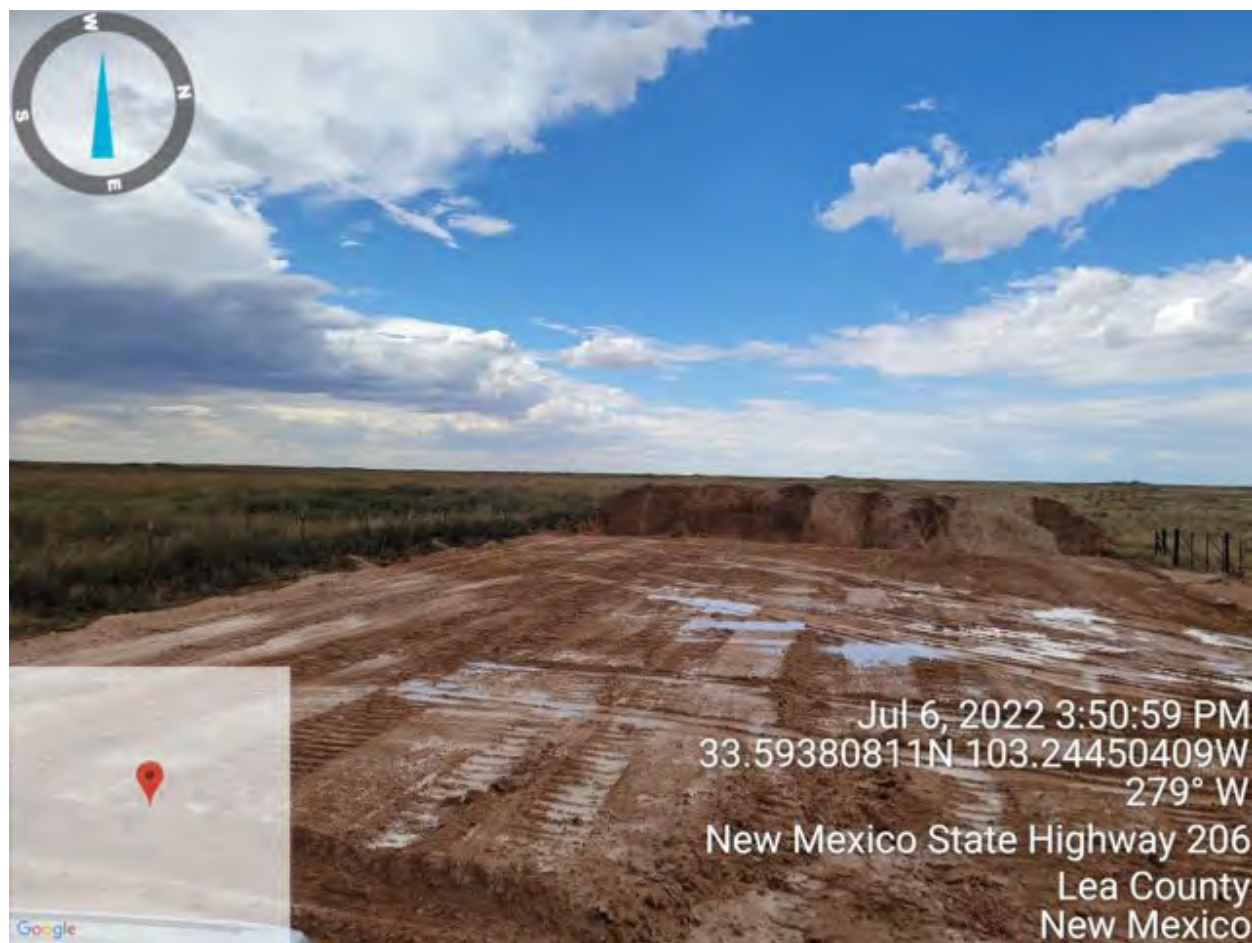
NEW BATTERY PAD AND REMOVAL OF OLD BERMED AREA

















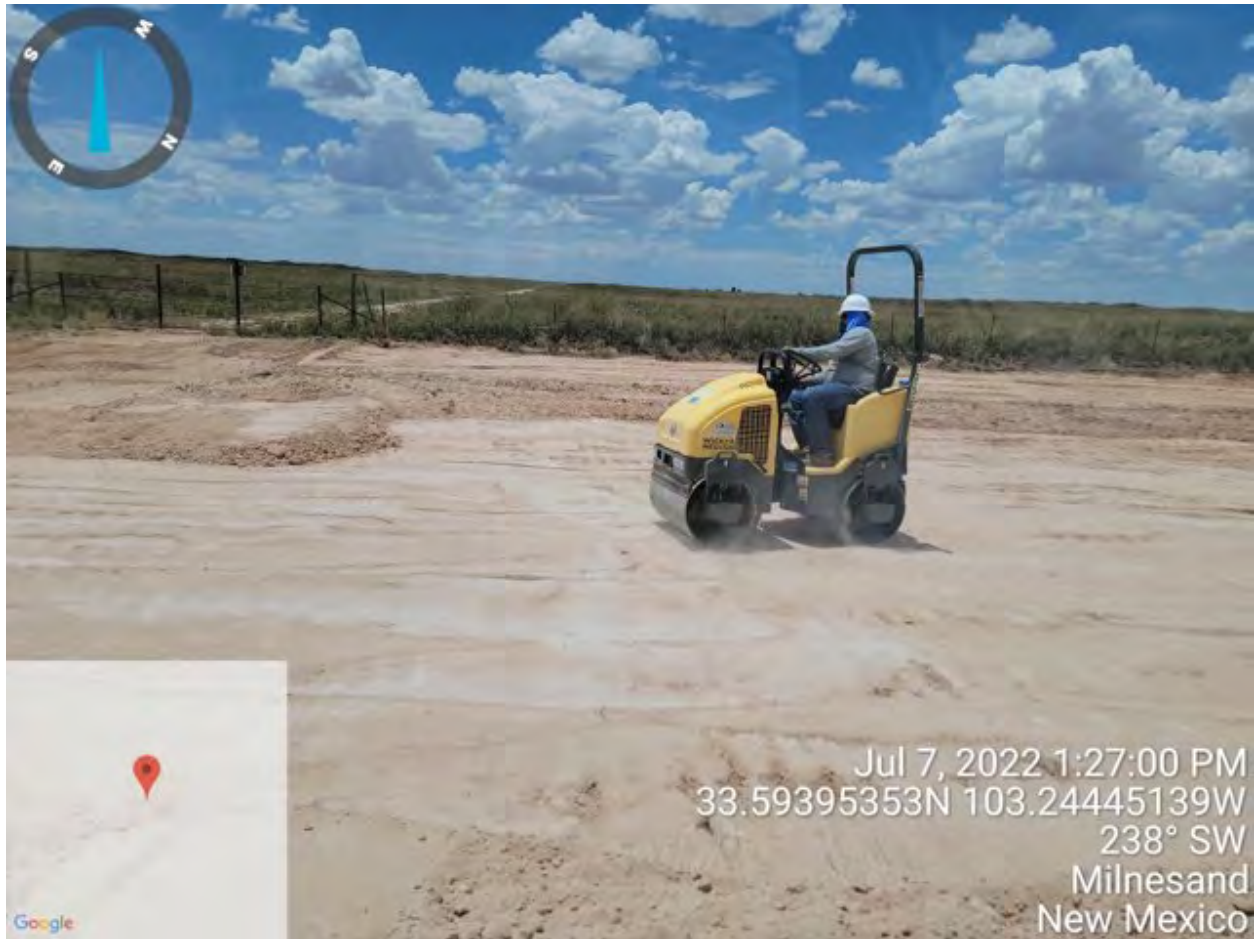
Jul 7, 2022 4:47:28 PM
33.59410407N 103.2445002W
210° SW
Milnesand
New Mexico



Jul 7, 2022 4:47:14 PM
33.59396808N 103.24450736W
221° SW
Milnesand
New Mexico



Jul 7, 2022 4:41:40 PM
33.59373779N 103.24449302W
308° NW
New Mexico State Highway 206
Lea County
New Mexico







Jul 6, 2022 3:05:19 PM
33.59404678N 103.24466059W
1° N
New Mexico State Highway 206
Lea County
New Mexico









DELINEATION PHOTOS

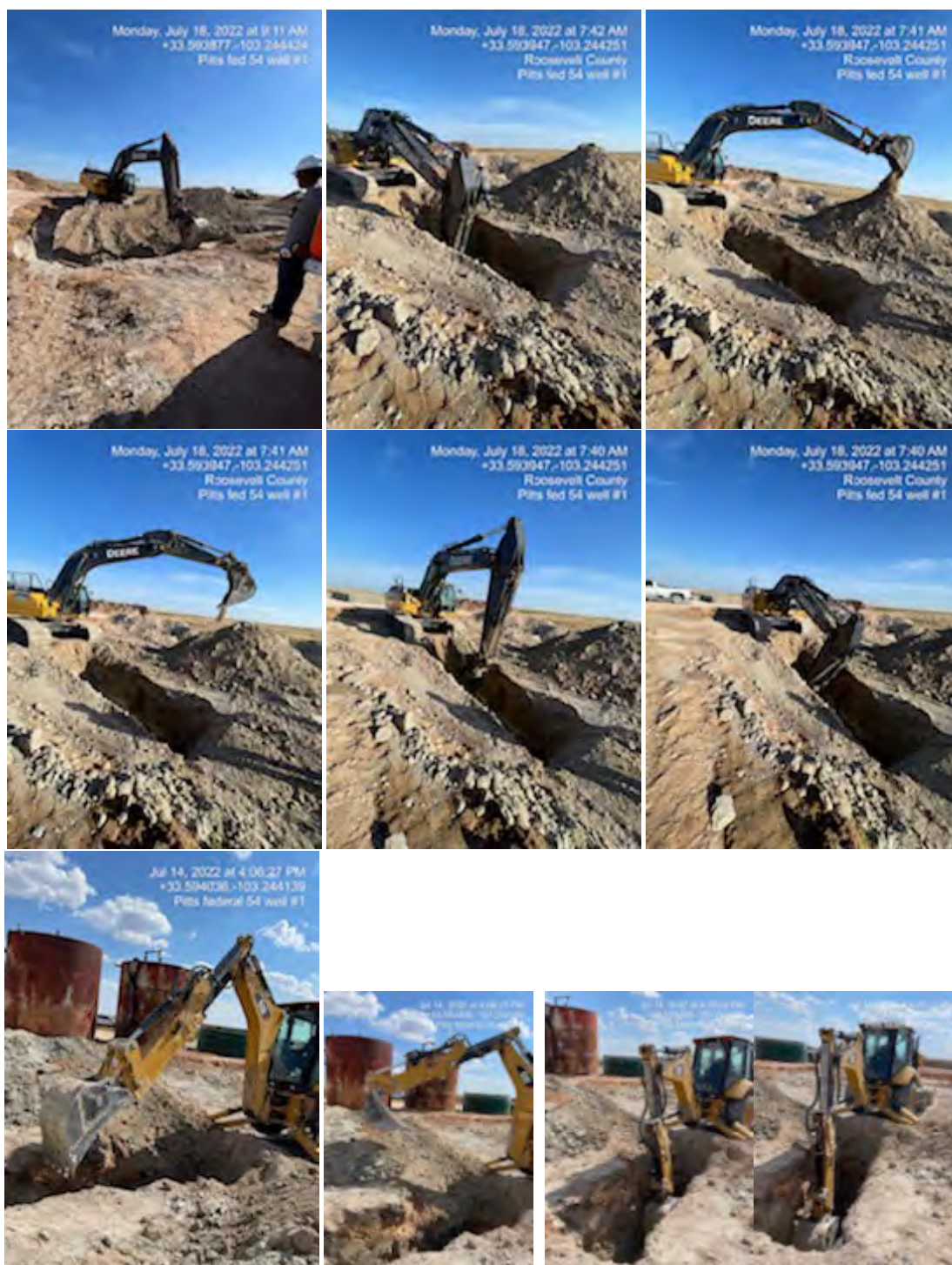




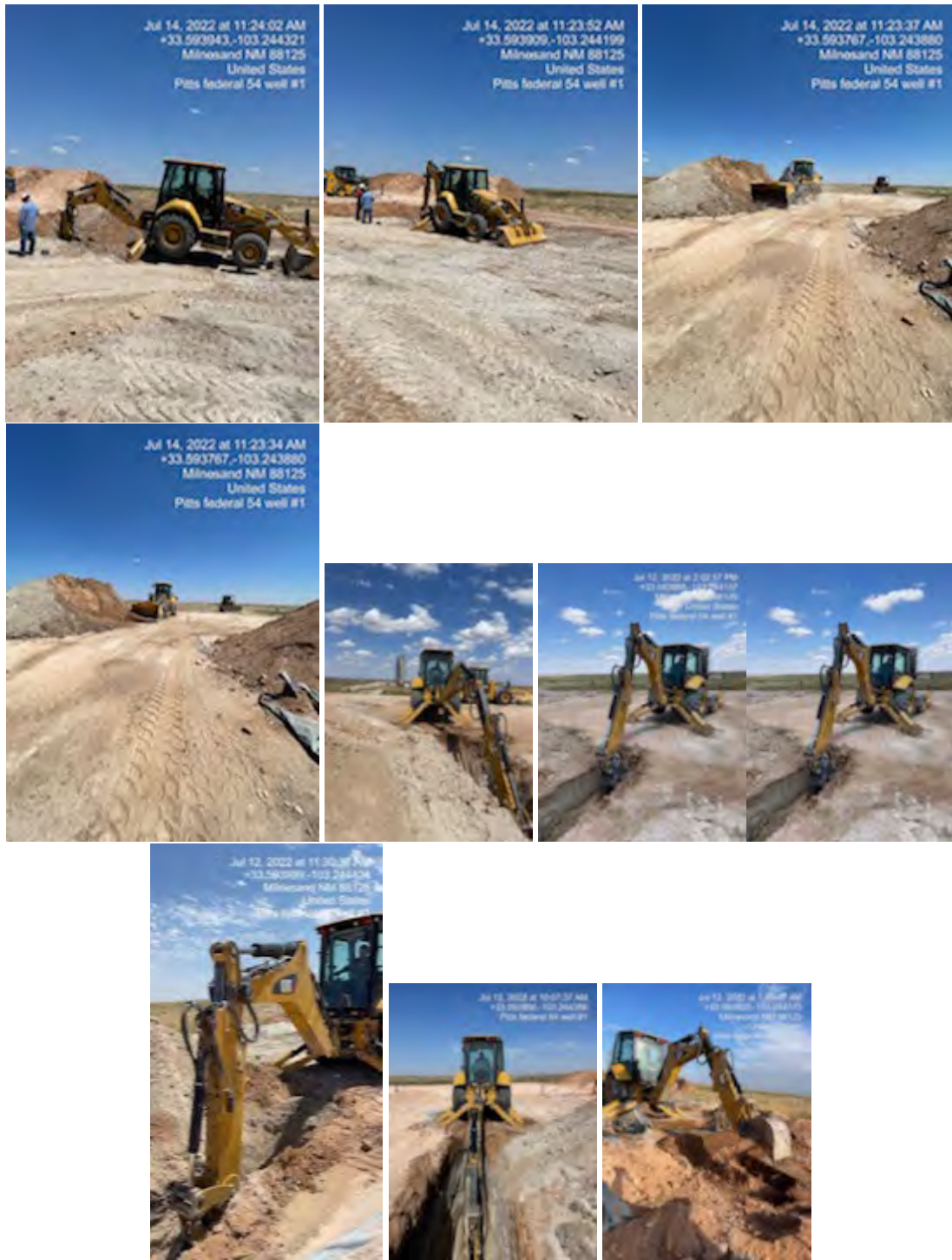






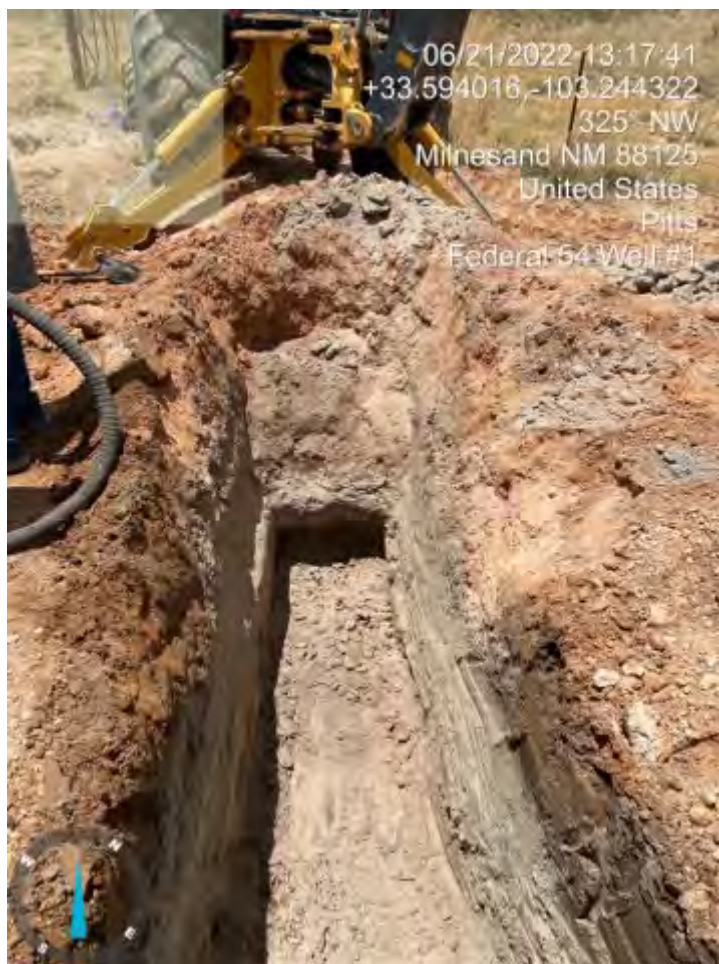


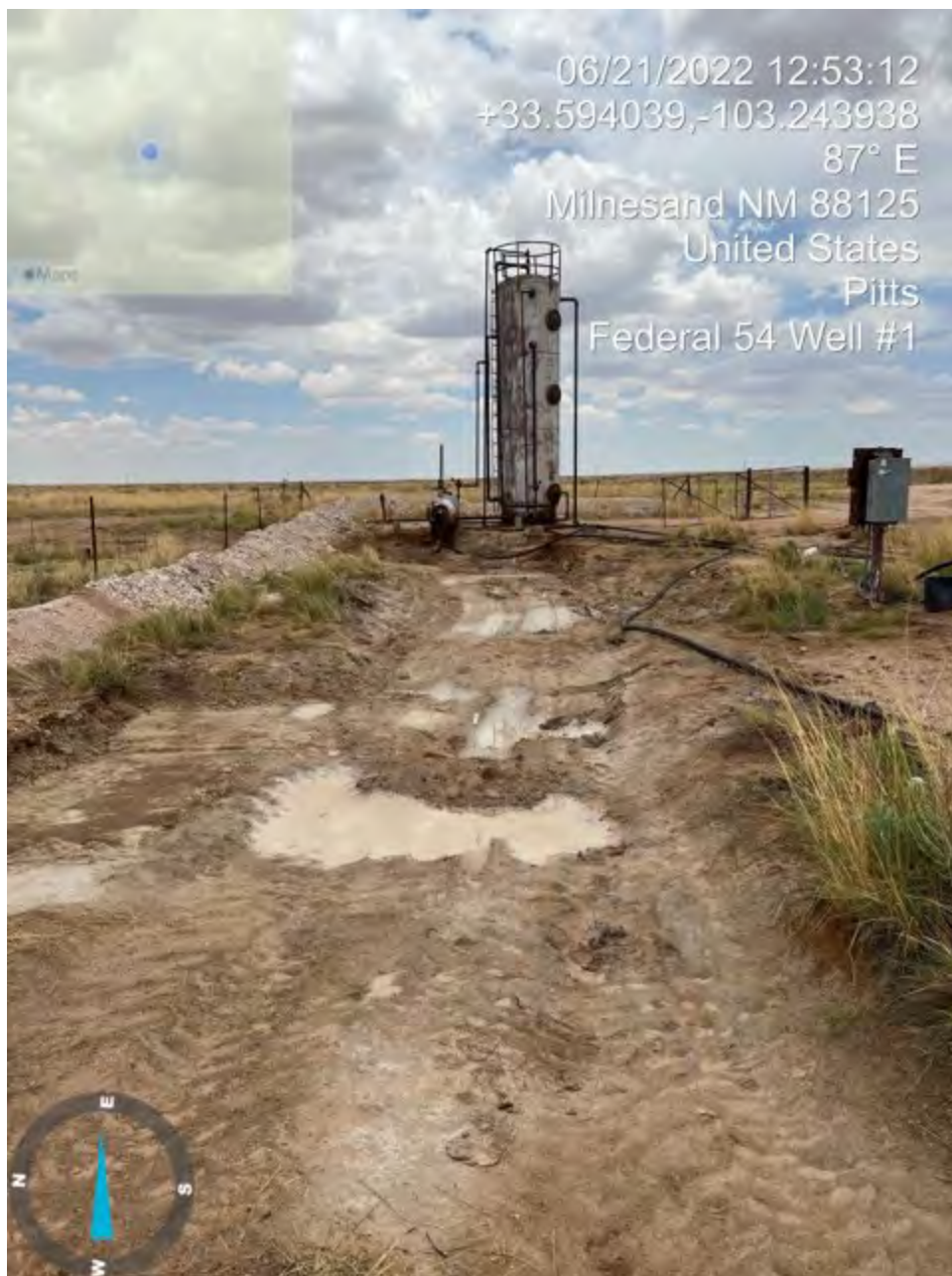


















Incident ID	
District RP	
Facility ID	
Application ID	

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?	>100 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-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.

Form C-141

State of New Mexico

Page 4

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: NATALIE GLADDEN Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORYSignature: Date: 9-12-22email: natalie@energystaffingllc.comTelephone: 575-390-6397**OCD Only**

Received by: _____

Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Natalie Gladden Title: Director of Environmental and Regulatory

Signature:  Date: 9-12-22

email: natalie@energystaffingllc.com Telephone: 575-390-6397

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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

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

CONDITIONS

Action 142821

CONDITIONS

Operator: PITTS ENERGY CO 3313 CALDERA BLVD Midland, TX 79707	OGRID: 17786
	Action Number: 142821
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation Plan is approved as written. Remediation Due date updated to August 28, 2023.	6/28/2023