

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

Accepted - 05/19/2023

Responsible Party

NV

Responsible Party: DJR Operating LLC	OGRID: 371838
Contact Name: Larissa Farrell	Contact Telephone: (505) 444-0289
Contact email: lfarrell@djrlc.com	Incident # (assigned by OCD) nAPP2134852620
Contact mailing address: 1 Road 3263 Aztec, NM 87410	

Location of Release Source

Latitude 36.20688 _____ Longitude -107.20723 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jicarilla 429 #004	Site Type: Well Site
Date Release Discovered: 11/25/2021	API# (if applicable) 30-043-20754

Unit Letter	Section	Township	Range	County
I	24	23N	05W	Sandoval

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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 0.59	Volume Recovered (bbls) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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: Release was discovered and it was determined that an underground flowline was leaking. Once excavation began it was determined that this release was reportable. Approximately 58 yards was excavated and disposed at a certified facility.

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: Dacye Shull _____	Title: Regulatory Technician _____
Signature:  _____	Date: 12/14/2021 _____
email: dshull@djrlc.com _____	Telephone: (505)634-6722 _____
<u>OCD Only</u>	
Received by: _____	Date: _____



February 21, 2022

Project #17035-0289

Ms. Larissa Farrell
1 Road 3263
Aztec, New Mexico 87410

Phone: (505)-444-0289
E-mail: lfarrell@djrlc.com

RE: Confirmation Soil Sampling at the Jicarilla 429 #4 Well Site located in Section 24, Township 23N, Range 5W, Sandoval County, New Mexico

Dear Ms. Farrell,

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was retained by DJR LLC (DJR) on December 2, 2021, to perform confirmation sampling from a released 1 barrel of oil at the Jicarilla 429 #4 well site (API: 30-043-20754). The release was the result of an equipment failure of the production line. The site is located in Section 24, Township 23 North, Range 5 West, Sandoval, New Mexico; see enclosed: **Figure 1, Vicinity Map.**

Regulatory Standards

The site is approximately 1,041 feet from a tributary of Largo Canyon. Based on a C-144 dated December 2, 2005; groundwater is estimated to be between 50 and 100 feet deep. The site closure criteria was determined to be most stringent standards per the direction of Jicarilla Oil and Gas Administration (JOGA). Siting criteria documentation for the subject well site is provided in **Appendix A, Siting Documentation.**

The following closure criteria from 19.15.29.12 NMAC were applied:

Constituent	Method	Limit
Total Petroleum Hydrocarbons (TPH)	EPA Method 8015D	100 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA Method 8021B	50 mg/kg
Benzene	EPA Method 8021B	10 mg/kg
Chlorides	EPA Method 300.0	600 mg/kg

Activities Performed

Envirotech personnel arrived on site on December 2, 2021. Upon arrival, a job safety analysis (JSA) and site assessment were performed before confirmation sampling activities commenced. Observations during the site assessment included a remediation excavation located north of the separator and extended towards the above ground storage tank (AST) in a northern direction; see **Figure 2, Site Map** and **Appendix B, Daily Spill Visit with Photos**

DJR LLC
Jicarilla 429 #4 Confirmation Sampling
Sandoval County, New Mexico
February 21, 2022
Page 2

The excavation located north of the separator measured approximately 20 feet by 15 feet by 7 feet below ground surface (bgs). The trench excavation measured approximately 40 feet by 3 feet by 3 feet bgs.

Field Screening

Soil Sample Field Screening

The excavation was guided using field screening methods. Field screening for volatile organic compounds (VOCs) was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Prior to performing field screening activities, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas. The soil sample was also screened in the field for TPH per United States Environmental Protection Agency (EPA) Method 418.1 using an Infracal Total Oil and Grease (TOG)/ TPH Analyzer. A three-point calibration was completed prior to conducting soil screening. Field screening protocol followed the manufacture's operating procedures.

Field Screening Results

A total of nine (9) soil samples were collected from the release excavation. All field screening results are summarized below and in **Appendix C, Field Notes with EPA Method 418.1 Field Screening Results**:

Sample Identification	TPH (mg/kg)	VOC (ppm)
CS-1	28	2.4
CS-2	0.0	1.5
CS-3	0.0	0.9
CS-4	412	95.8
CS-5	28	525.2
CS-6	148	0.6
CS-7	0.0	0.4
CS-6 + 8"	64	1.0
CS-4 + 1.5'	16	1.2

Confirmation Soil Sample Collection

A total of eight (8) 5-point composite samples were submitted for laboratory analysis from the excavation. All soil samples collected for laboratory analysis were placed into individual laboratory provided 4-ounce glass jars, capped head space free, and transported in a cooler on ice under strict chain of custody protocol to Envirotech Analytical Laboratory of Farmington, New Mexico. Samples were analyzed for contaminants of concern (COCs), in accordance with the methods referenced in the Regulatory Standards section of this report.

DJR LLC
Jicarilla 429 #4 Confirmation Sampling
Sandoval County, New Mexico
February 21, 2022
Page 3

Laboratory Analytical Results

The laboratory analytical results were below all laboratory detection limits as well as regulatory limits in all soil samples analyzed. **See Table 1, Summary of Soil Analytical Results and Appendix D, Laboratory Analytical Report.**

Summary and Conclusions

On December 2, 2021, Envirotech personnel completed the sampling for a remediation excavation. Based on the final laboratory analytical results of the release, all contaminants of concern were below the applicable regulatory standards for the excavation. Envirotech recommends **No Further Action** regarding the subject crude oil release.

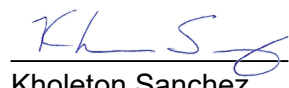
Statement of Limitations

The work and services provided were in accordance with NMOCD and JOGA standards. All observations and conclusions provided here are based on the information and current site conditions found at the subject well site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate you choosing Envirotech. If you have any questions or if you need additional information, please contact our office at (505) 632-0615.

Sincerely,

ENVIROTECH INC.



Kholeton Sanchez

Environmental Field Technician

ksanchez@envirotech-inc.com

Figures: Figure 1, *Vicinity Map*
Figure 2, *Site Map*

Tables: Table 1, *Summary of Soil Analytical Results*

Appendices: Appendix A, *Siting Criteria Documentation*
Appendix B, *Daily Spill Visit Report with Photos*
Appendix C, *Field Notes with EPA Method 418.1 Field Screening Results*
Appendix D, *Laboratory Analytical Report*

Figures

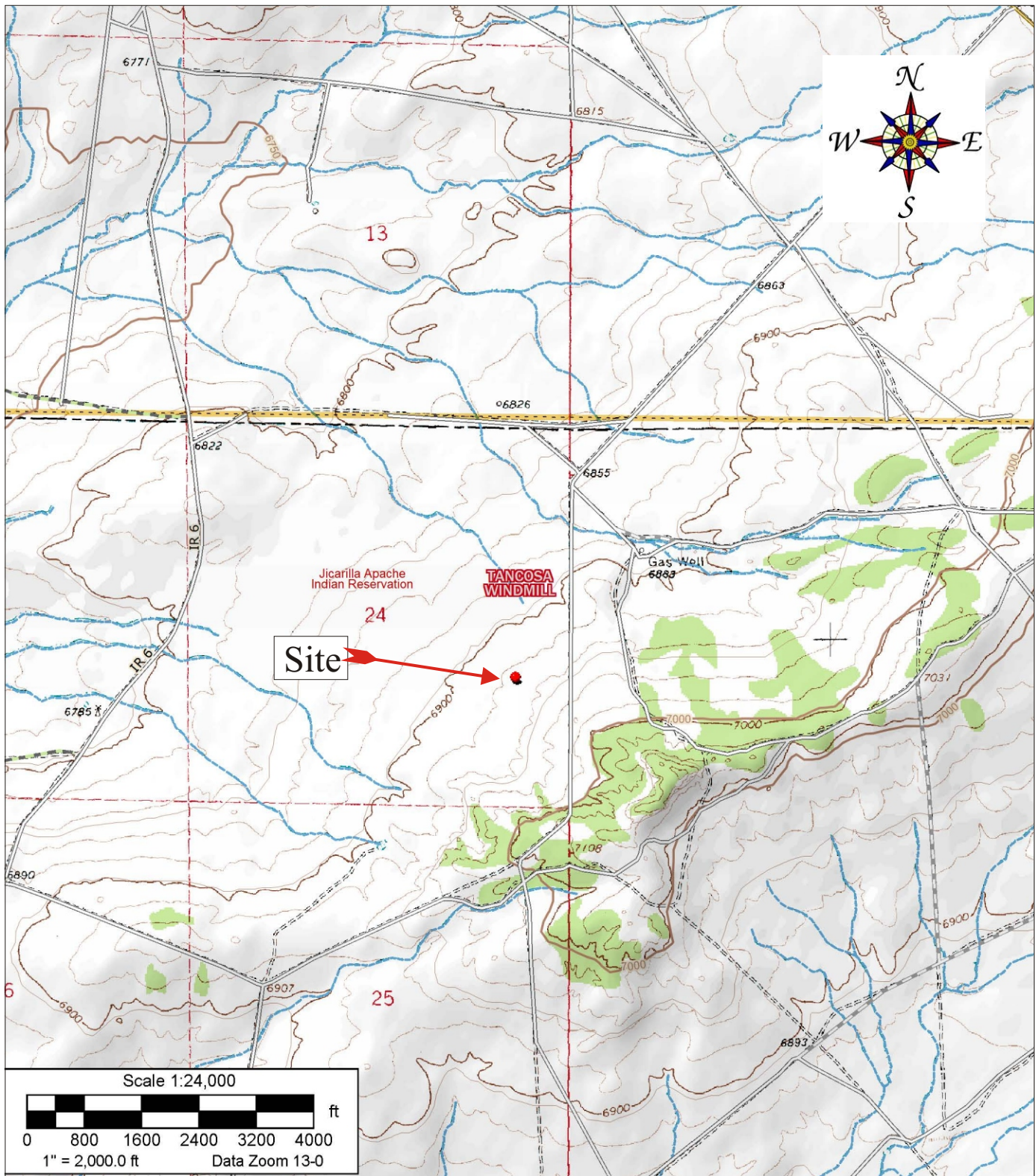


Figure 1, *Vicinity Map*

Figure 2, *Site Map*



Practical Solutions for a Better Tomorrow

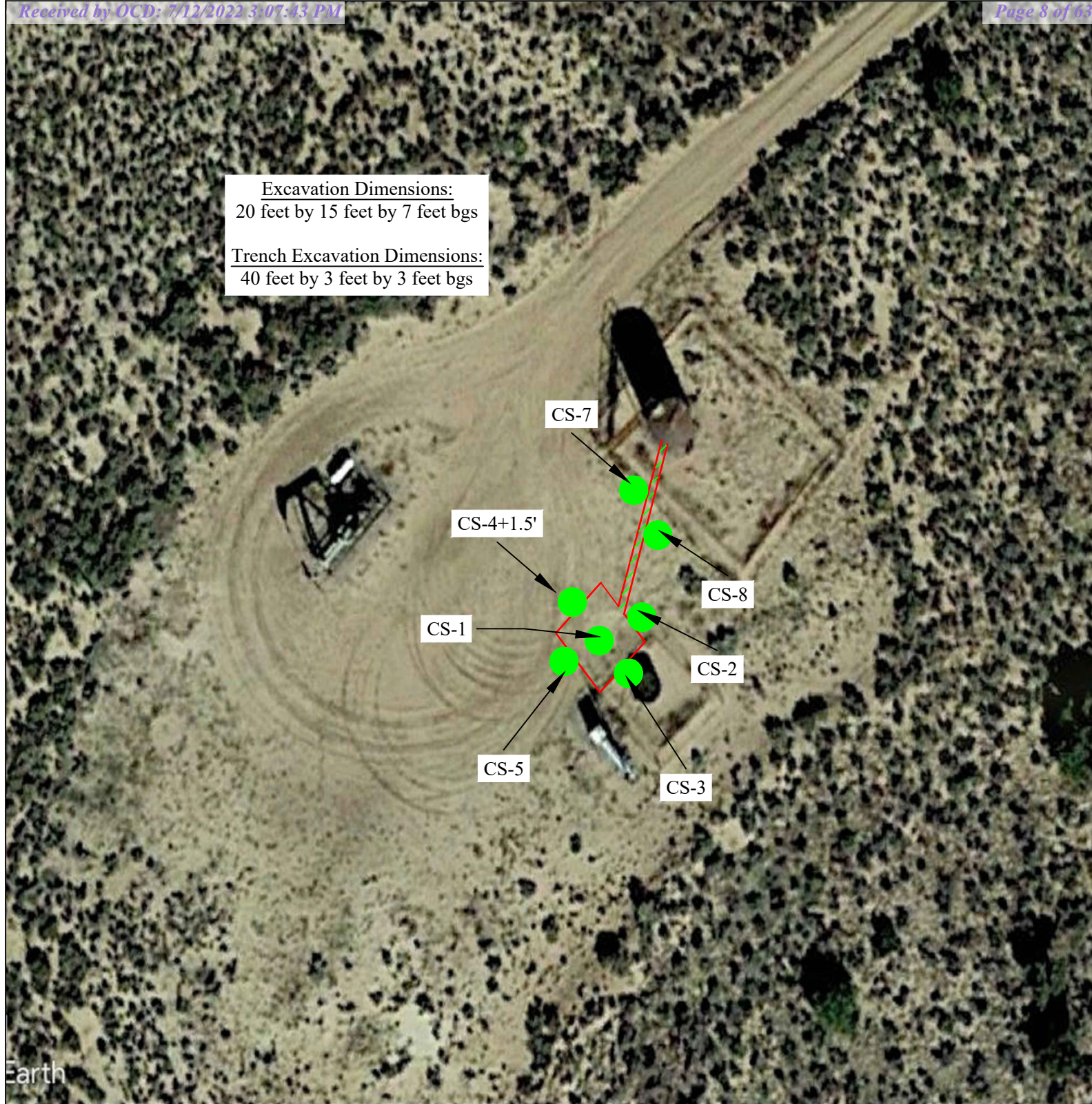


Source: 7.5 Minute, Tancosa Windmill, New Mexico U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2,000

DJR Operating, LLC. Release Closure Report Jicarilla 429 #4 Well Site API: 30-043-20754 Section 24, Township 23N, Range 5W Sandoval County, New Mexico 36.20693, -107.30728		 ENVIRONMENTAL SCIENTISTS & ENGINEERS		Vicinity Map	
Project Number: 17035-0289		Date Drawn: 02/17/2022		Figure #1	
		5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615		DRAWN BY: Brittany Hall	PROJECT MANAGER: Felipe Aragon

Excavation Dimensions:
20 feet by 15 feet by 7 feet bgs

Trench Excavation Dimensions:
40 feet by 3 feet by 3 feet bgs



Legend

- Excavation
- - Sample Location (5-point composite)
- /// - CS-6+8" (trench base sample)



Released to: Imaging 5/19/2023 10:18:14 AM 505-632-0615

MAP DRAWN BY:
KJCS
2/15/2022

REVISIONS BY:
BAH
2/17/2022

APPROVED BY:
FA
2/21/2022

Scale
1" = 35'

Figure 2, Site Map

DJR Operating, LLC
Release Closure Report
Jicarilla 429 #4 Well Site
API: 30-043-20754
Sandoval County, New Mexico
Section 24, Township 23N, Range 5W
Project #17035-0289

Tables



Table 1, *Summary of Soil Analytical Results*



Practical Solutions for a Better Tomorrow

Table 1, Summary of Soil Analytical Results
DJR Operating LLC
Release Closure Report
Jicarilla 429 #4 API:30-043-20754
Section 24, Township 23N, Range 5W
Sandoval County, New Mexico
Project #17035-0289

Sample Description	Date	Sample Depth (ft)	EPA Method 8015			EPA Method 8021		EPA Method 300.0
			GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
NMOCD Release Closure Criteria (Table 1 - 19.15.29.12 NMAC)			100 mg/kg			10 mg/kg	50 mg/kg	600 mg/kg
CS-1	12/2/2021	0.5'	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-2		0.5'	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-3		0.5'	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-4+1.5'		1.5'	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-5		0.5'	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-6+8'		8.0'	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-7		0.5'	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0
CS-8		0.5'	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0



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Appendix A



Siting Criteria Documentation

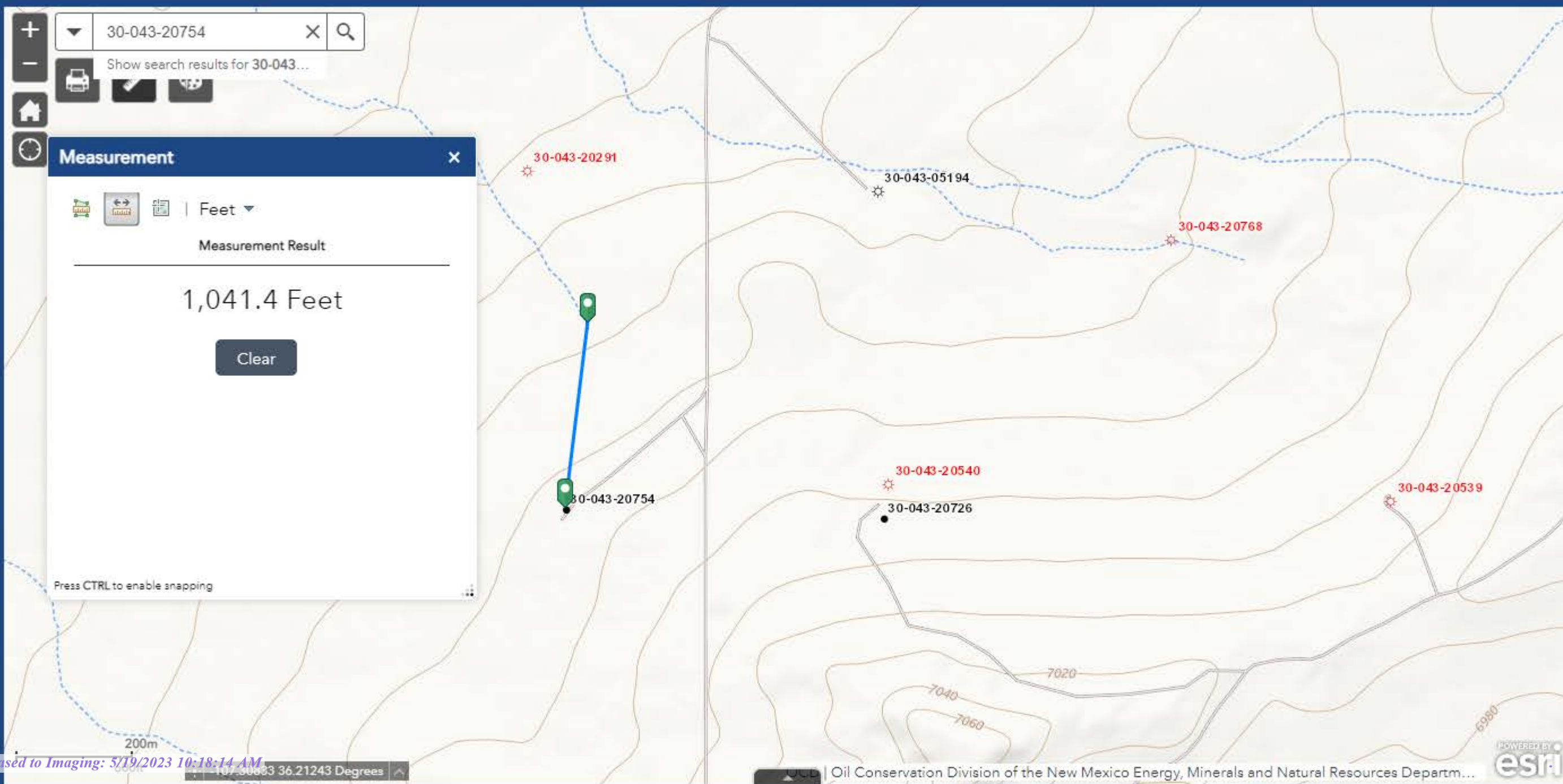



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Site Name:	Jicarilla 429 #4			
API #:	30-043-20754			
Lat/Long:	36.20693, -107.30728			
TRS:	Sec 24 T23N R5W			
Land Jurisdiction:	Tribal			
County:	Sandoval			
Wellhead Protection Area Assessment				
Water Source Type (well/spring/stock pond)	ID	Latitude	Longitude	Distance
well	SJ-01189			4.06 miles
Distance to Nearest Significant Watercourse				
1041 feet to tributary of Largo Canyon				
Depth to Groundwater Determination				
Cathodic Report/Site Specific Hydrogeology	for C-144 dated 12/2/2005 dtw ranked at 50-100 ft			
Elevation Differential	site 6,930 tributary 6,895 = 35 ft difference			
Water Wells				
Sensitive Receptor Determination				
<300' of any continuously flowing watercourse or any other significant watercourse	No			
<200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water Mark)	No			
<300' of an occupied permanent residence, school, hospital, institution or church	No			
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering purposes	No			
<1000' of any water well or spring	No			
Within incorporated municipal boundaries or within a defined municipal fresh water well	No			
<300' of a wetland	No			
Within the area overlying a subsurface mine	No			
Within an unstable area	No			
Within a 100-year floodplain	No			
DTW Determination	≤50 <input type="checkbox"/>	50-100 <input checked="" type="checkbox"/>	>100 <input type="checkbox"/>	
Benzene	10	10	10	
BTEX (mg/kg)	50	50	50	
8015 TPH (GRO/DRO) (mg/kg)	Not Applicable	1,000	1,000	
8015 TPH (GRO/DRO/MRO) (mg/kg)	100	2,500	2,500	
Chlorides (mg/kg)	600	10,000	20,000	






Practical Solutions of a Better Tomorrow





Measurement

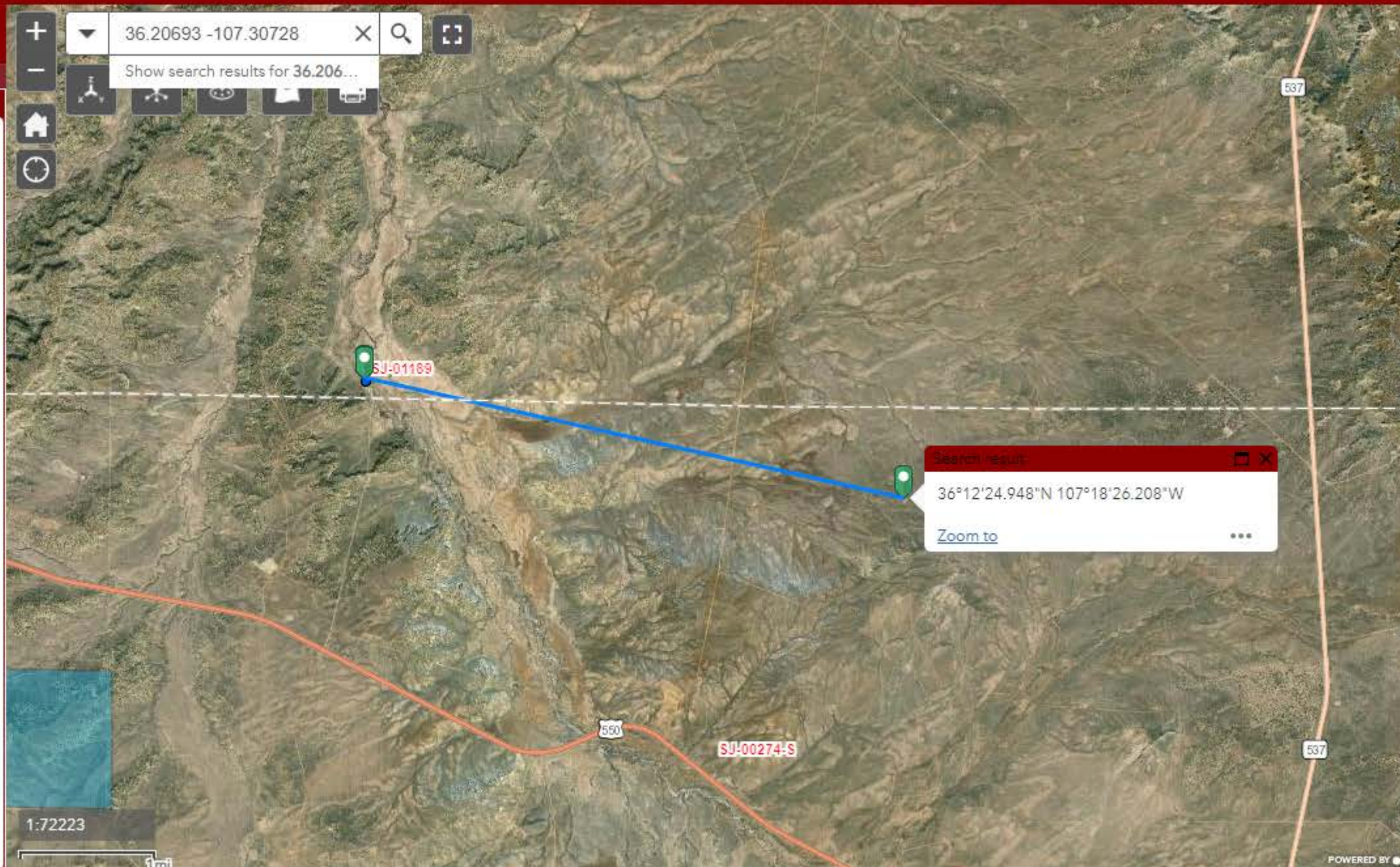
 | Miles ▾

Measurement Result

4.06 Miles

Clear

Press CTRL to enable snapping



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

QUESTIONS

Action 67011

QUESTIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 67011
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	Jicarilla 429 #004
Date Release Discovered	11/25/2021
Surface Owner	Jicarilla

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL]
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Release was discovered and it was determined that an underground flowline was leaking. Once excavation began it was determined that this release was reportable. Approximately 58 yards was excavated and disposed at a certified facility.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 2

Action 67011

QUESTIONS (continued)

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 67011
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More volume information must be supplied to determine if this will be treated as a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	No, not enough information provided to determine release severity.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, to whom	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, when	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	<i>Not answered.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 67011

ACKNOWLEDGMENTS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 67011
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 67011

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 67011
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
dshull01	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/14/2021

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

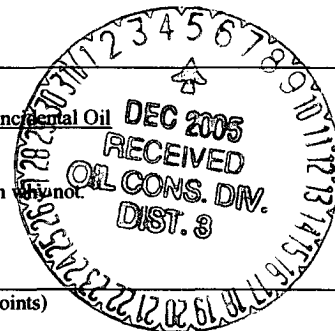
Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Elm Ridge Resources Telephone: (505) 632-3476 e-mail address: amackey1@elmridge.net
Address: #20 CR 5060, Bloomfield, New Mexico, 87413
Facility or well name: Jicarilla 429 No. 004 API #: 3004320754 U/L or Qtr/Qtr I Sec 24 T 23N R 5W
County: Sandoval Latitude 36.5892667 Longitude -107.4478 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl		Below-grade tank Volume: <u>60</u> bbl Type of fluid: <u>Produced Water and Incidental Oil</u> Construction material: <u>Fiberglass</u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points)	10	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points)	0	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points)	0	
Ranking Score (Total Points)		10	



If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

The soils tested clean and no soil remediation was required.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 12/2/05

Printed Name/Title Ms. Amy Mackey, Production Technician

Signature Amy Mackey

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: DEPUTY OIL & GAS INSPECTOR DIST. 3
Printed Name/Title _____ Signature Wendy Fent

Date: DEC 05 2005

ENVIROTECH INC.**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Elm Ridge Resources	Project #:	03056-040-003
Sample No.:	1	Date Reported:	11/21/2005
Sample ID:	Composite sample below BGT	Date Sampled:	11/21/2005
Sample Matrix:	Soil	Date Analyzed:	11/21/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

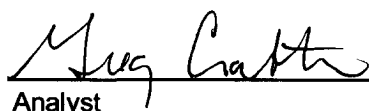
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	796.0	5.0

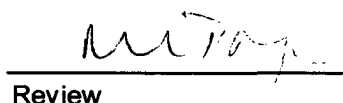
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Jicarilla 429 No. 004

Instrument calibration checked against 200 ppm standard. Zeroed before each sample



Analyst

Review

ENVIROTECH INC.**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Elm Ridge Resources	Project #:	03056-040-003
Sample No.:	2	Date Reported:	11/21/2005
Sample ID:	Composite sample of walls	Date Sampled:	11/21/2005
Sample Matrix:	Soil	Date Analyzed:	11/21/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------


Total Petroleum Hydrocarbons	32.0	5.0
-------------------------------------	-------------	------------

ND = Parameter not detected at the stated detection limit.

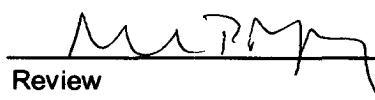
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429 No. 004**


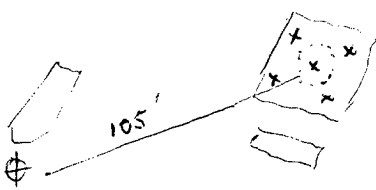
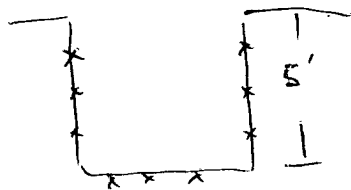
Instrument callibration checked against 200 ppm standard. Zeroed before each sample



Analyst



Review

CLIENT: _____	ENVIROTECH INC. <small>ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615</small>	LOCATION NO: _____ C.O.C. NO: _____																																								
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME: <u>Jicarilla 429</u> WELL #: <u>4</u> PIT: <u>Sep</u> QUAD/UNIT: <u>I</u> SEC: <u>24</u> TWP: <u>23</u> RNG: <u>5</u> PM: <u>NM</u> CNTY: <u>Sandoval</u> ST: <u>NM</u> QTR/FOOTAGE: _____ CONTRACTOR: <u>36.206883 -107.307283</u>		DATE STARTED: <u>11/21/05</u> DATE FINISHED: <u>11/21/05</u> ENVIRONMENTAL SPECIALIST: <u>G. Crabtree</u>																																								
EXCAVATION APPROX. <u>0</u> FT. x <u>0</u> FT. x <u>0</u> FT. DEEP. CUBIC YARDAGE: <u>0</u> DISPOSAL FACILITY: _____ REMEDIATION METHOD: _____ LAND USE: _____ LEASE: _____ FORMATION: _____																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>105</u> FT. <u>75°</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>50-100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u> NMOC D RANKING SCORE: <u>10</u> NMOC D TPH CLOSURE STD: <u>1000</u> PPM SOIL AND EXCAVATION DESCRIPTION:																																										
CHECK ONE: <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED																																										
Soils tested clean below tank and on walls, no further Soil remediation is required																																										
FIELD 418.1 CALCULATIONS																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>SAMPLE I.D.</th> <th>LAB No:</th> <th>WEIGHT (g)</th> <th>mL. FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. ppm</th> </tr> </thead> <tbody> <tr> <td>1150</td> <td>wall composite</td> <td></td> <td>5.0</td> <td>20</td> <td>4</td> <td>32</td> <td>128</td> </tr> <tr> <td>1155</td> <td>bottom</td> <td></td> <td>5.0</td> <td>20</td> <td>4</td> <td>32</td> <td>128</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	1150	wall composite		5.0	20	4	32	128	1155	bottom		5.0	20	4	32	128																
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																																			
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1155	bottom		5.0	20	4	32	128																																			
SCALE  0 FT	PIT PERIMETER 	OVM RESULTS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td>1 walls</td><td>0.0</td></tr> <tr><td>2 bottom</td><td>0.0</td></tr> <tr><td>3</td><td> </td></tr> <tr><td>4</td><td> </td></tr> <tr><td>5</td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 walls	0.0	2 bottom	0.0	3		4		5																													
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5																																										
PIT PROFILE 																																										
LAB SAMPLES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			SAMPLE ID	ANALYSIS	TIME																																					
SAMPLE ID	ANALYSIS	TIME																																								
TRAVEL NOTES: CALLOUT: _____ ONSITE: _____																																										

Appendix B



Daily Spill Visit with Photos



Practical Solutions for a Better Tomorrow



Daily Spill Visit Report

Client:	DJR	Inspection Date:	12/2/2021
Site Location Name:	Jicarilla 429 #4	Report Run Date:	2/17/2022 9:57 PM
Client Contact Name:	Larissa Farrell	API #:	3004320754
Client Contact Phone #:	505-444-0289		
Unique Project ID	17035-0289-Jicarilla 429 #4	Project Owner:	F. Aragon
Project Reference #	17035-0289	Project Manager:	B. Hall

Summary of Times

Arrived at Site	12/2/2021 1:13 PM
Departed Site	12/2/2021 4:23 PM

Field Notes

13:22 leak from separator to tank. unknown how long leak was active. discovered leak on Thanksgiving morning when contamination was visible at the surface.

Larissa Farrel with DJR and roundabout company on-site.

16:23 excavation approximately 20 ft by 15 ft by 7 ft bgs

trench approximately 40 ft by 3 ft by 3 ft bgs

Next Steps & Recommendations

1



Daily Spill Visit Report

Summary of Daily Soil Sampling

Client Name	DJR
Client Contact	Larissa Farrell
Client Contact P#	505-444-0289
Reference Number	17035-0289

Project Owner	F. Aragon
Project Manager	B. Hall
Field Supervisor	B. Hall
Unique Project ID	17035-0289- Jicarilla 429 #4
Project Site Name	Jicarilla 429 #4

Project Start Date	12/2/2021
Project End Date	12/2/2021
Report Run Date	2/17/2022
API #	3004320754

Sample Point Data

(Logged by: Brittany Hall)

Sample Point ID	SS21-01
Sample Point Lat	
Sample Point Long	

Well Top Elevation	
Total Depth	
Depth to Water	

UTM Zone (10-19)	
Drilling Company	
Drilling Method	

SS21-01 0.0' [Logged by: Brittany Hall on 12/2/2021]

SS21-01 HZN-A	Sample Depth	Sample Type	Grab Count	VOC Method	VOC Concentration	TPH Method	TPH Concentration	EC Method	EC Conductivity	Chloride Method	Chloride Concentration
	0.0	Composite Sample		PID	2 PPM	PetroFlag	28 PPM			Quantabs	34 PPM
NOTES: CS-1 was collected from base of excavation. total depth of excavation is approximately 7 feet											

Daily Spill Visit Report

Site Photos

Viewing Direction: East



excavation

Viewing Direction: North



excavation

Viewing Direction: North



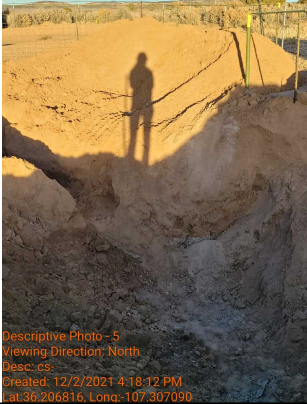

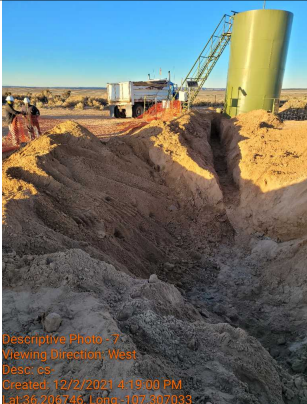
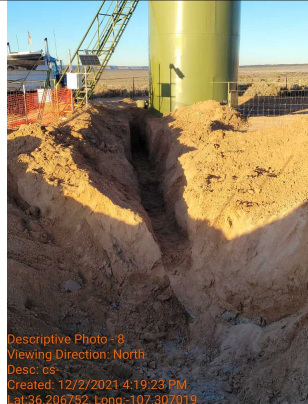
excavation and trench to AST

Viewing Direction: East

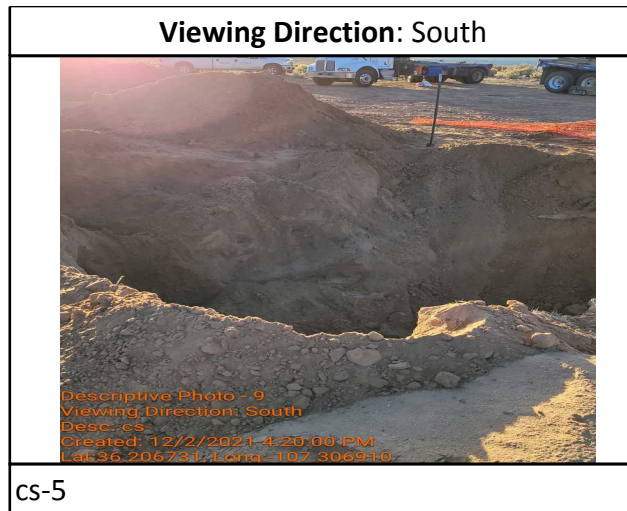


cs-3

Daily Spill Visit Report

<p>Viewing Direction: North</p>  <p>Descriptive Photo - 5 Viewing Direction: North Desc: cs Created: 12/2/2021 4:18:12 PM Lat:36.206816, Long:-107.307090</p> <p>CS-2</p>	<p>Viewing Direction: Northeast</p>  <p>Descriptive Photo - 6 Viewing Direction: Northeast Desc: cs Created: 12/2/2021 4:18:20 PM Lat:36.206802, Long:-107.307082</p> <p>CS-1</p>
<p>Viewing Direction: West</p>  <p>Descriptive Photo - 7 Viewing Direction: West Desc: cs Created: 12/2/2021 4:19:00 PM Lat:36.206746, Long:-107.307033</p> <p>CS-4</p>	<p>Viewing Direction: North</p>  <p>Descriptive Photo - 8 Viewing Direction: North Desc: cs Created: 12/2/2021 4:19:23 PM Lat:36.206782, Long:-107.307019</p> <p>CS-6, CS-7, and CS-8</p>

Daily Spill Visit Report





Daily Spill Visit Report

Daily Site Visit Signature

Inspector: Brittany Hall

Signature: A handwritten signature in blue ink that reads "Brittany Hall".


Appendix C



Field Notes with EPA Method 418.1 Field Screening Results



Practical Solutions for a Better Tomorrow

CLIENT: <u>DJR</u>				Envmtl. Spclst: <u>BH</u>	
CLIENT/JOB #: <u>17035-0289</u>				Onsite: <u>1315</u> Offsite: <u>V700</u>	
START DATE: <u>12/2/21</u>		505-632-0615 1-800-362-1879		LAT: <u>36.20693</u>	
FINISH DATE: <u>12/2/21</u>		5796 US Highway 64		LONG: <u>-107.30728</u>	
Page # _____ of _____		Farmington, NM 87401			

LOCATION:	Name: <u>Jicarilla 429</u>	Well #: <u>4</u>	API: <u>3004320154</u>
	County: <u>Sandoval</u>	State: <u>NM</u>	HWY-MM: _____
Cause of Release: <u>leaking line from sep</u>	Material Released: <u>Unknown</u>	Amt. Released: <u>Unknown</u>	
QUAD/UNIT: _____	SEC: <u>29</u>	TWP: <u>23N</u>	RNG: <u>5W</u> PM: _____
Spill Located Approximately: <u>10</u> FT.		FROM <u>Separator + AST</u>	
Excavation Approx: <u>15</u> FT. X <u>20</u> FT. X <u>7</u> FT.		Volume (cy/tons): _____	
Disposal Facility: _____		Trench 3' w x 40' L x 3' deep	
Land Use: _____		Land Owner: _____	
REGULATORY AGENCY: <u>JOGA</u>		TPH CLOSURE STD: <u>100</u>	
ADDITIONAL CLOSURE REQUIREMENTS: _____			

SAMPLE NAME	TIME COLLECTED	DESCRIPTION	VOC		TPH (Method 418.1)			Chloride	
			TIME	PID/OV ppm	TIME	READING	CALC ppm	TIME	mg/kg
200 std	_____	_____	_____	_____	1330	_____	193	_____	_____
* CS-1	1335	Excavation base	1451	2.4	1349	07	28	1350	2289
* CS-2	1437	Ex. N wall	1501	1.5	1450	08	8		
* CS-3	1438	Ex E wall	1504	0.9	1452	08	8		
* CS-4	1439	Ex W. wall	1507	2.4	1455	103	412		
* CS-5	1440	Ex S. wall	1509	525.2	1459	07	28		
* CS-6	1441	trench base	1511	0.6	1453	37	148		
* CS-7	1443	trench W wall	1515	0.4	1455	08	8		
* CS-6 + 8"	1521	trench base 8"	1538	1.0	1534	14	64		
* CS-4 + 1.5'	1550	Ex W. wall, + 1.5'	1602	1.2	1605	04	14		
* CS-8	1601	trench E + N wall							

NOTES: Include laboratory analysis information

CS-COMPOSITE SAMPLE

GS-GRAB SAMPLE

SB-SOIL BORING

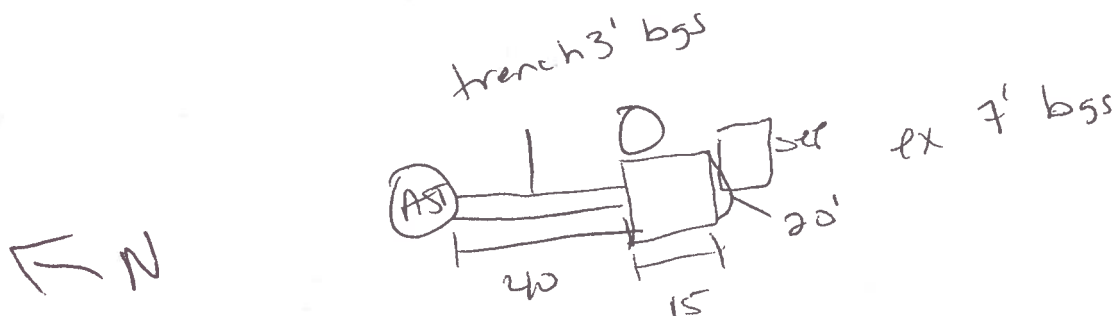
TP-TEST PIT

DU- DECISION UNIT

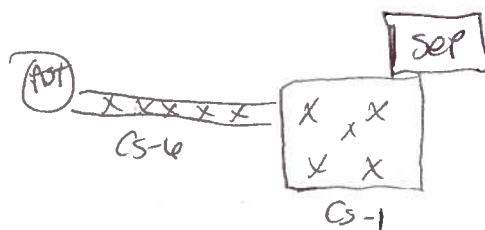
ST-STATION

1 Day TAT for samples

SITE PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed.

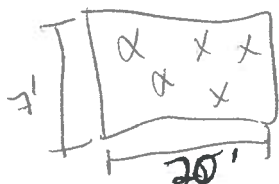


EXCAVATION OVERVIEW:



EXCAVATION PROFILE VIEWS:

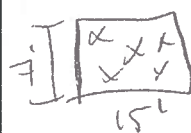
Sample Name: CS-2



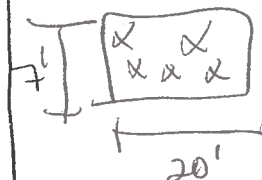
CS-3



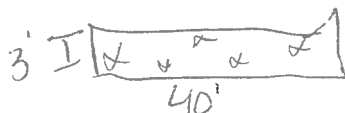
Sample Name: CS-4



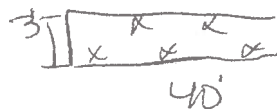
CS-5



Sample Name: CS-7



Sample Name: CS-8





**CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Cal. Date: 2-Dec-21

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	193
	200	
	500	
	1000	
	5000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst

2/18/2022

Date

Brittany Hall

Print Name

Review

2/18/2022

Date

Felipe Aragon, CES, CHMM

Print Name



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	1	Date Reported:	2/18/2022
Sample ID:	CS-1	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	28	5.0
-------------------------------------	-----------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

A handwritten signature in blue ink that reads 'Brittany Hall'.

Analyst

Brittany Hall

Printed

A handwritten signature in blue ink that reads 'Felipe Aragon'.

Review

Felipe Aragon, CES, CHMM

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	2	Date Reported:	2/18/2022
Sample ID:	CS-2	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------


Total Petroleum Hydrocarbons	ND	5.0
-------------------------------------	-----------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.



Analyst

Brittany Hall

Printed



Review

Felipe Aragon, CES, CHMM

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	3	Date Reported:	2/18/2022
Sample ID:	CS-3	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	ND	5.0
-------------------------------------	-----------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

A handwritten signature in blue ink that reads 'Brittany Hall'.

Analyst

Brittany Hall

Printed

A handwritten signature in blue ink that reads 'Felipe Aragon'.

Review

Felipe Aragon, CES, CHMM

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	4	Date Reported:	2/18/2022
Sample ID:	CS-4	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	412	5.0
-------------------------------------	------------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

A handwritten signature in blue ink that reads 'Brittany Hall'.

Analyst

Brittany Hall

Printed

A handwritten signature in blue ink that reads 'Felipe Aragon'.

Review

Felipe Aragon, CES, CHMM

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	5	Date Reported:	2/18/2022
Sample ID:	CS-5	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	28	5.0
-------------------------------------	-----------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

A handwritten signature in blue ink, appearing to read 'Brittany Hall', written over a horizontal line.

Analyst

Brittany Hall

Printed

A handwritten signature in blue ink, appearing to read 'Felipe Aragon', written over a horizontal line.

Review

Felipe Aragon, CES, CHMM

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	6	Date Reported:	2/18/2022
Sample ID:	CS-6	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	148	5.0
-------------------------------------	------------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

A handwritten signature in blue ink that reads 'Brittany Hall'.

Analyst

Brittany Hall

Printed

A handwritten signature in blue ink that reads 'Felipe Aragon'.

Review

Felipe Aragon, CES, CHMM

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	7	Date Reported:	2/18/2022
Sample ID:	CS-7	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	ND	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

A handwritten signature in blue ink that reads 'Brittany Hall'.

Analyst

Brittany Hall

Printed

A handwritten signature in blue ink that reads 'Felipe Aragon'.

Review

Felipe Aragon, CES, CHMM

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	8	Date Reported:	2/18/2022
Sample ID:	CS-6+8"	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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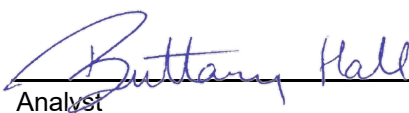
Total Petroleum Hydrocarbons	64	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.



Analyst

Brittany Hall

Printed



Review

Felipe Aragon, CES, CHMM

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	DJR	Project #:	17035-0289
Sample No.:	9	Date Reported:	2/18/2022
Sample ID:	CS-4+1.5'	Date Sampled:	12/2/2021
Sample Matrix:	Soil	Date Analyzed:	12/2/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	16	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 429**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

A handwritten signature in blue ink that reads 'Brittany Hall'.

Analyst

Brittany Hall

Printed

A handwritten signature in blue ink that reads 'Felipe Aragon'.

Review

Felipe Aragon, CES, CHMM

Printed

Appendix D



Laboratory Analytical Report



Practical Solutions for a Better Tomorrow

Report to:
Felipe Aragon



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

DJR Operating, LLC

Project Name: Jicarilla 429 #4 Confirmation
Sampling

Work Order: E112012

Job Number: 17035-0289

Received: 12/3/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/7/21

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: 12/7/21

Felipe Aragon
1 Rd 3263
Aztec, NM 87410



Project Name: Jicarilla 429 #4 Confirmation Sampling
Workorder: E112012
Date Received: 12/3/2021 10:50:00AM

Felipe Aragon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/3/2021 10:50:00AM, under the Project Name: Jicarilla 429 #4 Confirmation Sampling.

The analytical test results summarized in this report with the Project Name: Jicarilla 429 #4 Confirmation Sampling 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

DJR Operating, LLC	Project Name:	Jicarilla 429 #4 Confirmation Sampling	Reported:
1 Rd 3263	Project Number:	17035-0289	
Aztec NM, 87410	Project Manager:	Felipe Aragon	12/07/21 14:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1	E112012-01A	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
	E112012-01B	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
CS-2	E112012-02A	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
	E112012-02B	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
CS-3	E112012-03A	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
	E112012-03B	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
CS-4+1.5'	E112012-04A	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
	E112012-04B	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
CS-5	E112012-05A	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
	E112012-05B	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
CS-6+8"	E112012-06A	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
	E112012-06B	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
CS-7	E112012-07A	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
	E112012-07B	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
CS-8	E112012-08A	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.
	E112012-08B	Soil	12/02/21	12/03/21	Glass Jar, 4 oz.



Sample Data

DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: Jicarilla 429 #4 Confirmation Sampling Project Number: 17035-0289 Project Manager: Felipe Aragon	Reported: 12/7/2021 2:02:35PM
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CS-1

E112012-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Benzene	ND	0.0250	1	12/03/21	12/05/21	
Ethylbenzene	ND	0.0250	1	12/03/21	12/05/21	
Toluene	ND	0.0250	1	12/03/21	12/05/21	
o-Xylene	ND	0.0250	1	12/03/21	12/05/21	
p,m-Xylene	ND	0.0500	1	12/03/21	12/05/21	
Total Xylenes	ND	0.0250	1	12/03/21	12/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.3 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/03/21	12/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.1 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2149043	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/03/21	12/06/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/03/21	12/06/21	
<i>Surrogate: n-Nonane</i>	105 %	50-200		12/03/21	12/06/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2149042	
Chloride	ND	20.0	1	12/03/21	12/03/21	



Sample Data

DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: Jicarilla 429 #4 Confirmation Sampling
Project Number: 17035-0289
Project Manager: Felipe Aragon

Reported:
12/7/2021 2:02:35PM

CS-2

E112012-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2149045
Benzene	ND	0.0250	1	12/03/21	12/05/21	
Ethylbenzene	ND	0.0250	1	12/03/21	12/05/21	
Toluene	ND	0.0250	1	12/03/21	12/05/21	
o-Xylene	ND	0.0250	1	12/03/21	12/05/21	
p,m-Xylene	ND	0.0500	1	12/03/21	12/05/21	
Total Xylenes	ND	0.0250	1	12/03/21	12/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2149045
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/03/21	12/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2149043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/03/21	12/06/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/03/21	12/06/21	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/03/21	12/06/21	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2149042
Chloride	ND	20.0	1	12/03/21	12/03/21	



Sample Data

DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: Jicarilla 429 #4 Confirmation Sampling
Project Number: 17035-0289
Project Manager: Felipe Aragon

Reported:
12/7/2021 2:02:35PM

CS-3

E112012-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2149045
Benzene	ND	0.0250	1	12/03/21	12/05/21	
Ethylbenzene	ND	0.0250	1	12/03/21	12/05/21	
Toluene	ND	0.0250	1	12/03/21	12/05/21	
o-Xylene	ND	0.0250	1	12/03/21	12/05/21	
p,m-Xylene	ND	0.0500	1	12/03/21	12/05/21	
Total Xylenes	ND	0.0250	1	12/03/21	12/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2149045
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/03/21	12/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.4 %	70-130	12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2149043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/03/21	12/06/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/03/21	12/06/21	
<i>Surrogate: n-Nonane</i>		110 %	50-200	12/03/21	12/06/21	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2149042
Chloride	ND	20.0	1	12/03/21	12/03/21	



Sample Data

DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: Jicarilla 429 #4 Confirmation Sampling
Project Number: 17035-0289
Project Manager: Felipe Aragon

Reported:
12/7/2021 2:02:35PM

CS-4+1.5'

E112012-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2149045
Benzene	ND	0.0250	1	12/03/21	12/05/21	
Ethylbenzene	ND	0.0250	1	12/03/21	12/05/21	
Toluene	ND	0.0250	1	12/03/21	12/05/21	
o-Xylene	ND	0.0250	1	12/03/21	12/05/21	
p,m-Xylene	ND	0.0500	1	12/03/21	12/05/21	
Total Xylenes	ND	0.0250	1	12/03/21	12/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2149045
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/03/21	12/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2149043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/03/21	12/06/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/03/21	12/06/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		12/03/21	12/06/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2149042
Chloride	ND	20.0	1	12/03/21	12/03/21	



Sample Data

DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: Jicarilla 429 #4 Confirmation Sampling
Project Number: 17035-0289
Project Manager: Felipe Aragon

Reported:
12/7/2021 2:02:35PM

CS-5

E112012-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Benzene	ND	0.0250	1	12/03/21	12/05/21	
Ethylbenzene	ND	0.0250	1	12/03/21	12/05/21	
Toluene	ND	0.0250	1	12/03/21	12/05/21	
o-Xylene	ND	0.0250	1	12/03/21	12/05/21	
p,m-Xylene	ND	0.0500	1	12/03/21	12/05/21	
Total Xylenes	ND	0.0250	1	12/03/21	12/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/03/21	12/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.2 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2149043	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/03/21	12/06/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/03/21	12/06/21	
<i>Surrogate: n-Nonane</i>	105 %	50-200		12/03/21	12/06/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2149042	
Chloride	ND	20.0	1	12/03/21	12/03/21	



Sample Data

DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: Jicarilla 429 #4 Confirmation Sampling
Project Number: 17035-0289
Project Manager: Felipe Aragon

Reported:
12/7/2021 2:02:35PM

CS-6+8"

E112012-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Benzene	ND	0.0250	1	12/03/21	12/05/21	
Ethylbenzene	ND	0.0250	1	12/03/21	12/05/21	
Toluene	ND	0.0250	1	12/03/21	12/05/21	
o-Xylene	ND	0.0250	1	12/03/21	12/05/21	
p,m-Xylene	ND	0.0500	1	12/03/21	12/05/21	
Total Xylenes	ND	0.0250	1	12/03/21	12/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.3 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/03/21	12/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.2 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2149043	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/03/21	12/06/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/03/21	12/06/21	
<i>Surrogate: n-Nonane</i>	101 %	50-200		12/03/21	12/06/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2149042	
Chloride	ND	20.0	1	12/03/21	12/03/21	



Sample Data

DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: Jicarilla 429 #4 Confirmation Sampling
Project Number: 17035-0289
Project Manager: Felipe Aragon

Reported:
12/7/2021 2:02:35PM

CS-7

E112012-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Benzene	ND	0.0250	1	12/03/21	12/05/21	
Ethylbenzene	ND	0.0250	1	12/03/21	12/05/21	
Toluene	ND	0.0250	1	12/03/21	12/05/21	
o-Xylene	ND	0.0250	1	12/03/21	12/05/21	
p,m-Xylene	ND	0.0500	1	12/03/21	12/05/21	
Total Xylenes	ND	0.0250	1	12/03/21	12/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>95.6 %</i>	<i>70-130</i>		<i>12/03/21</i>	<i>12/05/21</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/03/21	12/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>96.9 %</i>	<i>70-130</i>		<i>12/03/21</i>	<i>12/05/21</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2149043	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/03/21	12/06/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/03/21	12/06/21	
<i>Surrogate: n-Nonane</i>	<i>101 %</i>	<i>50-200</i>		<i>12/03/21</i>	<i>12/06/21</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2149042	
Chloride	ND	20.0	1	12/03/21	12/03/21	



Sample Data

DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: Jicarilla 429 #4 Confirmation Sampling
Project Number: 17035-0289
Project Manager: Felipe Aragon

Reported:
12/7/2021 2:02:35PM

CS-8

E112012-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Benzene	ND	0.0250	1	12/03/21	12/05/21	
Ethylbenzene	ND	0.0250	1	12/03/21	12/05/21	
Toluene	ND	0.0250	1	12/03/21	12/05/21	
o-Xylene	ND	0.0250	1	12/03/21	12/05/21	
p,m-Xylene	ND	0.0500	1	12/03/21	12/05/21	
Total Xylenes	ND	0.0250	1	12/03/21	12/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2149045	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/03/21	12/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.2 %	70-130		12/03/21	12/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2149043	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/03/21	12/06/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/03/21	12/06/21	
<i>Surrogate: n-Nonane</i>	107 %	50-200		12/03/21	12/06/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2149042	
Chloride	ND	20.0	1	12/03/21	12/03/21	



QC Summary Data

DJR Operating, LLC	Project Name:	Jicarilla 429 #4 Confirmation Sampling	Reported:
1 Rd 3263	Project Number:	17035-0289	
Aztec NM, 87410	Project Manager:	Felipe Aragon	12/7/2021 2:02:35PM

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 (2149045-BLK1)

Prepared: 12/03/21 Analyzed: 12/05/21

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	7.59		8.00		94.9	70-130			

LCS (2149045-BS1)

Prepared: 12/03/21 Analyzed: 12/05/21

Benzene	4.89	0.0250	5.00		97.8	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.4	70-130			
Toluene	4.99	0.0250	5.00		99.7	70-130			
o-Xylene	4.92	0.0250	5.00		98.4	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.1	70-130			

Matrix Spike (2149045-MS1)

Source: E112012-01

Prepared: 12/03/21 Analyzed: 12/05/21

Benzene	4.88	0.0250	5.00	ND	97.5	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133			
Toluene	4.95	0.0250	5.00	ND	99.0	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.7	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			

Matrix Spike Dup (2149045-MSD1)

Source: E112012-01

Prepared: 12/03/21 Analyzed: 12/05/21

Benzene	4.80	0.0250	5.00	ND	96.0	54-133	1.56	20	
Ethylbenzene	4.72	0.0250	5.00	ND	94.5	61-133	1.09	20	
Toluene	4.88	0.0250	5.00	ND	97.7	61-130	1.38	20	
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131	1.03	20	
p,m-Xylene	9.59	0.0500	10.0	ND	95.9	63-131	1.15	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131	1.11	20	
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			



QC Summary Data

DJR Operating, LLC	Project Name:	Jicarilla 429 #4 Confirmation Sampling	Reported:
1 Rd 3263	Project Number:	17035-0289	
Aztec NM, 87410	Project Manager:	Felipe Aragon	12/7/2021 2:02:35PM

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 (2149045-BLK1)

Prepared: 12/03/21 Analyzed: 12/05/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

LCS (2149045-BS2)

Prepared: 12/03/21 Analyzed: 12/05/21

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0		115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike (2149045-MS2)

Source: E112012-01

Prepared: 12/03/21 Analyzed: 12/05/21

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2149045-MSD2)

Source: E112012-01

Prepared: 12/03/21 Analyzed: 12/05/21

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130	2.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			



QC Summary Data

DJR Operating, LLC	Project Name:	Jicarilla 429 #4 Confirmation Sampling	Reported:
1 Rd 3263	Project Number:	17035-0289	
Aztec NM, 87410	Project Manager:	Felipe Aragon	12/7/2021 2:02:35PM

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 (2149043-BLK1)

Prepared: 12/03/21 Analyzed: 12/03/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.7		50.0		105	50-200			

LCS (2149043-BS1)

Prepared: 12/03/21 Analyzed: 12/03/21

Diesel Range Organics (C10-C28)	534	25.0	500		107	38-132			
Surrogate: <i>n</i> -Nonane	40.8		50.0		81.6	50-200			

Matrix Spike (2149043-MS1)

Source: E112010-06

Prepared: 12/03/21 Analyzed: 12/03/21

Diesel Range Organics (C10-C28)	537	25.0	500	ND	107	38-132			
Surrogate: <i>n</i> -Nonane	35.6		50.0		71.2	50-200			

Matrix Spike Dup (2149043-MSD1)

Source: E112010-06

Prepared: 12/03/21 Analyzed: 12/03/21

Diesel Range Organics (C10-C28)	514	25.0	500	ND	103	38-132	4.36	20	
Surrogate: <i>n</i> -Nonane	51.1		50.0		102	50-200			



QC Summary Data

DJR Operating, LLC	Project Name:	Jicarilla 429 #4 Confirmation Sampling	Reported:
1 Rd 3263	Project Number:	17035-0289	
Aztec NM, 87410	Project Manager:	Felipe Aragon	12/7/2021 2:02:35PM

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 (2149042-BLK1)					Prepared: 12/03/21 Analyzed: 12/03/21				
Chloride	ND	20.0							
LCS (2149042-BS1)					Prepared: 12/03/21 Analyzed: 12/03/21				
Chloride	246	20.0	250		98.4	90-110			
LCS Dup (2149042-BSD1)					Prepared: 12/03/21 Analyzed: 12/03/21				
Chloride	247	20.0	250		98.6	90-110	0.199	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

DJR Operating, LLC	Project Name:	Jicarilla 429 #4 Confirmation Sampling	
1 Rd 3263	Project Number:	17035-0289	Reported:
Aztec NM, 87410	Project Manager:	Felipe Aragon	12/07/21 14:02

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Client: DJR Operating LLC				Bill To Attention: _____ Address: _____ City, State, Zip _____ Phone: _____ Email: _____		Lab Use Only				TAT				EPA Program				
Project: Jicarilla 429 #4 Confirmation Sampling						Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Felipe Aragon						E 112012			17035-0289			X						
Address: _____						Analysis and Method											RCRA	
City, State, Zip _____																State		
Phone: _____														NM	CO	UT	AZ	TX
Email: Faragon Tknight Gcrabtree Bhall Igarcia														X				
KSanchez Dcarter, GBenally														Remarks				
Report due by: _____																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	8260	8270	8015 (DRO/GRO/ORO)	8021	Chlorides								
13:30	12/2/2021	S	2	CS-1	1			X	X	X						24 oz jars on ice		
14:37	12/2/2021	S	2	CS-2	2			X	X	X						24 oz jars on ice		
14:38	12/2/2021	S	2	CS-3	3			X	X	X						24 oz jars on ice		
15:50	12/2/2021	S	2	CS-4+1.5'	4			X	X	X						24 oz jars on ice		
14:40	12/2/2021	S	2	CS-5	5			X	X	X						24 oz jars on ice		
15:21	12/2/2021	S	2	CS6+8"	6			X	X	X						24 oz jars on ice		
14:43	12/2/2021	S	2	CS-7	7			X	X	X						24 oz jars on ice		
16:01	12/2/2021	S	2	CS-8	8			X	X	X						24 oz jars on ice		

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: B. Han

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>
<u>B. Han</u>	<u>12/3/2021</u>	<u>6:45</u>	<u>[Signature]</u>	<u>12/3/21</u>	<u>10:50</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.

Envirotech Analytical Laboratory

Printed: 12/3/2021 10:56:29AM

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:	DJR Operating, LLC	Date Received:	12/03/21 10:50	Work Order ID:	E112012
Phone:	(979) 820-0551	Date Logged In:	12/03/21 10:52	Logged In By:	Alexa Michaels
Email:	faragon@envirotech-inc.com	Due Date:	12/06/21 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? Yes
5. Were all samples received within holding time? Yes

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

Carrier: Brittany Hall**Comments/Resolution****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.

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 124773

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 124773
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Incident on tribal land.	5/19/2023