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	nAPP2108334273
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Hilcorp Energy Company	OGRID 372171
Contact Name Jennifer Deal	Contact Telephone 505-801-6517
Contact email jdeal@hilcorp.com	Incident # nAPP2108334273
Contact mailing address 382 Road 3100, Aztec NM 87410	

Location of Release Source

Latitude 36.92657 Longitude -107.68543
(NAD 83 in decimal degrees to 5 decimal places)

Site Name San Juan 10-2 Water line (Near SJ 32-8 242A)	Site Type Pipeline
Date Release Discovered 3/12/2021 @ 11:30am	API#

Unit Letter	Section	Township	Range	County
E	4	31N	08W	San Juan

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name: Tommy Bolack Trust*)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 21	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A release of ~21bbls of produced water was released due to internal corrosion on the pipeline. Operations shut in waterline and turned in one call. Water was pooled approximately 20' x 20' x 4" deep. Release remained on pipeline right of way. Hilcorp will notify OCD 48 hrs prior to confirmation sampling.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2108334273
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ 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: __Jennifer Deal_____ Title: _____Environmental Specialist_____

Signature: _____ Jennifer Deal _____ Date: 3/24/2021_____

email: ___jdeal@hilcorp.com_____ Telephone: ____505-801-6517_____

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2108334273
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?	<50 (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2108334273
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: ___Mitch Killough_____ Title: ____Environmental Specialist_____

Signature:_____ _____ Date: __06/10/2021_____

email: ___mkillough@hilcorp.com_____ Telephone: ___(713) 757-5247_____

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2108334273
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Mitch Killough Title: Environmental Specialist

Signature: Date: 6/10/2021

email: mkillough@hilcorp.com Telephone: (713) 757-5247

OCD Only

Received by: Date: 06/10/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 01/05/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist

Executive Summary

On March 12, 2021, Hilcorp Energy Company (Hilcorp) had a release of 21 bbls of produced water at the San Juan 10-2 Water Line (located approximately 1,210 ft southeast of the San Juan 32-8 Unit 242A wellpad). The release was due to the 4-inch steel water pipeline developing internal corrosion and causing the release of produced water within the right-of-way (ROW). The released fluids escaped the pipeline and pooled into a low-lying surface area immediately adjacent to the pipeline location (staying within the pipeline ROW) measuring 40 ft x 10 ft. No fluids were recovered at the time of the incident. Operations isolated, blew down, and locked out/tagged out the pipeline. As a result, no excavations occurred following the release.

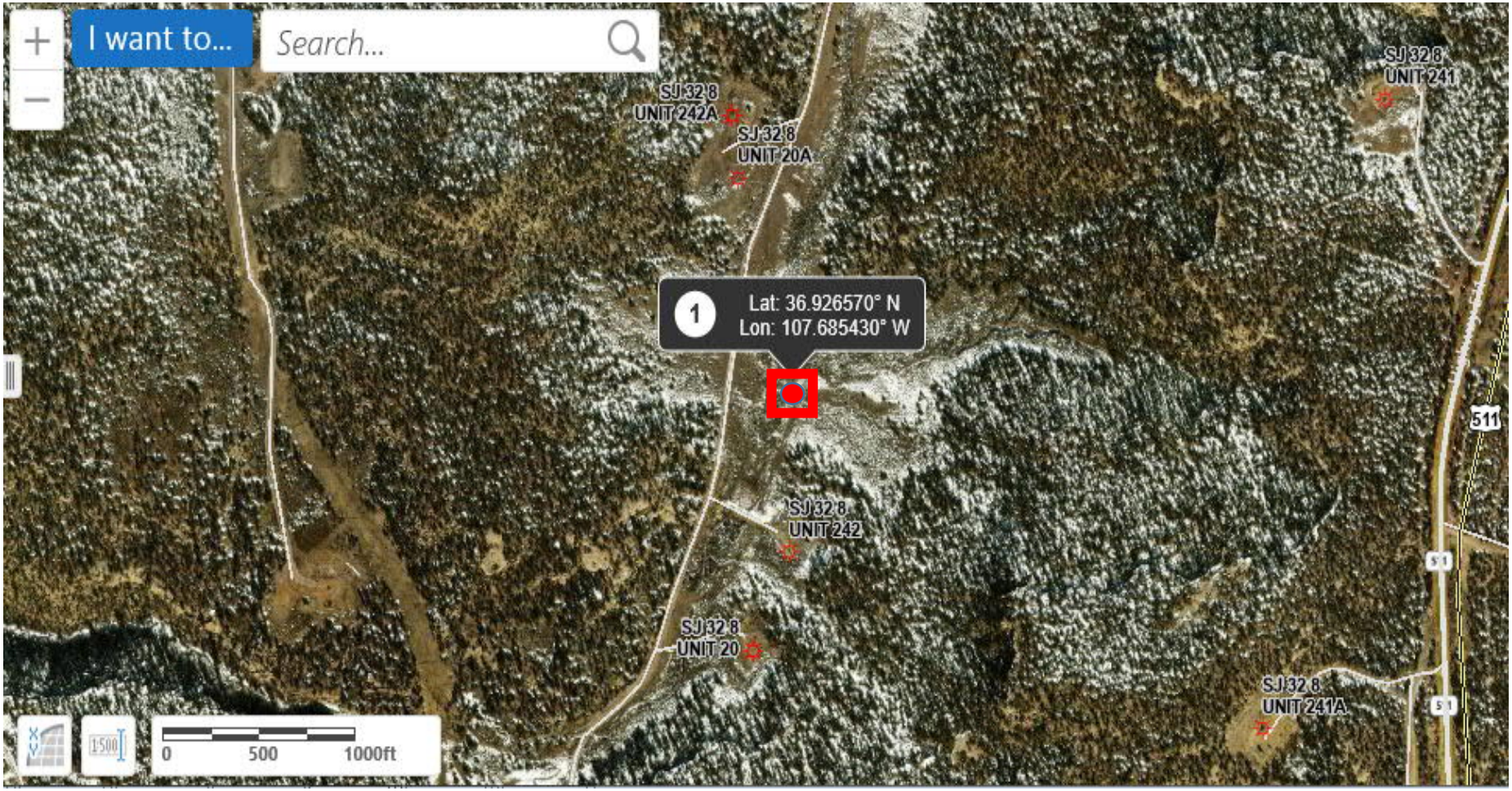
Confirmation sampling was scheduled for Wednesday, May 12th at 9 am in accordance with NMAC 19.15.29.12.D. However, no representation from NMOCD was present at the time of the scheduled sampling. Hilcorp's Bobby Spearman proceeded with the confirmation sampling event.

This site is ranked $\leq$50 ft per NMAC 19.15.29.12.E. One grab sample was taken at the source and two (2) five-point composite samples were collected from within the pooled area adjacent to the pipeline. All three soil samples came back in compliance with clean up action levels.

Initial Release Photograph

Scaled Map

N

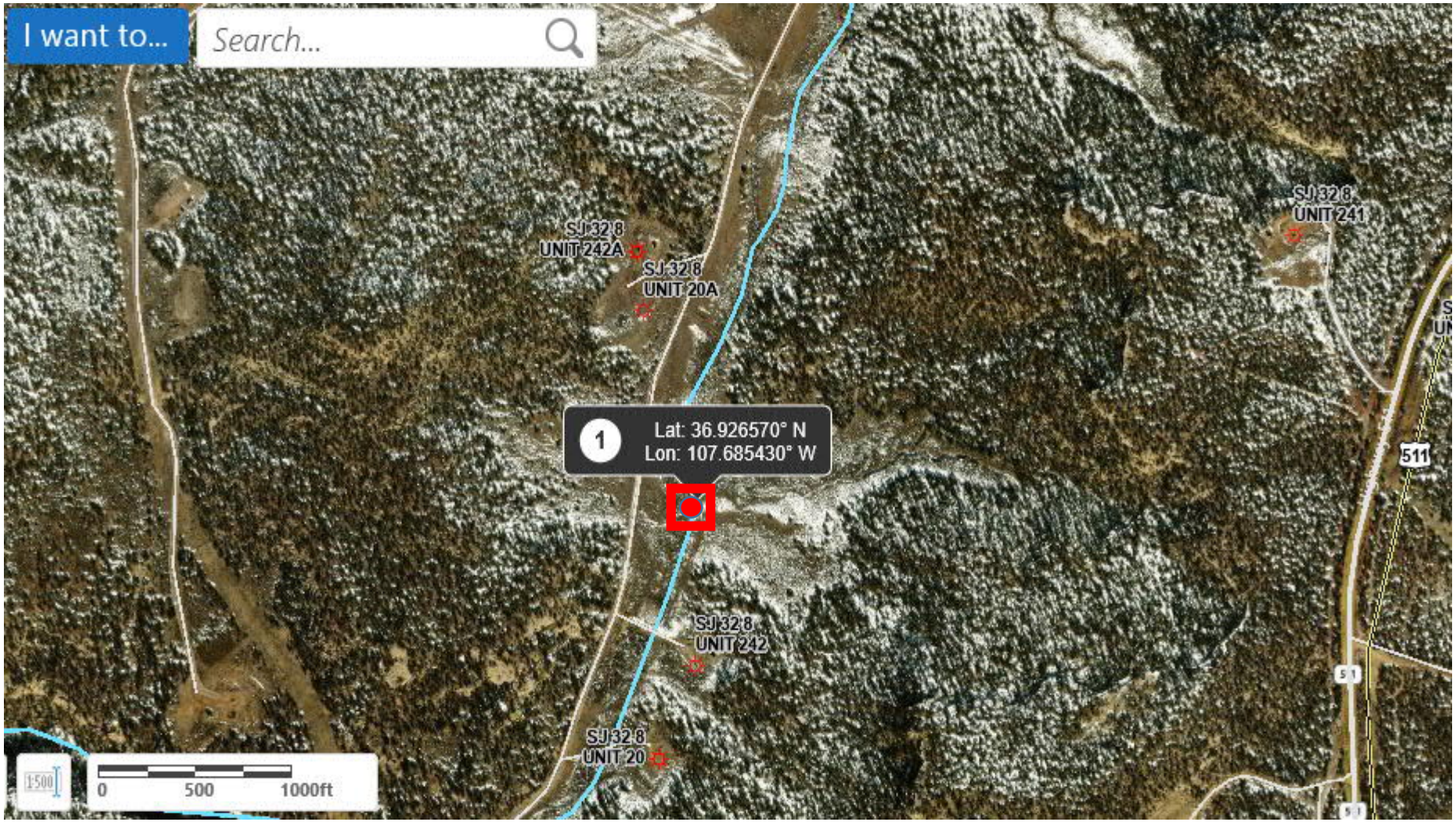


Note: San Juan 10-2 Water Line release location represented by the red circle shown in image above. Note the nearby well locations.

Scaled Map – Close-up

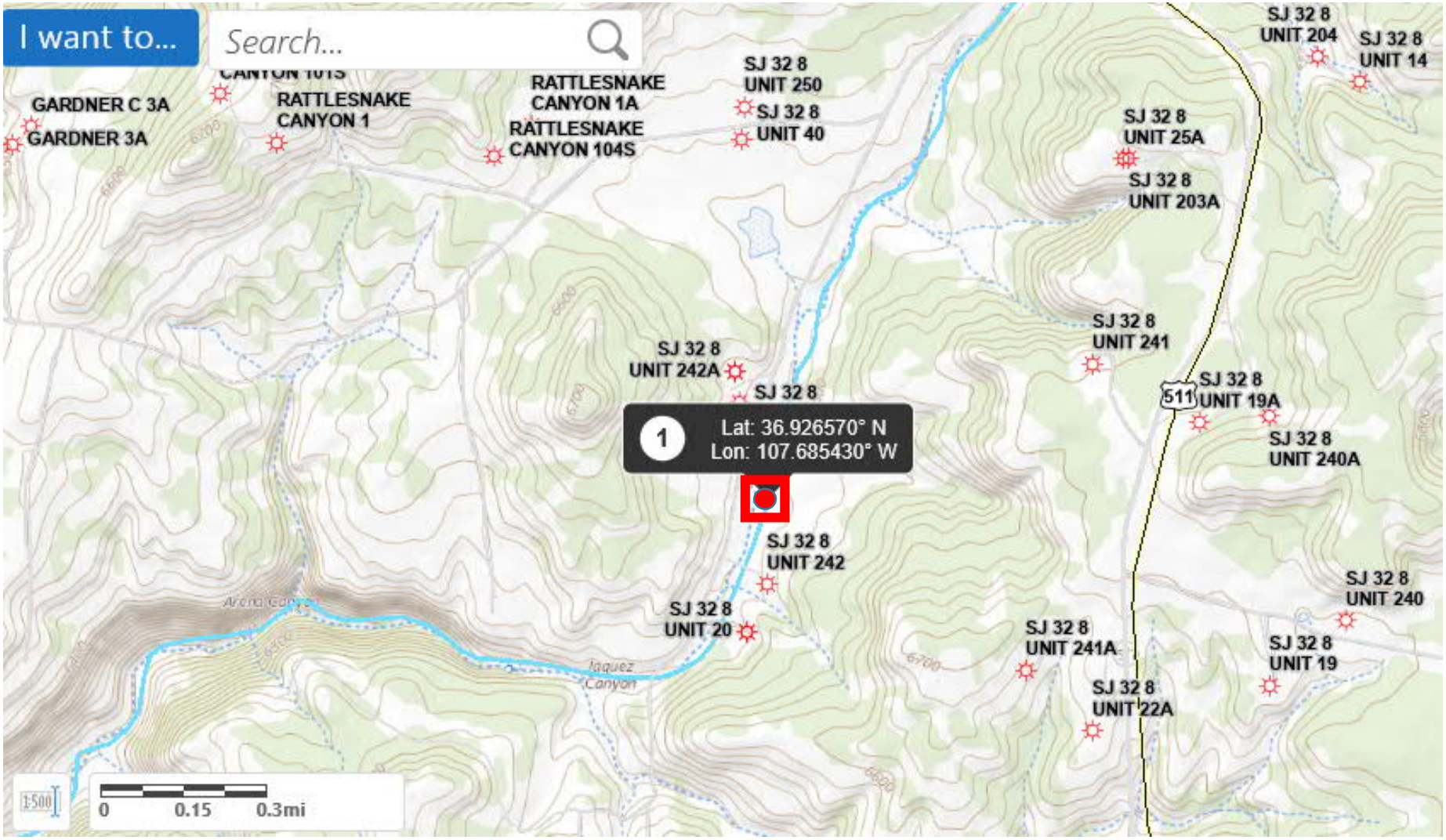
Note: Surface extent of release above measured approximately 40 ft x 10 ft in the field. Denoted by the oval shape in the image above.

Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



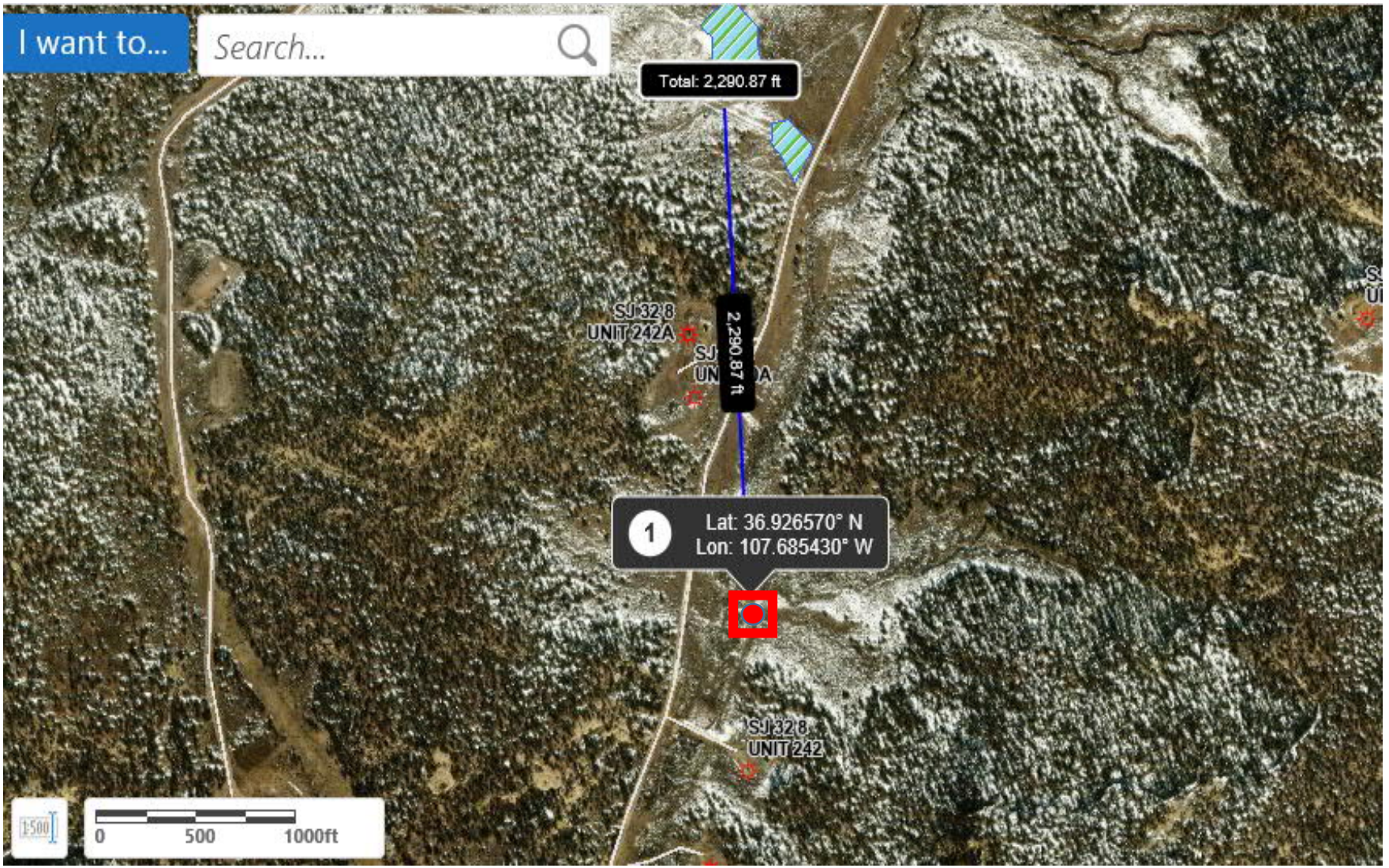
Note: Release point is shown to be in close proximity to a delineated water feature based on the image. However, at the time of the release and during the closure sampling, no body of water or intermittent water features were observed. This would be considered an ephemeral feature.

Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



Note: Release point is shown to be in close proximity to a mapped water feature based on the topographic image. However, at the time of the release and during the closure sampling, no body of water or intermittent water features were observed. This would be considered an ephemeral feature.

Distance to mapped wetlands



Note: The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland.

Depth to groundwater

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(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 Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 04103 POD1		SJAR	SJ	4	1	3	08	31N	08W	240607	4088952	26		

Average Depth to Water: --
Minimum Depth: --
Maximum Depth: --

Record Count: 1

PLSS Search:

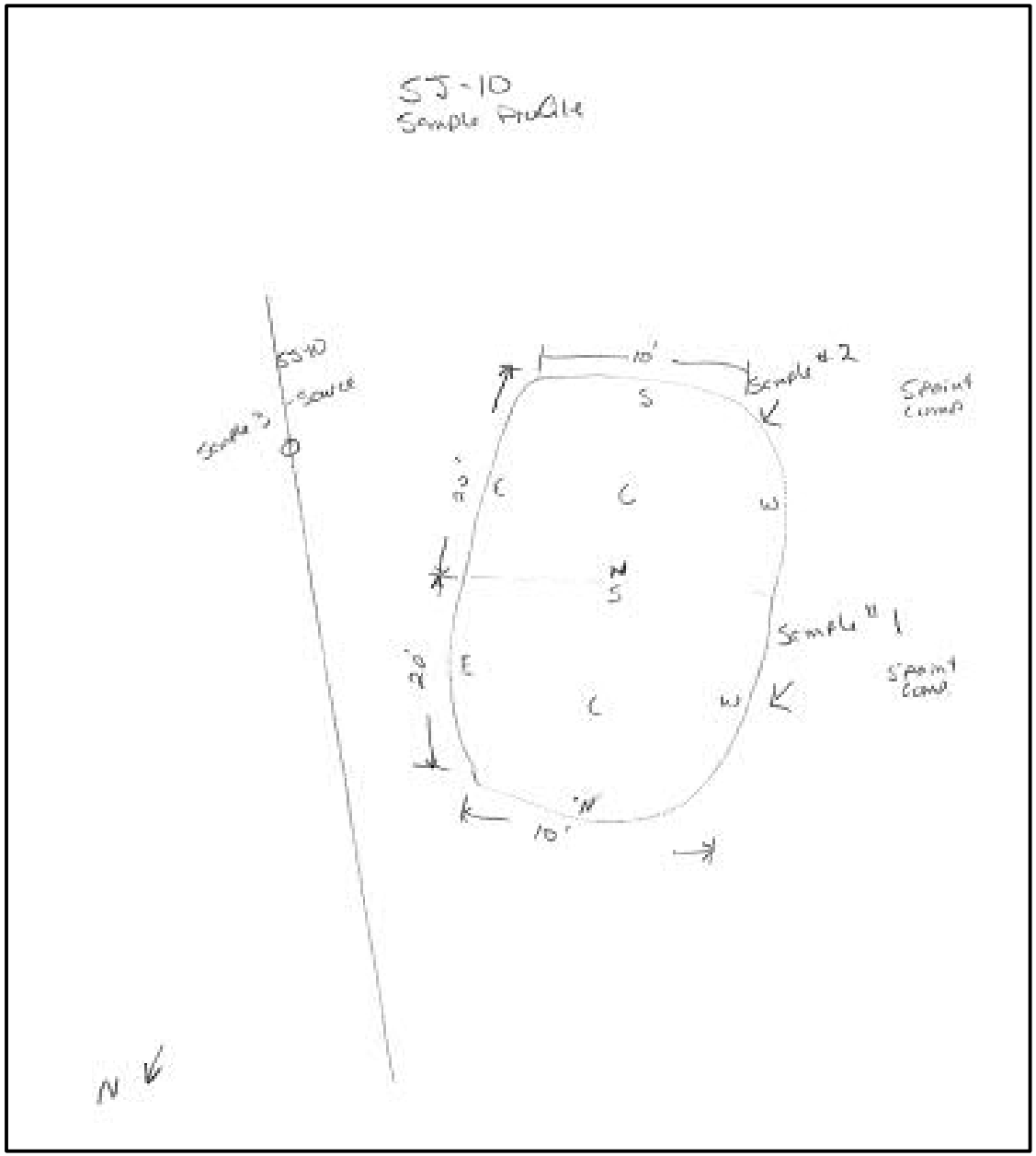
Section(s): 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 **Township:** 31N **Range:** 08W

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.

6/10/21 1:24 AM WATER COLUMN/ AVERAGE DEPTH TO WATER

Note: Depth to groundwater < 50ft based on water depth of well within surrounding 10 sections of the release point.

Sample field notes



Sample locations

Sample No. 1
North Composite Point

Sample No. 1
West Composite Point

Sample locations

Sample No. 1
South Composite Point

Sample No. 1
East Composite Point

Sample locations

Sample No. 1
Central Composite Point

Sample No. 2
North Composite Point

Sample locations

Sample No. 2
West Composite Point

Sample No. 2
South Composite Point

Sample locations

Sample No. 2
East Composite Point

Sample No. 2
Central Composite Point

Sample locations

Sample No. 3
Source Location

Data table of soil contaminant concentration data

Soil Sample Identification	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO+DRO (mg/kg)	TPH (mg/kg)
2105554-001	5/12/2021	<0.025	<0.049	<0.049	<0.099	<0.222	400	<4.9	<9.6	<48	<14.5	<62.5
2105554-002	5/12/2021	<0.025	<0.050	<0.050	<0.10	<0.225	330	<5.0	10	<49	<15.0	<64
2105554-003	5/12/2021	<0.023	<0.047	<0.047	<0.093	<0.21	180	<4.7	<9.6	<48	<14.3	<62.3
NMOCD Table 1 Closure Criteria		**10**	**NE**	**NE**	**NE**	**50**	**600**	**NE**	**NE**	**NE**	**NE**	**100**

Note: Confirmation samples were collected on 5/12/2021 by Hilcorp personnel. All samples came back below action levels.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

May 19, 2021

Mitch Killough
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX

RE: SJ 10 2 Pipeline OrderNo.: 2105554

Dear Mitch Killough:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/13/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2105554**
Date Reported: **5/19/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: SJ 10-2 Pipeline #1
Project: SJ 10 2 Pipeline
Collection Date: 5/12/2021 9:50:00 AM
Lab ID: 2105554-001 **Matrix:** SOIL
Received Date: 5/13/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/15/2021 4:53:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/15/2021 4:53:27 PM
Surr: DNOP	129	70-130		%Rec	1	5/15/2021 4:53:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/17/2021 5:00:31 PM
Surr: BFB	90.7	70-130		%Rec	1	5/17/2021 5:00:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	5/17/2021 5:00:31 PM
Toluene	ND	0.049		mg/Kg	1	5/17/2021 5:00:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/17/2021 5:00:31 PM
Xylenes, Total	ND	0.099		mg/Kg	1	5/17/2021 5:00:31 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/17/2021 5:00:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	400	59		mg/Kg	20	5/17/2021 3:14:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2105554**
Date Reported: **5/19/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: SJ 10-2 Pipeline #2
Project: SJ 10 2 Pipeline
Collection Date: 5/12/2021 10:20:00 AM
Lab ID: 2105554-002 **Matrix:** SOIL
Received Date: 5/13/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	10	9.9		mg/Kg	1	5/15/2021 5:03:22 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/15/2021 5:03:22 PM
Surr: DNOP	102	70-130		%Rec	1	5/15/2021 5:03:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/17/2021 5:23:55 PM
Surr: BFB	92.2	70-130		%Rec	1	5/17/2021 5:23:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	5/17/2021 5:23:55 PM
Toluene	ND	0.050		mg/Kg	1	5/17/2021 5:23:55 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/17/2021 5:23:55 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/17/2021 5:23:55 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/17/2021 5:23:55 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	330	59		mg/Kg	20	5/17/2021 3:26:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2105554**
Date Reported: **5/19/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: SJ 10-2 Pipeline #3 (Source)
Project: SJ 10 2 Pipeline
Collection Date: 5/12/2021 10:05:00 AM
Lab ID: 2105554-003 **Matrix:** SOIL
Received Date: 5/13/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/15/2021 5:13:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/15/2021 5:13:16 PM
Surr: DNOP	95.2	70-130		%Rec	1	5/15/2021 5:13:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/17/2021 5:47:20 PM
Surr: BFB	94.0	70-130		%Rec	1	5/17/2021 5:47:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	5/17/2021 5:47:20 PM
Toluene	ND	0.047		mg/Kg	1	5/17/2021 5:47:20 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/17/2021 5:47:20 PM
Xylenes, Total	ND	0.093		mg/Kg	1	5/17/2021 5:47:20 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/17/2021 5:47:20 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	180	60		mg/Kg	20	5/17/2021 4:03:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105554**

19-May-21

Client: HILCORP ENERGY

Project: SJ 10 2 Pipeline

Sample ID: **MB-60073**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60073**	RunNo: **77444**							
Prep Date: **5/17/2021**	Analysis Date: **5/17/2021**	SeqNo: **2748899**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60073**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60073**	RunNo: **77444**							
Prep Date: **5/17/2021**	Analysis Date: **5/17/2021**	SeqNo: **2748900**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105554**

19-May-21

Client: HILCORP ENERGY

Project: SJ 10 2 Pipeline

Sample ID: **LCS-60046** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **60046** RunNo: **77424**

Prep Date: **5/14/2021** Analysis Date: **5/15/2021** SeqNo: **2747879** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.1	68.9	141			
Surr: DNOP	3.8		5.000		75.1	70	130			

Sample ID: **MB-60046** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **60046** RunNo: **77424**

Prep Date: **5/14/2021** Analysis Date: **5/15/2021** SeqNo: **2747881** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105554**

19-May-21

Client: HILCORP ENERGY

Project: SJ 10 2 Pipeline

Sample ID: **mb-60012**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **60012**	RunNo: **77448**
Prep Date: **5/13/2021**	Analysis Date: **5/17/2021**	SeqNo: **2748802** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.4	70	130			

Sample ID: **lcs-60012**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **60012**	RunNo: **77448**
Prep Date: **5/13/2021**	Analysis Date: **5/17/2021**	SeqNo: **2748803** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	78.6	131			
Surr: BFB	1000		1000		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105554**

19-May-21

Client: HILCORP ENERGY

Project: SJ 10 2 Pipeline

Sample ID: **mb-60012**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **60012**	RunNo: **77448**
Prep Date: **5/13/2021**	Analysis Date: **5/17/2021**	SeqNo: **2748837** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **LCS-60012**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **60012**	RunNo: **77448**
Prep Date: **5/13/2021**	Analysis Date: **5/17/2021**	SeqNo: **2748838** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.9	80	120			
Toluene	0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **HILCORP ENERGY** Work Order Number: **2105554** RcptNo: **1**

Received By: **Juan Rojas** **5/13/2021 7:10:00 AM**

Completed By: **Sean Livingston** **5/13/2021 8:17:23 AM**

Reviewed By: JR 5/13/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑ 10

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 5/13/21 (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good				

Chain-of-Custody Record

Client: Hilcorp Energy

Mailing Address: Farmington NM

Phone #: 505-320-3045

email or Fax#: JSpearman

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ ~~Standard~~ CD ☒ Rush 5 day TAT

Project Name: SJ 10-2 Pipeline

Project #:

Project Manager: Mitch Killough

Sampler: Bobby Spearman

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.7-0=1.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2105554	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5-12-21	0750	Soil	SJ 10-2 Pipeline #1	4oz	Cool	001	X	X					X			
5-12-21	1020	Soil	SJ 10-2 Pipeline #2	4oz	Cool	002	X	X					X			
5-12-21	1005	Soil	SJ 10-2 Pipeline #3 (6ft)	4oz	Cool	003	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5-12-21	11:55	RSpearman	Christine Walters		5/12/21	1155
5/12/21	1814	Christine Walters		courier	5/13/21	7:10

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Mitch Killough

From:	Mitch Killough
Sent:	Tuesday, May 4, 2021 9:43 AM
To:	Smith, Cory, EMNRD; Enviro, OCD, EMNRD
Cc:	Kurt Hoekstra; Cameron Garrett
Subject:	Closure Soil Sampling - San Juan 10-2 Water Line (Incident No. nAPP2108334273)

Good morning.

Hilcorp Energy Company (Hilcorp) is providing a 48-hour notification for closure soil sampling scheduled to occur at the San Juan 10-2 Water Line on Wednesday, May 12, 2021, beginning at 9:00am (MT). The initial C-141 was submitted to the NMOCD on 3/24/2021 and was assigned incident no. nAPP2108334273.

Please let me know if you have any questions.

Thanks.

Mitch Killough
Environmental Specialist
Hilcorp Energy Company
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Houston, TX 77002
713-757-5247 (office)
281-851-2338 (cell)
mkillough@hilcorp.com

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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 31325

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 31325
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	1/5/2022