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	nAPP2321580132
District RP	
Facility ID	
Application ID	

I Release Notification

Responsible Party

Responsible Party: Hilcorp Energy	OGRID: 372171
Contact Name: Samantha Grabert	Contact Telephone: 713-757-7116
Contact email: Samantha.grabert@hilcorp.com	Incident # *(assigned by OCD)* nAPP2321580132
Contact mailing address: 1111 Travis St. Houston, TX 77471	

Location of Release Source

Latitude: 36.81485 Longitude: -107.32128
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: San Juan 30-5 Unit 29M	Site Type: Well Site
Date Release Discovered: 7/19/2023	API# *(if applicable):* 30-039-26777

Unit Letter	Section	Township	Range	County
H	14	030N	005W	Rio Arriba

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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 0.84	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) 220	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Hilcorp operator discovered release due to corrosion in the flowline. The well was shut-in, and the flowline was isolated upon discovery of the release.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2321580132
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: Samantha Grabert Title: Environmental Specialist

Signature: Samantha Grabert Date: 8/4/2023

email: samantha.grabert@hilcorp.com Telephone: 713-757-7116

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2321580132
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2321580132
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: Samantha Grabert Title: Environmental Specialist

Signature: Samantha Grabert Date: 10/17/2023

email: samantha.grabert@hilcorp.com Telephone: 713-757-7116

OCD Only

Received by: Shelly Wells Date: 10/17/2023

Incident ID	nAPP2321580132
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: Samantha Grabert Title: Environmental Specialist

Signature: Samantha Grabert Date: 10/17/2023

email: samantha.grabert@hilcorp.com Telephone: 713-757-7116

OCD Only

Received by: Shelly Wells Date: 10/17/2023

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

Closure Approved by: Nelson Velez Date: 10/25/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

Executive Summary – Incident #: nAPP2321580132

A Hilcorp operator identified a wet spot at the San Juan 30-5 Unit 29M well site (API #: 30-039-26777) on 7/19/2023 due to a hole in the flowline caused by corrosion. The well was shut-in, and the flowline was isolated immediately upon discovery, stopping the leak. The line was then dug up and a new line was welded in to replace the corroded part of the flowline. Soil associated with digging up the flowline, along with any additional visibly impacted soil, was removed and transported off-site for disposal. A total of 220 MCF (@15.025 psi; 224 MCF @ 14.73 psi) of gas and 0.84 bbl of produced water was released from this event, and no fluids or gas were able to be recovered. There was no immediate danger to the public nor fire occurred because of this release.

Agency notification of closure sampling was given on September 28, 2023, and a final 5-point composite sample was collected on October 2, 2023. Please see ensuing pages for a copy of the closure sampling notification to agency and a full copy of the referenced lab results. As demonstrated in the Data Table of Soil Contaminant Concentrations herein, the analytical results from this sampling event were all below NMOCD closure criteria noted in NMAC 19.15.29 Table 1. As such, Hilcorp requests closure of the release in accordance with NMAC 19.15.29.12.D.

Scaled Site Map

Release Area

San Juan 30-5 Unit 29M Wellsite
API #: 30-039-26777

Lat: 36.814846
Long: -107.3212814

Depth to Groundwater Determination

BGT Siting Criteria for San Juan 30-5 Unit 29M; estimated depth to groundwater is approximately 282 feet (i.e. >100 ft).

Below Grade Tank (BGT) Siting Criteria and Compliance Demonstrations

Well Name: **San Juan 30-5 Unit 29M**

1. Depth to groundwater (should not be less than 25 feet):

   The nearest recorded well with available water-depth information is the SJ 30-5 Unit 258 with groundwater @ (250') as indicated in the Cathodic Groundbed Data sheet attached. The subject well is 32 higher in elevation making depth to groundwater @ 282'.

2. Distance to watercourse (should not be within 100 feet of a continuously flowing watercourse other significant watercourse or 200 feet from lakebed, sinkhole, or playa lake):

   Aerial map attached indicates that there are no lakebeds, sinkholes, playa lakes, or watercourses within 200 feet of the proposed Below Grade Tank.

3. Distance to buildings (should not be within 300 feet of any permanent buildings):

   Aerial map attached indicates that the Below Grade Tank will not be within 300 feet of any of these locations.

4. Distance to springs or wells (should not be within 200 feet of a private, domestic fresh water well or spring used by less than five (5) households or within 300 feet of any other fresh water well or spring):

   Aerial map attached indicates that the Below Grade Tank will not be within 300 feet of any recorded well or spring.

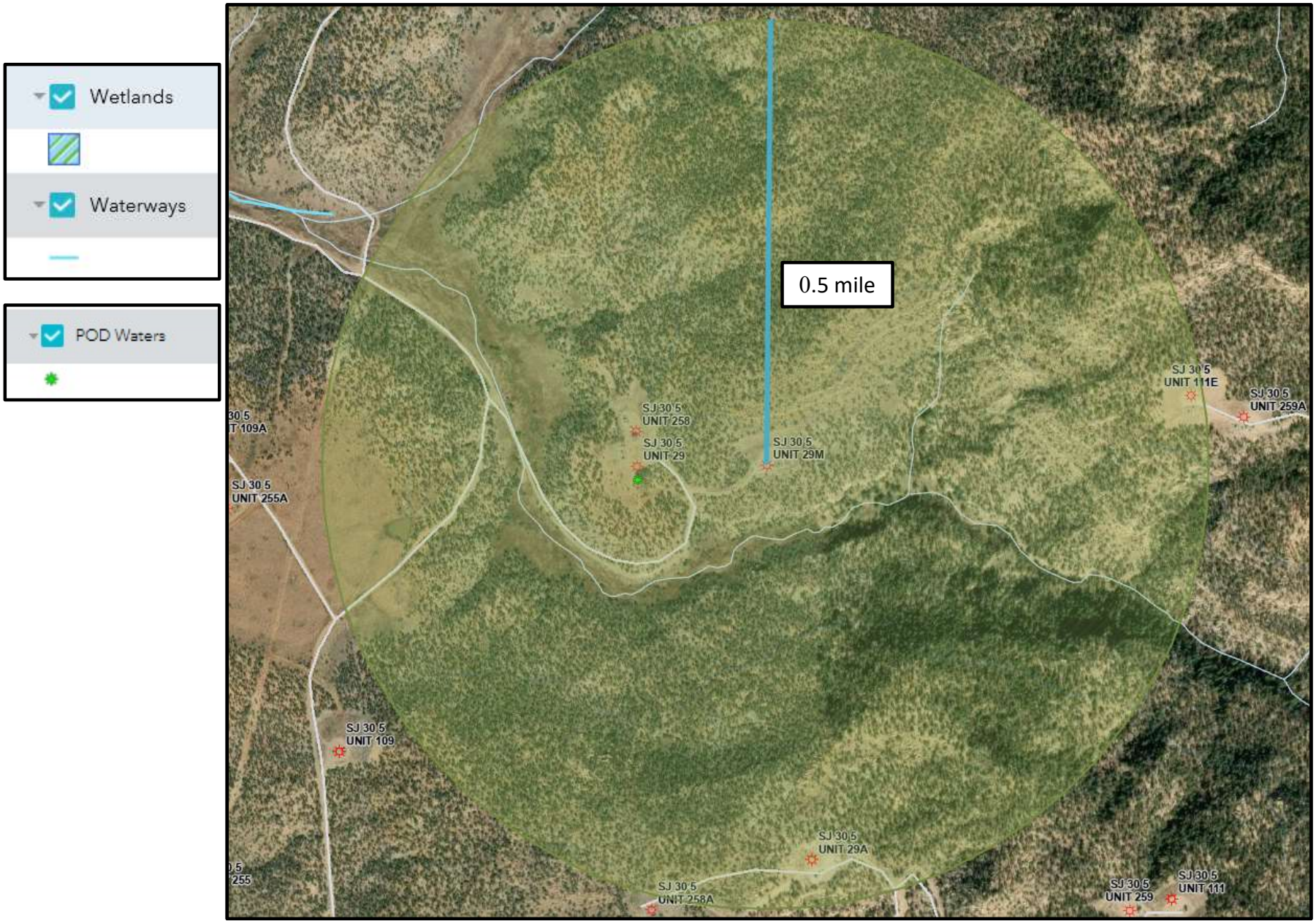
5. Distance to wetlands (should not be within 300 feet):

   During initial onsite the well pad was evaluated for Wetland proximity. No wetland was identified within 300 feet of the proposed well pad. See attached Aerial map.

6. Presence within unstable area (should not be within an unstable area):

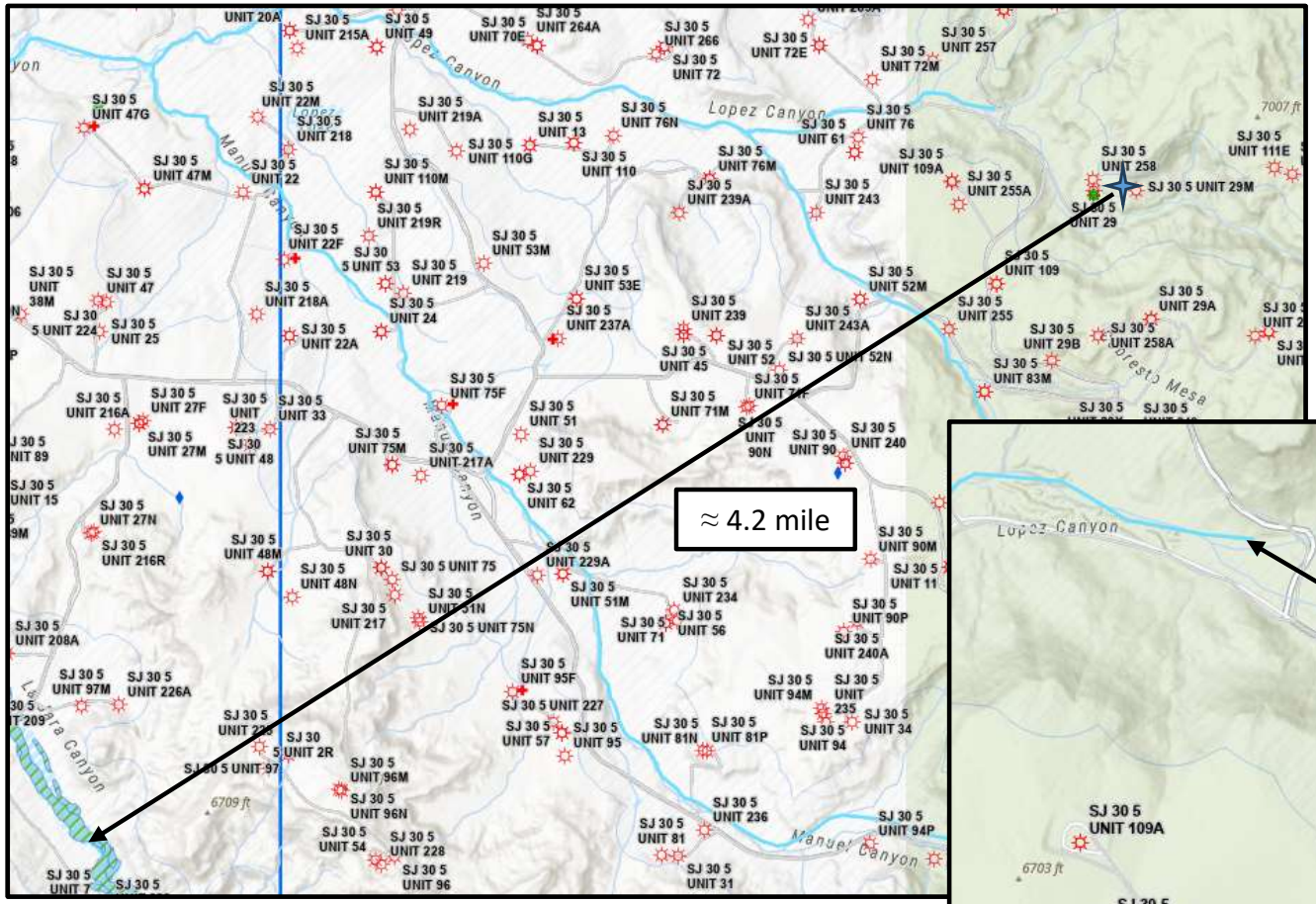
   The attached topographic map indicates that the location will not be within an unstable area.

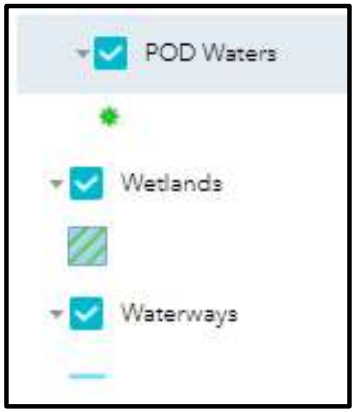
Determination of Water Sources and Significant Watercourses Within ½ mile of the Lateral Extent of the Release

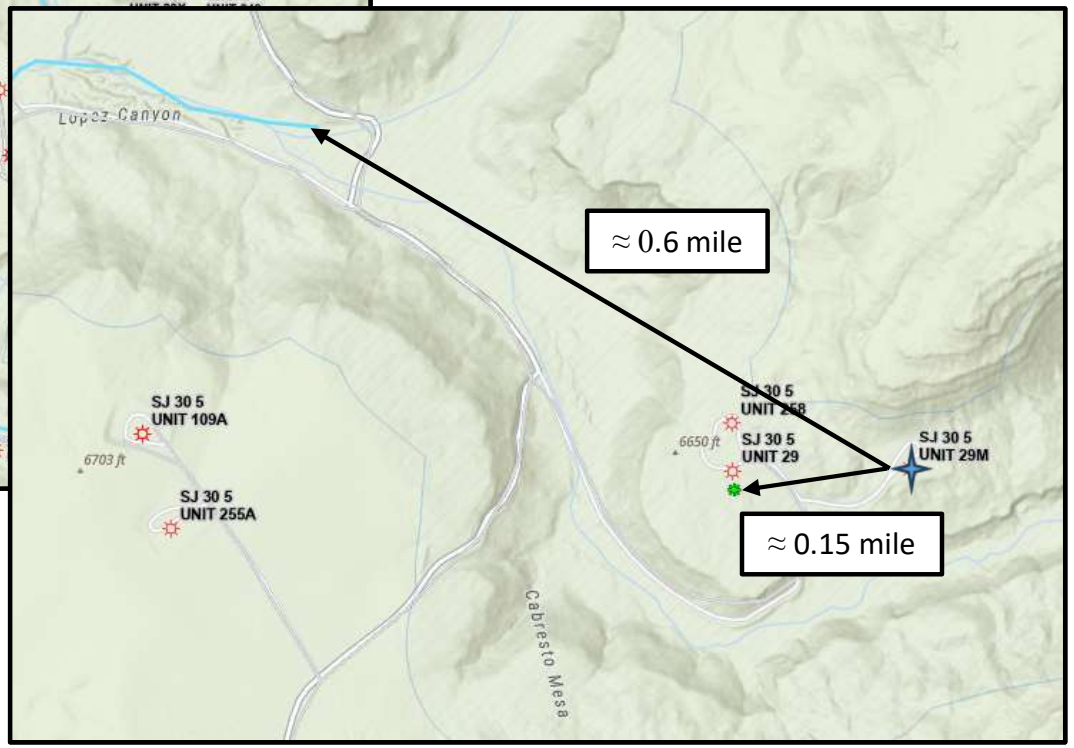


Note 1: Release point is not within 300 ft of a continuously flowing watercourse or other significant water course.
Note 2: The lateral extents of the release point are not within 300 feet of a mapped wetland.

NMAC 19.15.29 Siting Criteria for Closure Standards







Facility is **not** shown to be within:

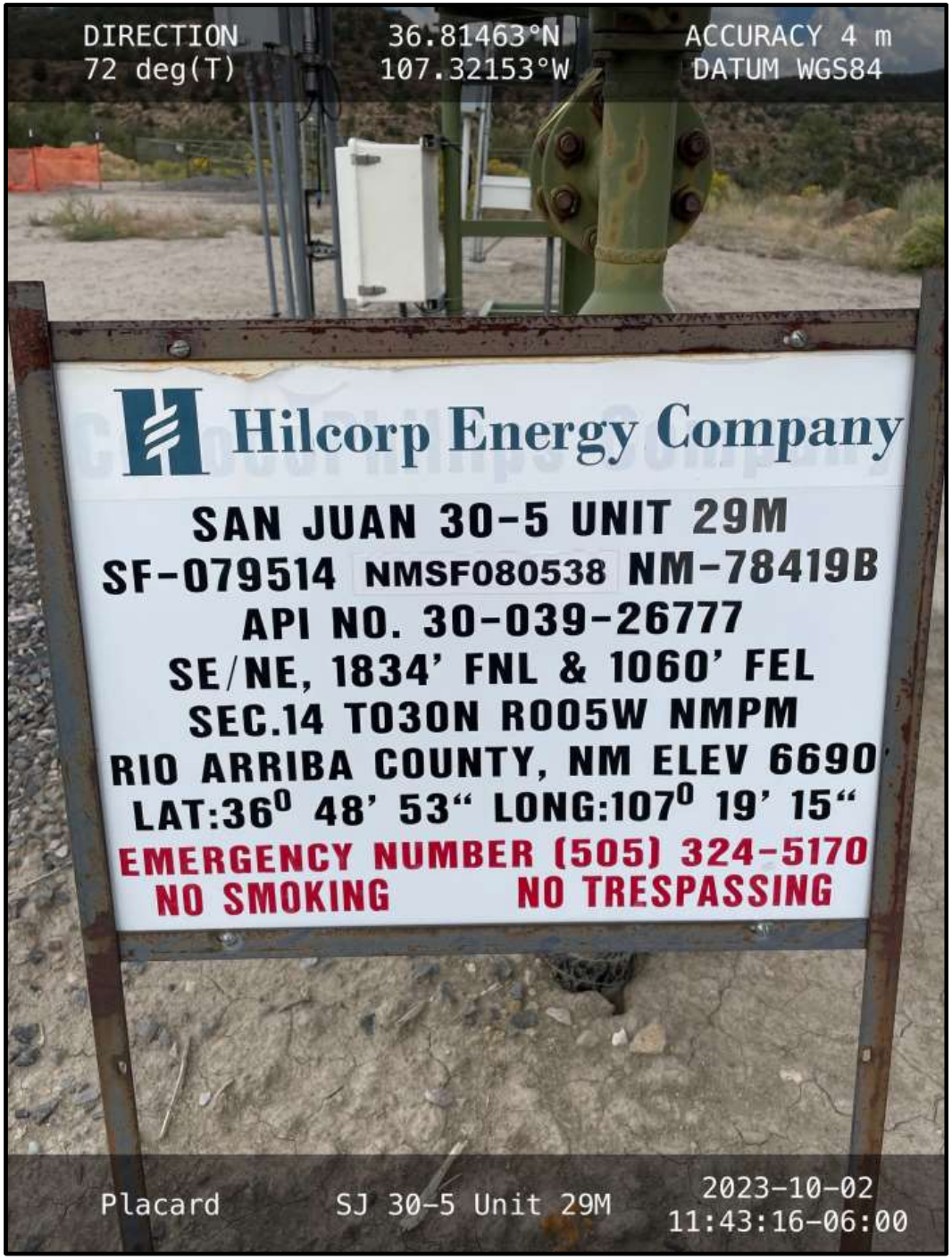
- 300 ft of any continuously flowing watercourse or any other significant water course.
- 200 feet of any lakebed, sinkhole or playa lake
- 300 feet of any occupied permanent residence
- 500 feet of a spring or private, domestic fresh water well.
- 1000 feet of any fresh water well
- 300 feet of a wetland
- Incorporated municipal boundaries
- Overlying a subsurface mine
- An unstable area
- A 100-year floodplain

Topographic Map

Initial Field Photos

Initial Field Photos

Field Sampling Photo



Field Sampling Photo & Location

Data Table of Soil Contaminant Concentrations

Sample Name	Sample Collection Date	San Juan 30-5 Unit 29M Laboratory Results										
		Chloride (mg/kg)	TPH as DRO (mg/kg)	TPH as GRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	TPH as GRO + DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylene (mg/kg)	Total BTEX (mg/kg)
19.15.29 Table 1 Closure Criteria		**20,000**	**-**	**-**	**-**	**2,500**	**1,000**	**10**	**-**	**-**	**-**	**50**
S-1 (Bottom Comp 6')	10/2/2023	87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Not detected

***Note:** All analytical results are below the NMAC 19.15.29 Table 1 closure criteria.
See ensuing pages for a full copy of the referenced lab results.

Samantha Grabert

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Thursday, September 28, 2023 2:10 PM
To: Samantha Grabert; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Cc: Brandon Sinclair; Miller, Jon -FS
Subject: RE: [EXTERNAL] Closure Sampling Notification - San Juan 30-5 Unit 29M (Incident #: nAPP2321580132)

NAPP2321580132

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Samantha Grabert <Samantha.Grabert@hilcorp.com>
Sent: Thursday, September 28, 2023 9:59 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Brandon Sinclair <Brandon.Sinclair@hilcorp.com>; Miller, Jon -FS <jon.miller@usda.gov>
Subject: [EXTERNAL] Closure Sampling Notification - San Juan 30-5 Unit 29M (Incident #: nAPP2321580132)

Good Morning Everyone,

Hilcorp Energy Company is submitting this notification of closure sampling that will occur at the San Juan 30-5 Unit 29M release location (36.814701, -107.320524) in Rio Arriba County on **Monday, October 2, 2023, at approximately 10:00 AM (MT)**. We will update everyone as soon as possible if the sampling schedule changes; however, please feel free to reach out to me with any questions or concerns you may have.

Thanks,

Samantha Grabert

Hilcorp

713-757-7116 (Office)
337-781-9630 (Mobile)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 16, 2023

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

RE: SJ 30 5 Unit 29M OrderNo.: 2310070

Dear Samantha Grabert:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/3/2023 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 **2310070**
Date Reported: **10/16/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: Bottom Comp 6'
Project: SJ 30 5 Unit 29M
Collection Date: 10/2/2023 11:30:00 AM
Lab ID: 2310070-001 **Matrix:** SOIL
Received Date: 10/3/2023 6:30:00 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	10/5/2023 12:23:46 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2023 12:23:46 AM
Surr: DNOP	91.4	69-147		%Rec	1	10/5/2023 12:23:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/6/2023 5:12:32 PM
Surr: BFB	89.9	15-244		%Rec	1	10/6/2023 5:12:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	10/6/2023 5:12:32 PM
Toluene	ND	0.049		mg/Kg	1	10/6/2023 5:12:32 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/6/2023 5:12:32 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/6/2023 5:12:32 PM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	10/6/2023 5:12:32 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	87	60		mg/Kg	20	10/6/2023 2:00:13 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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310070**

16-Oct-23

Client: HILCORP ENERGY

Project: SJ 30 5 Unit 29M

Sample ID: **MB-78001**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **78001**	RunNo: **100281**
Prep Date: **10/6/2023**	Analysis Date: **10/6/2023**	SeqNo: **3673357** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-78001**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **78001**	RunNo: **100281**
Prep Date: **10/6/2023**	Analysis Date: **10/6/2023**	SeqNo: **3673358** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310070**

16-Oct-23

Client: HILCORP ENERGY

Project: SJ 30 5 Unit 29M

Sample ID: **MB-77957**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77957**	RunNo: **100236**
Prep Date: **10/4/2023**	Analysis Date: **10/4/2023**	SeqNo: **3669795** 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	8.8		10.00		88.2	69	147			

Sample ID: **LCS-77957**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77957**	RunNo: **100236**
Prep Date: **10/4/2023**	Analysis Date: **10/4/2023**	SeqNo: **3669796** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.8	61.9	130			
Surr: DNOP	3.9		5.000		78.6	69	147			

Sample ID: **2310070-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Bottom Comp 6'**	Batch ID: **77957**	RunNo: **100236**
Prep Date: **10/4/2023**	Analysis Date: **10/5/2023**	SeqNo: **3669816** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.2	46.17	0	104	54.2	135			
Surr: DNOP	4.1		4.617		88.5	69	147			

Sample ID: **2310070-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Bottom Comp 6'**	Batch ID: **77957**	RunNo: **100236**
Prep Date: **10/4/2023**	Analysis Date: **10/5/2023**	SeqNo: **3669817** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.4	46.90	0	103	54.2	135	0.634	29.2	
Surr: DNOP	4.3		4.690		90.9	69	147	0	0	

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310070**

16-Oct-23

Client: HILCORP ENERGY

Project: SJ 30 5 Unit 29M

Sample ID: **lcs-77953**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **77953**	RunNo: **100234**
Prep Date: **10/4/2023**	Analysis Date: **10/5/2023**	SeqNo: **3670240** 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	96.2	70	130			
Surr: BFB	1900		1000		194	15	244			

Sample ID: **mb-77953**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **77953**	RunNo: **100234**
Prep Date: **10/4/2023**	Analysis Date: **10/5/2023**	SeqNo: **3670241** 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	930		1000		93.5	15	244			

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310070**

16-Oct-23

Client: HILCORP ENERGY

Project: SJ 30 5 Unit 29M

Sample ID: **mb-77953**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **77953**	RunNo: **100234**
Prep Date: **10/4/2023**	Analysis Date: **10/5/2023**	SeqNo: **3670245** 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		102	39.1	146			

Sample ID: **LCS-77953**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **77953**	RunNo: **100234**
Prep Date: **10/4/2023**	Analysis Date: **10/5/2023**	SeqNo: **3673400** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	70	130			
Toluene	1.0	0.050	1.000	0	105	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.2	0.10	3.000	0	106	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERGY Work Order Number: 2310070 RcptNo: 1

Received By: Tracy Casarrubias 10/3/2023 6:30:00 AM

Completed By: Tracy Casarrubias 10/3/2023 7:29:54 AM

Reviewed By: 10.3.23

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 ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by: SCM 10/3/23

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: Mailing address and phone number are missing on COC- TMC 10/3/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Yes	Morty		

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinclair@hilcorp.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard (5 day) ☐ Rush

Project Name: SJ 30 5 Unit 29M

Project #:

Project Manager: Samantha Graebert

Sampler: Brandon Sinclair

On Ice: ☑ Yes ☐ No

# of Coolers: 1 (marty)

Cooler Temp(including CF): 5.0 · 0 = 5.0 (°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. 2310070	Analysis Request: 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)
10-2	1130	soil	Bottom Comp 6'	4oz jar	cool	001	✓	✓					✓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10-2	1653				10/2/23	1653
10/2/23	1810			Courier	10/3/23	6:30

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.

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 276639

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 276639
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	10/25/2023