

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	NAPP2209141509
District RP	
Facility ID	
Application ID	

Release Notification Responsible Party

Responsible Party Hilcorp Energy Company	OGRID 372171
Contact Name Billy Ginn	Contact Telephone 346-237-2073
Contact email William.Ginn@hilcorp.com	Incident # nAPP2209141509
Contact mailing address 1111 Travis Street, Houston, Texas 77002	

Location of Release Source

Latitude 36.766507 _____ Longitude -107.543303 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name San Juan 30-6 Unit 414	Site Type Natural Gas Production Facility
Date Release Discovered 03/31/2022 @ 09:53am MT	API# 30-039-24154

Unit Letter	Section	Township	Range	County
K	35	30N	07W	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 126	Volume Recovered (bbls) 110
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" 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:

On 03/31/2022 at approximately 09:53am MT, Hilcorp Energy Company (HEC) discovered corrosion on the aboveground storage tank (AST), which caused the contents of the tank (126 bbls of produced water) to release into the secondary containment at the San Juan 30-6 Unit 414 (API: 30-039-24154) in Rio Arriba County, NM. The release occurred in the Fruitland Coal Field (Lease No. NMSF079383) on Federal BLM land (30N, 7W, 35K). 126 bbls of produced water was discharged, with 110 bbls recovered. Spilled fluids did not migrate horizontally outside the bermed area or off pad, but 16 bbls of produced water migrated vertically into the underlying soils. The aforementioned volumes were calculated based on the tank dimensions, the location of the corrosion, and the amount of liquid stored in the tank prior to the release. Immediately upon discovery, the AST was isolated, and a vacuum truck was dispatched to the area recovering as much liquid as possible. There were no personal injuries. In an effort to prevent recurrence of the same incident, the tank will be inspected, cleaned and coated before being put back into service. No other spills have occurred at this site in the past three years. HEC made the appropriate notifications by e-mail to Mr. Abiodun Adeloje and Mr. Ryan Joyner with the BLM, along with Mr. Nelson Velez with the NMOCD within 24 hours of discovery of the release in accordance with NMAC 19.15.29.10 A. (1).

Incident ID	nAPP2133326844
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?	400 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2133326844
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: Billy Ginn Title: Environmental Specialist

Signature:  Date: 04/21/2022

email: William.Ginn@hilcorp.com Telephone: 346-237-2073

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2133326844
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: Billy Ginn Title: Environmental Specialist

Signature:  Date: 04/21/2022

email: William.Ginn@hilcorp.com Telephone: 346-237-2073

OCD Only

Received by: _____ Date: _____

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:  Date: 07/15/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Executive Summary

On 03/31/2022 at approximately 09:53am MT, Hilcorp Energy Company (HEC) discovered corrosion on the aboveground storage tank (AST), which caused the contents of the tank to release into the secondary containment at the San Juan 30-6 Unit 414 (API: 30-039-24154) in Rio Arriba County, NM. The release occurred in the Fruitland Coal Field (Lease No. NMSF079383) on Federal BLM land (30N, 7W, 35K). 126 barrels (bbls) of produced water was discharged, with 110 bbls recovered. Spilled fluids did not migrate horizontally outside the bermed area or off pad, but 16 bbls of produced water migrated vertically into the underlying soils. The aforementioned volumes were calculated based on the tank dimensions, the location of the corrosion, and the amount of liquid stored in the tank prior to the release. Immediately upon discovery, the AST was isolated, and a vacuum truck was dispatched to the area recovering as much liquid as possible. There were no personal injuries. In an effort to prevent recurrence of the same incident, the tank will be inspected, cleaned and coated before being put back into service. No other spills have occurred at this site in the past three years. HEC made the appropriate notifications by e-mail to Mr. Abiodun Adeloje and Mr. Ryan Joyner with the BLM, along with Mr. Nelson Velez with the NMOCD within 24 hours of discovery of the release in accordance with NMAC 19.15.29.10 A. (1).

Following the initial investigation, HEC chose to assess soil impacts by taking samples of the impacted area. Lab samples confirmed that the impacts were limited to staining at the surface of the secondary containment. On April 4, 2022, at 12:36pm, Billy Ginn with HEC emailed Mr. Abiodun Adeloje with the BLM and Mr. Nelson Velez with the NMOCD notifying them that HEC would be conducting confirmation soil sampling at the San Juan 30-6 Unit 414 on April 8, 2022, at 10:00am in accordance with NMAC 19.15.29.12.D. HEC's Brandon Sinclair proceeded with the confirmation sampling event as scheduled. The "Data Sheet for Deep Ground Bed Cathodic Protection Wells Northwestern New Mexico" for the San Juan 30-6 Unit 414 shows groundwater to be at 400'. Therefore, this site is ranked > 100 ft per Table 1 Closure Criteria for Soils Impacted by a Release. Ten (10) samples were collected from five (5) separate locations every two-hundred (200) square feet surrounding the storage tanks. Two (2) samples were collected at each location at 0-6" and 1'6"-2', respectively. Results for all soil samples were shown to be below the applicable clean up action levels. Refer to sample field notes and photographs for additional excavation information.

Billy Ginn

From: Billy Ginn
Sent: Thursday, March 31, 2022 3:18 PM
To: Enviro, OCD, EMNRD; 'Nelson.Velez@state.nm.us'; Abiodun Adelaye; Joyner, Ryan N
Cc: Matt Henderson
Subject: Hilcorp Release Notification - San Juan 30-6 Unit 414

Please let this serve as immediate notification for a major release discovered at the San Juan 30-6 Unit 414 (API 3003924154) in Rio Arriba County . The release was discovered today, 3/31/2022 at 09:53 a.m., by the site operator while doing a well check. When he arrived at location, he observed corrosion on the AST, causing the contents of the tank to release into the secondary containment. The total released was 126 bbls of produced water and 110 bbls were recovered. No one was injured and none of the produced water left location.

An initial C-141 will be submitted in accordance with NMAC 19.15.29.

Thank you,

Billy Ginn
Hilcorp Energy Company
346-237-2073 (Office)
832-561-4185 (Mobile)



Print

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Receipt of Fee Application Payment



PO Number: HE6HJ-220407-C-1410

Payment Date: 4/7/2022 8:09:24 AM
 Payment Amount: \$150.00
 Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action
 Fee Amount: \$150.00
 Application Status: Under OCD Review

OGRID: 372171
 First Name: William
 Last Name: Ginn
 Email: William.Ginn@hilcorp.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.

Billy Ginn

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Friday, April 1, 2022 10:23 AM
To: Billy Ginn; Adeloze, Abiodun A; Enviro, OCD, EMNRD
Cc: Matthew Valdez; Brian Roth; Brandon Sinclair
Subject: RE: [EXTERNAL] San Juan 30-6 Unit 414 Notification of Delineation and Confirmation Soil Sampling

Billy,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the final closure report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposal and/or final closure reports.

Correspondence required to be included in reports may include, but not limited to, time extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests.

Thanks again.

Regards

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Adeloze, Abiodun A <aadeloze@blm.gov>
Sent: Friday, April 1, 2022 9:09 AM
To: Billy Ginn <William.Ginn@hilcorp.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Matthew Valdez <mvaldez@hilcorp.com>; Brian Roth <broth@hilcorp.com>; Brandon Sinclair <Brandon.Sinclair@hilcorp.com>
Subject: Re: [EXTERNAL] San Juan 30-6 Unit 414 Notification of Delineation and Confirmation Soil Sampling

Thank you Billy, Hilcorp Energy can proceed with sampling if the BLM is not present at the time of the sampling.

Please notify BLM immediately if there is a change of schedule.

Thank you.

Abiodun Adeloze (Emmanuel), NRS
Bureau of Land Management

Farmington Field Office
6251 College Blvd., Suite A
Farmington, NM 87402
Office Phone: 505-564-7665
Cell Phone: 505-635-0984

From: Billy Ginn <William.Ginn@hilcorp.com>
Sent: Friday, April 1, 2022 5:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Adeloje, Abiodun A <aadeloje@blm.gov>
Cc: Matthew Valdez <mvaldez@hilcorp.com>; Brian Roth <broth@hilcorp.com>; Brandon Sinclair <Brandon.Sinclair@hilcorp.com>
Subject: [EXTERNAL] San Juan 30-6 Unit 414 Notification of Delineation and Confirmation Soil Sampling

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

All,

Hilcorp Energy Company is submitting this notification for conducting delineation and confirmation soil sampling at the San Juan 30-6 Unit 414 (API 3003924154, 36.766666, -107.543001) on April 4, 2022 at 10:00 a.m. We will update everyone as soon as possible if the sampling schedule changes.

Please reach out with any questions. Thanks.

Billy Ginn
Hilcorp Energy Company
346-237-2073 (Office)
832-561-4185 (Mobile)

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While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

Billy Ginn

From: Billy Ginn
 Sent: Monday, April 4, 2022 12:36 PM
 To: Enviro, OCD, EMNRD; Velez, Nelson, EMNRD; Abiodun Adeloje
 Cc: Matthew Valdez; Brian Roth; Brandon Sinclair
 Subject: RE: San Juan 30-6 Unit 414 Notification of Delineation and Confirmation Soil Sampling

Tracking:	Recipient	Read
	Enviro, OCD, EMNRD	
	Velez, Nelson, EMNRD	
	Abiodun Adeloje	
	Matthew Valdez	Read: 4/4/2022 12:38 PM
	Brian Roth	Read: 4/4/2022 12:39 PM
	Brandon Sinclair	Read: 4/5/2022 8:54 AM

All,

Due to the amount of rain received in this area yesterday, we will need to reschedule delineation and confirmation soil sampling at the San Juan 30-6 Unit 414 (API 3003924154, 36.766666, -107.543001), originally April 4, 2022 at 10:00 a.m, for Friday April 8, 2022 at 10:00 a.m. We will update everyone as soon as possible if the sampling schedule changes.

Please reach out with any questions. Thanks.

Billy Ginn
 Hilcorp Energy Company
 346-237-2073 (Office)
 832-561-4185 (Mobile)

From: Billy Ginn
 Sent: Friday, April 1, 2022 6:57 AM
 To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Abiodun Adeloje <aadeloje@blm.gov>
 Cc: Matthew Valdez <mvaldez@hilcorp.com>; Brian Roth <broth@hilcorp.com>; Brandon Sinclair <Brandon.Sinclair@hilcorp.com>
 Subject: San Juan 30-6 Unit 414 Notification of Delineation and Confirmation Soil Sampling

All,

Hilcorp Energy Company is submitting this notification for conducting delineation and confirmation soil sampling at the San Juan 30-6 Unit 414 (API 3003924154, 36.766666, -107.543001) on April 4, 2022 at 10:00 a.m. We will update everyone as soon as possible if the sampling schedule changes.

Please reach out with any questions. Thanks.

Billy Ginn
 Hilcorp Energy Company
 346-237-2073 (Office)

Billy Ginn

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Friday, April 1, 2022 10:37 AM
To: Billy Ginn
Cc: Bratcher, Mike, EMNRD
Subject: RE: [EXTERNAL] FW: San Juan 30-6 Unit 414 Notification of Delineation and Confirmation Soil Sampling

Billy,

Your request for a variance of the sampling timeframe is approved.

Please keep a copy of this communication for inclusion within the final closure report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposal and/or final closure reports.

Correspondence required to be included in reports may include, but not limited to, time extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests.

Thanks again.

Regards

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Billy Ginn <William.Ginn@hilcorp.com>
Sent: Friday, April 1, 2022 6:36 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: [EXTERNAL] FW: San Juan 30-6 Unit 414 Notification of Delineation and Confirmation Soil Sampling
Importance: High

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

As a follow-up to our discussion yesterday, Section 19.15.29.12(D)(1)(a) states the following:

D.Closure requirements. The responsible party must take the following action for any major or minor release containing liquids.**(1)** The responsible party must test the remediated areas for contamination with representative five-point composite samples from the walls and base, and individual grab samples from any wet or discolored areas . The samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC or constituents from other applicable remediation standards.**(a)** The responsible party must verbally notify the

appropriate division district office two business days prior to conducting final sampling. If the division district office does not respond to the notice within the two business days, the responsible party may proceed with final sampling. The responsible party may request a variance from this requirement upon a showing of good cause as determined by the division.

The rule specifies "business days". Due to the nature of this release and the urgency to delineate and sample, I would like to formally request a variance from 19.15.29.12(D)(1)(a) NMAC. Please let me know if you would like to discuss in detail.

Billy Ginn
Hilcorp Energy Company
346-237-2073 (Office)
832-561-4185 (Mobile)

From: Billy Ginn
Sent: Friday, April 1, 2022 6:57 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Abiodun Adeloye <adeloye@blm.gov>
Cc: Matthew Valdez <mvaldez@hilcorp.com>; Brian Roth <broth@hilcorp.com>; Brandon Sinclair <Brandon.Sinclair@hilcorp.com>
Subject: San Juan 30-6 Unit 414 Notification of Delineation and Confirmation Soil Sampling

All,

Hilcorp Energy Company is submitting this notification for conducting delineation and confirmation soil sampling at the San Juan 30-6 Unit 414 (API 3003924154, 36.766666, -107.543001) on April 4, 2022 at 10:00 a.m. We will update everyone as soon as possible if the sampling schedule changes.

Please reach out with any questions. Thanks.

Billy Ginn
Hilcorp Energy Company
346-237-2073 (Office)
832-561-4185 (Mobile)

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While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

Billy Ginn

From: OCDOOnline@state.nm.us
Sent: Friday, April 1, 2022 12:32 PM
To: Billy Ginn
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 95275

To whom it may concern (c/o William Ginn for HILCORP ENERGY COMPANY),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2209141509, with the following conditions:

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

Please reference nAPP2209141509, on all subsequent C-141 submissions and communications regarding the remediation of this release.

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

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

ocd.enviro@state.nm.us

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



Scaled Map



Note 1: The surface extent of the San Juan 30-6 Unit 414 release is represented by the red square shown in image above. Note that all spilled liquids remained within secondary containment.

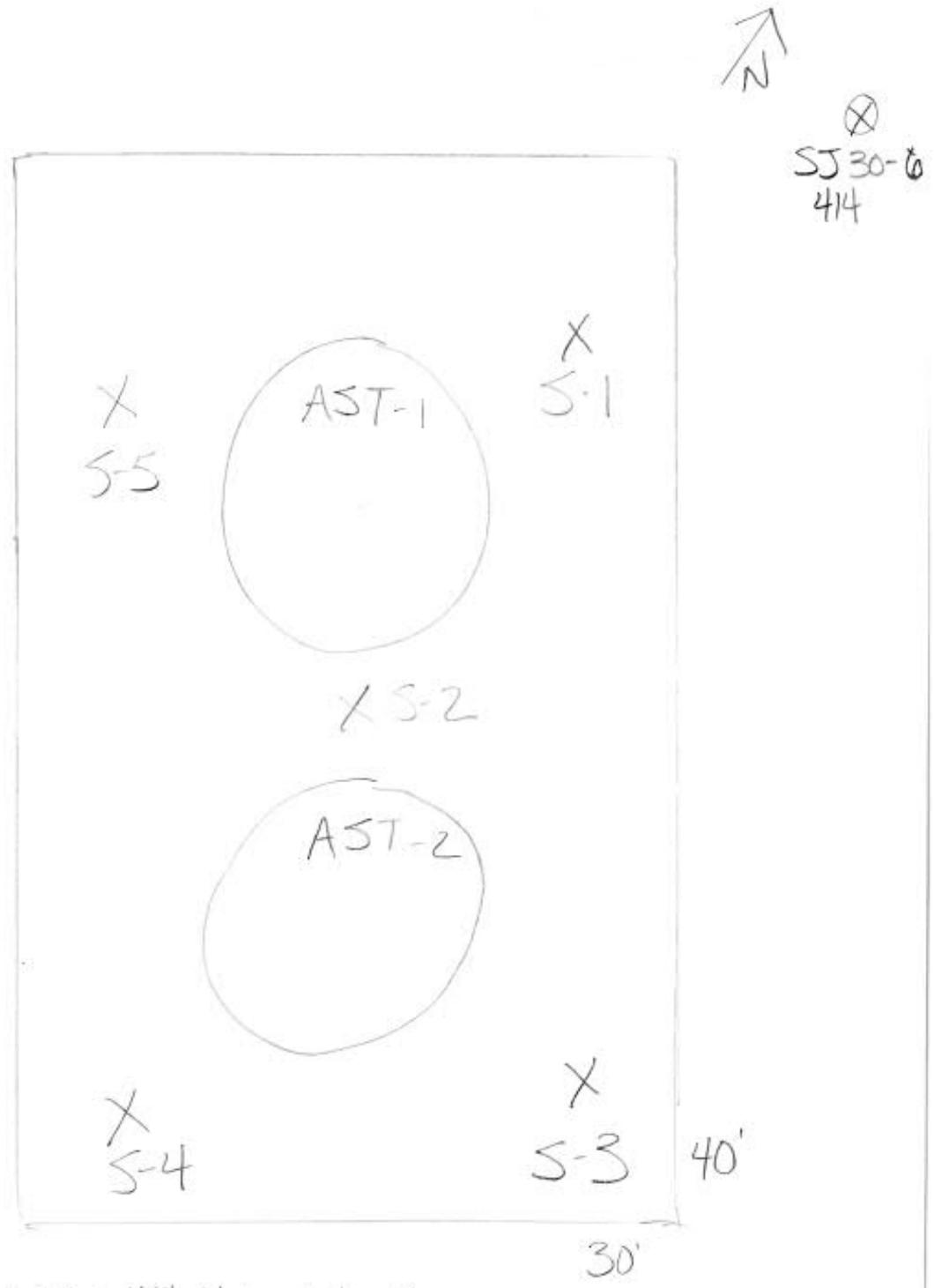


Scaled Map – Close-up



	Area of Release
	Sample Locations

Field Notes



Samples 0-6" + 1'6"-2' @ each location

Data Table of Soil Contaminant Concentration Data

TABLE 1
SOIL ANALYTICAL RESULTS
San Juan 30-6 Unit 414
HILCORP ENERGY - L48 WEST

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)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH GRO+DRO+MRO (mg/kg)
S-1 0-6"	4/8/2022	<0.12	<0.23	<0.23	<0.47	ND	<60	<23	<9.3	N/A	<47	N/A
S-1 1.5-2'	4/8/2022	<0.023	<0.046	<0.046	<0.092	ND	<60	<4.6	<9.5	N/A	<48	N/A
S-2 0-6"	4/8/2022	<0.025	<0.049	<0.049	<0.098	ND	<60	<4.9	<8.8	N/A	<44	N/A
S-2 1.5-2'	4/8/2022	<0.024	<0.048	<0.048	<0.096	ND	<60	<4.8	<9.2	N/A	<46	N/A
S-3 0-6"	4/8/2022	<0.12	<0.24	<0.24	<0.48	ND	330	<24	<10	N/A	<50	N/A
S-3 1.5-2'	4/8/2022	<0.12	<0.24	<0.24	<0.48	ND	290	<24	<9.3	N/A	<47	N/A
S-4 0-6"	4/8/2022	<0.12	<0.24	<0.24	<0.48	ND	270	<24	<9.6	N/A	<48	N/A
S-4 1.5-2'	4/8/2022	<0.025	<0.049	<0.049	<0.098	ND	380	<4.9	<9.1	N/A	<45	N/A
S-5 0-6"	4/8/2022	<0.024	<0.048	<0.048	<0.096	ND	110	<4.8	<8.7	N/A	<44	N/A
S-5 1.5-2'	4/8/2022	<0.023	<0.047	<0.047	<0.093	ND	<60	<4.7	<8.4	N/A	<42	N/A
NMOC Table 1 Closure Criteria		10	NE	NE	NE	50	20,000	NE	NE	1,000	NE	2,500

Note: Confirmation samples were collected every two-hundred (200) square feet on 4/8/2022 by HEC personnel. All samples came back below action levels.



Determination of water sources and significant watercourses within 1/2 mile of the lateral extent of the release/Distance to mapped water wells



★ POD Waters

Note 1: Release point not shown to be within 300 ft of a significant water course.

Note 2: The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland.

Note 3: The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.



Determination of water sources and significant watercourses within 1/2 mile of the lateral extent of the release



Note: Release point is not shown to be within 300 ft of a significant water course.

Depth to groundwater

2560

30-039-24154

E

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit K Sec. 35 Twp 30 Rng 7

Name of Well/Wells or Pipeline Served SAN JUAN 30-6 UNIT #414

cps 1922w

Elevation 6854' Completion Date 12/22/87 Total Depth 580' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 400' - 420' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 515', 505', 495', 485', 475', 465', 455', 445', 435', 425'

Depths vent pipes placed: 545'

Vent pipe perforations: 200'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

Note: Groundwater information taken from the "Data Sheet for Deep Ground Bed Cathodic Protection Wells Northwestern New Mexico" for the San Juan 30-6 Unit 414 shows groundwater to be at 400'. Therefore, this site is ranked > 100 ft per Table 1 Closure Criteria for Soils Impacted by a Release.

Source: Page found on NMOCD's website under San Juan 30-6 Unit 414 (API: 30-039-24154) – Associated Images – Well File Search (4/1/2022).



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

April 19, 2022

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

RE: San Juan 30-6 Unit 414

OrderNo.: 2204428

Dear Billy Ginn:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/9/2022 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204428

Date Reported: 4/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-1 0-6"

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 10:30:00 AM

Lab ID: 2204428-001

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/13/2022 5:09:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/13/2022 5:09:51 PM
Surr: DNOP	98.3	51.1-141		%Rec	1	4/13/2022 5:09:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	4/13/2022 4:51:00 PM
Surr: BFB	102	37.7-212		%Rec	5	4/13/2022 4:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/13/2022 4:51:00 PM
Toluene	ND	0.23		mg/Kg	5	4/13/2022 4:51:00 PM
Ethylbenzene	ND	0.23		mg/Kg	5	4/13/2022 4:51:00 PM
Xylenes, Total	ND	0.47		mg/Kg	5	4/13/2022 4:51:00 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	5	4/13/2022 4:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	4/14/2022 10:54:58 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	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2204428**

Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-1 1.5-2'

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 10:36:00 AM

Lab ID: 2204428-002

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/13/2022 5:20:37 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/13/2022 5:20:37 PM
Surr: DNOP	105	51.1-141		%Rec	1	4/13/2022 5:20:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/13/2022 5:10:00 PM
Surr: BFB	100	37.7-212		%Rec	1	4/13/2022 5:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/13/2022 5:10:00 PM
Toluene	ND	0.046		mg/Kg	1	4/13/2022 5:10:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	4/13/2022 5:10:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	4/13/2022 5:10:00 PM
Surr: 4-Bromofluorobenzene	80.8	70-130		%Rec	1	4/13/2022 5:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	4/14/2022 11:07:18 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 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order **2204428**

Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-2 0-6"

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 10:45:00 AM

Lab ID: 2204428-003

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	4/13/2022 5:31:24 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/13/2022 5:31:24 PM
Surr: DNOP	97.2	51.1-141		%Rec	1	4/13/2022 5:31:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 5:30:00 PM
Surr: BFB	103	37.7-212		%Rec	1	4/13/2022 5:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/13/2022 5:30:00 PM
Toluene	ND	0.049		mg/Kg	1	4/13/2022 5:30:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 5:30:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/13/2022 5:30:00 PM
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	4/13/2022 5:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	4/14/2022 11:19:39 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 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order **2204428**

Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-2 1.5-2'

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 10:50:00 AM

Lab ID: 2204428-004

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/13/2022 5:42:13 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/13/2022 5:42:13 PM
Surr: DNOP	98.6	51.1-141		%Rec	1	4/13/2022 5:42:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2022 5:50:00 PM
Surr: BFB	99.5	37.7-212		%Rec	1	4/13/2022 5:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/13/2022 5:50:00 PM
Toluene	ND	0.048		mg/Kg	1	4/13/2022 5:50:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2022 5:50:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/13/2022 5:50:00 PM
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	4/13/2022 5:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	4/14/2022 11:31:59 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 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order 2204428

Date Reported: 4/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-3 0-6"

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 10:55:00 AM

Lab ID: 2204428-005

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/13/2022 5:53:11 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/13/2022 5:53:11 PM
Surr: DNOP	108	51.1-141		%Rec	1	4/13/2022 5:53:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	4/13/2022 6:10:00 PM
Surr: BFB	106	37.7-212		%Rec	5	4/13/2022 6:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/13/2022 6:10:00 PM
Toluene	ND	0.24		mg/Kg	5	4/13/2022 6:10:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	4/13/2022 6:10:00 PM
Xylenes, Total	ND	0.48		mg/Kg	5	4/13/2022 6:10:00 PM
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	5	4/13/2022 6:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	330	60		mg/Kg	20	4/14/2022 11:44:20 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	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2204428**

Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-3 1.5-2'

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 11:01:00 AM

Lab ID: 2204428-006

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	14	9.3		mg/Kg	1	4/13/2022 6:04:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/13/2022 6:04:08 PM
Surr: DNOP	103	51.1-141		%Rec	1	4/13/2022 6:04:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	4/13/2022 6:29:00 PM
Surr: BFB	105	37.7-212		%Rec	5	4/13/2022 6:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/13/2022 6:29:00 PM
Toluene	ND	0.24		mg/Kg	5	4/13/2022 6:29:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	4/13/2022 6:29:00 PM
Xylenes, Total	ND	0.48		mg/Kg	5	4/13/2022 6:29:00 PM
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	5	4/13/2022 6:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	290	60		mg/Kg	20	4/14/2022 11:56:40 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 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order **2204428**

Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-4 0-6"

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 11:05:00 AM

Lab ID: 2204428-007

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	15	9.6		mg/Kg	1	4/13/2022 6:15:04 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/13/2022 6:15:04 PM
Surr: DNOP	105	51.1-141		%Rec	1	4/13/2022 6:15:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	4/13/2022 7:48:00 PM
Surr: BFB	103	37.7-212		%Rec	5	4/13/2022 7:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/13/2022 7:48:00 PM
Toluene	ND	0.24		mg/Kg	5	4/13/2022 7:48:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	4/13/2022 7:48:00 PM
Xylenes, Total	0.49	0.48		mg/Kg	5	4/13/2022 7:48:00 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	5	4/13/2022 7:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	270	60		mg/Kg	20	4/15/2022 12:09:01 AM

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 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order **2204428**

Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-4 1.5-2'

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 11:09:00 AM

Lab ID: 2204428-008

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	16	9.1		mg/Kg	1	4/13/2022 6:36:37 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/13/2022 6:36:37 PM
Surr: DNOP	108	51.1-141		%Rec	1	4/13/2022 6:36:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	7.8	4.9		mg/Kg	1	4/14/2022 11:44:00 AM
Surr: BFB	99.1	37.7-212		%Rec	1	4/14/2022 11:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/14/2022 11:44:00 AM
Toluene	0.20	0.049		mg/Kg	1	4/14/2022 11:44:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 11:44:00 AM
Xylenes, Total	0.42	0.098		mg/Kg	1	4/14/2022 11:44:00 AM
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	4/14/2022 11:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	380	60		mg/Kg	20	4/15/2022 12:21:21 AM

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 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order **2204428**

Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-5 0-6"

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 11:15:00 AM

Lab ID: 2204428-009

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	12	8.7		mg/Kg	1	4/13/2022 6:47:30 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/13/2022 6:47:30 PM
Surr: DNOP	102	51.1-141		%Rec	1	4/13/2022 6:47:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2022 8:27:00 PM
Surr: BFB	107	37.7-212		%Rec	1	4/13/2022 8:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/13/2022 8:27:00 PM
Toluene	ND	0.048		mg/Kg	1	4/13/2022 8:27:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2022 8:27:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/13/2022 8:27:00 PM
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	4/13/2022 8:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	110	59		mg/Kg	20	4/15/2022 12:33:42 AM

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 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order **2204428**

Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-5 1.5-2'

Project: San Juan 30-6 Unit 414

Collection Date: 4/8/2022 11:18:00 AM

Lab ID: 2204428-010

Matrix: SOIL

Received Date: 4/9/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	4/13/2022 6:58:22 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/13/2022 6:58:22 PM
Surr: DNOP	107	51.1-141		%Rec	1	4/13/2022 6:58:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/13/2022 8:47:00 PM
Surr: BFB	106	37.7-212		%Rec	1	4/13/2022 8:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/13/2022 8:47:00 PM
Toluene	ND	0.047		mg/Kg	1	4/13/2022 8:47:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/13/2022 8:47:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	4/13/2022 8:47:00 PM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/13/2022 8:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	4/15/2022 12:46:03 AM

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 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204428

19-Apr-22

Client: HILCORP ENERGY
Project: San Juan 30-6 Unit 414

Sample ID: MB-66856	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66856	RunNo: 87263								
Prep Date: 4/14/2022	Analysis Date: 4/14/2022	SeqNo: 3085785	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66856	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66856	RunNo: 87263								
Prep Date: 4/14/2022	Analysis Date: 4/14/2022	SeqNo: 3085786	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E 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#: 2204428

19-Apr-22

Client: HILCORP ENERGY
Project: San Juan 30-6 Unit 414

Sample ID: MB-66788	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66788	RunNo: 87194								
Prep Date: 4/12/2022	Analysis Date: 4/13/2022	SeqNo: 3084982	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	9.0		10.00		90.1	51.1	141			

Sample ID: LCS-66788	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66788	RunNo: 87194								
Prep Date: 4/12/2022	Analysis Date: 4/13/2022	SeqNo: 3084985	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.9	68.9	135			
Surr: DNOP	5.3		5.000		107	51.1	141			

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E 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#: 2204428

19-Apr-22

Client: HILCORP ENERGY
Project: San Juan 30-6 Unit 414

Sample ID: ics-66776	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66776	RunNo: 87227								
Prep Date: 4/11/2022	Analysis Date: 4/13/2022	SeqNo: 3084157	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB	2200		1000		218	37.7	212			S

Sample ID: mb-66776	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66776	RunNo: 87227								
Prep Date: 4/11/2022	Analysis Date: 4/13/2022	SeqNo: 3084158	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	1000		1000		99.9	37.7	212			

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E 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#: 2204428

19-Apr-22

Client: HILCORP ENERGY
Project: San Juan 30-6 Unit 414

Sample ID: ics-66776	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66776	RunNo: 87227								
Prep Date: 4/11/2022	Analysis Date: 4/13/2022	SeqNo: 3084210	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	80	120			
Toluene	0.91	0.050	1.000	0	91.0	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.5	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		83.3	70	130			

Sample ID: mb-66776	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66776	RunNo: 87227								
Prep Date: 4/11/2022	Analysis Date: 4/13/2022	SeqNo: 3084211	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	0.83		1.000		82.9	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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: 2204428

RcptNo: 1

Received By: Desiree Dominguez 4/9/2022 9:45:00 AM

Handwritten initials: DD

Completed By: Desiree Dominguez 4/11/2022 8:02:20 AM

Handwritten initials: DD

Reviewed By: JD 4/11/22

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [] Not Present []

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [] NA []

4. Were all samples received at a temperature of >0° C to 6.0° C? Yes [checked] No [] NA []

5. Sample(s) in proper container(s)? Yes [checked] No []

6. Sufficient sample volume for indicated test(s)? Yes [checked] No []

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []

8. Was preservative added to bottles? Yes [] No [checked] NA []

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]

10. Were any sample containers received broken? Yes [] No [checked]

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []

13. Is it clear what analyses were requested? Yes [checked] No []

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: CM 4/11/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

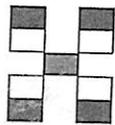
Person Notified: _____ Date: _____
By Whom: _____ Via: [] eMail [] Phone [] Fax [] In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 2.1, Good, Yes, , ,

Chain-of-Custody Record



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: Hilcorp

Mailing Address: on file

Phone #:

email or Fax#:

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

Accreditation: Az Compliance
 NELAC Other _____

EDD (Type)

Turn-Around Time:
 5 day
 Standard ~~Push~~

Project Name:
San Juan 30-6 Unit 414

Project #:

Project Manager:
Billy Ginn

Sampler: Brandon Sinclair

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 2.3 - 0.2 = 2.1 (°C)

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)										
✓	✓					✓													

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4-8	1030	SOI	S-1 0-6"	(1) 4oz Jar	Cool	2204420-001
	1036		S-1 1.5-2"			-002
	1045		S-2 0-6"			-003
	1050		S-2 1.5-2"			-004
	1055		S-3 0-6"			-005
	1101		S-3 1.5-2"			-006
	1105		S-4 0-6"			-007
	1109		S-4 1.5-2"			-008
	1115		S-5 0-6"			-009
	1118		S-5 1.5-2"			-010

Date: 4/8/22 Time: 1411 Relinquished by: [Signature]

Received by: [Signature] Via: Date: 4/8/22 Time: 1411

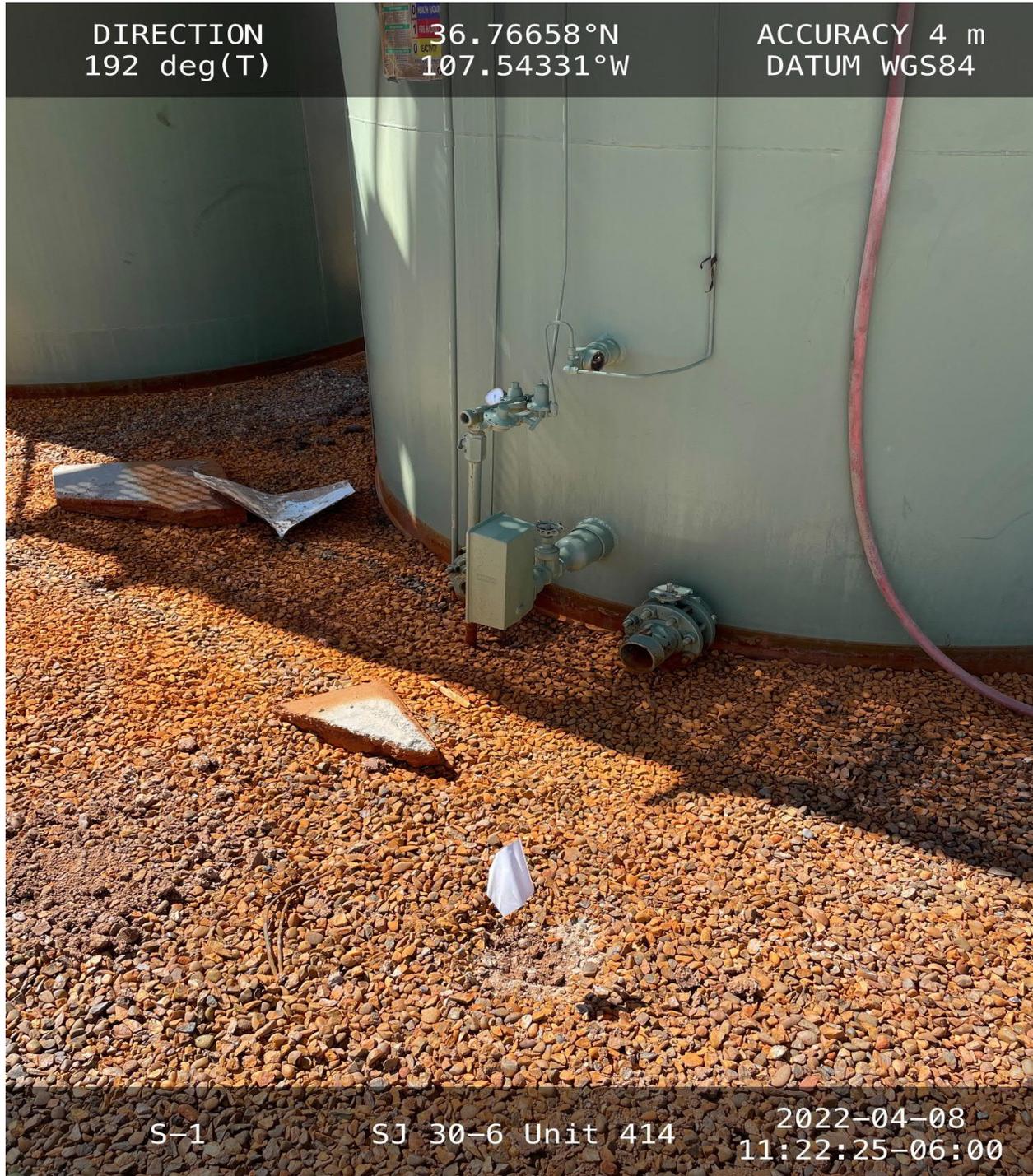
Date: 4/8/22 Time: 1756 Relinquished by: [Signature]

Received by: [Signature] Via: courier Date: 4/9/22 Time: 9:45

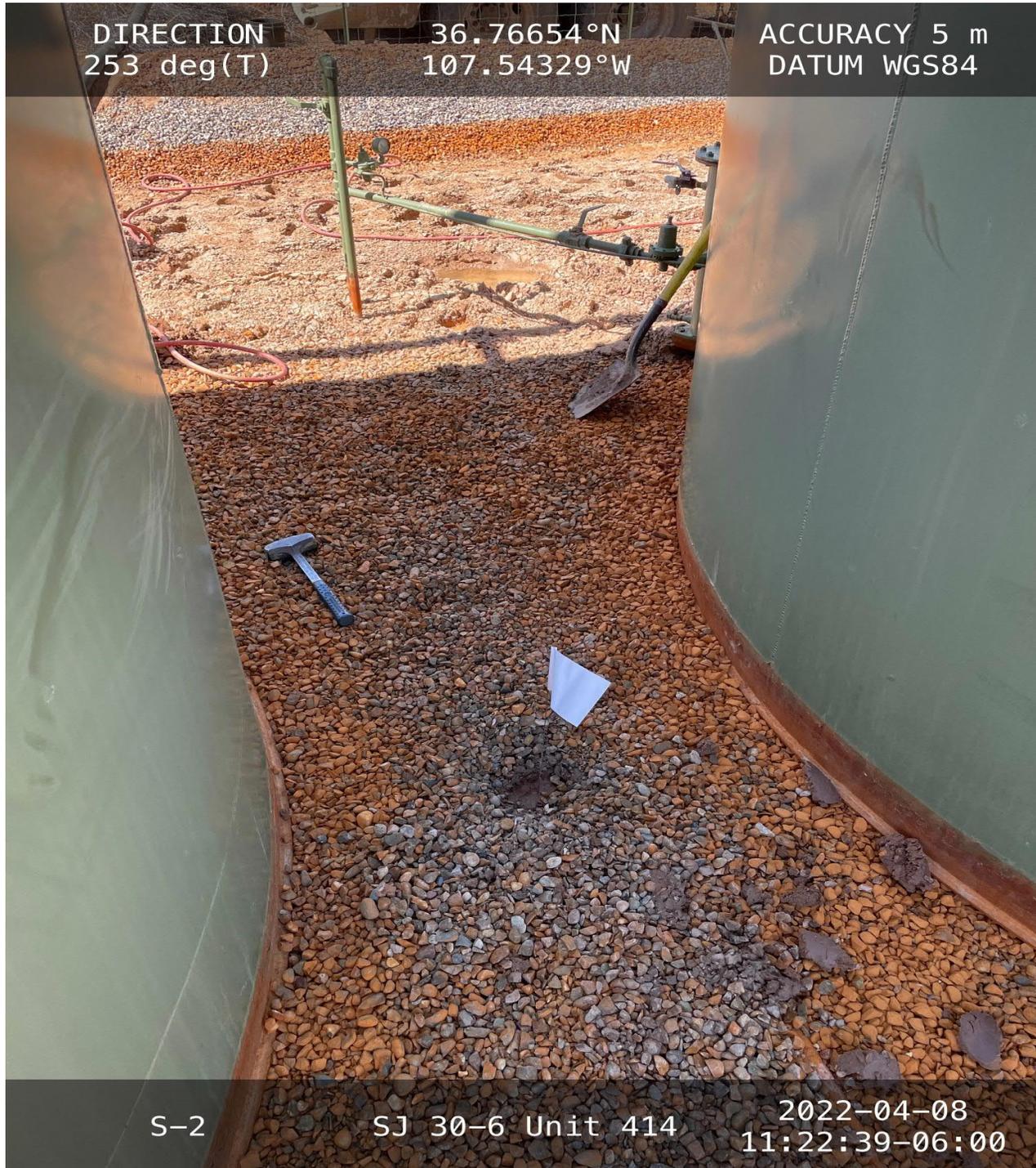
Remarks:
cc: william.ginn@hilcorp.com

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.

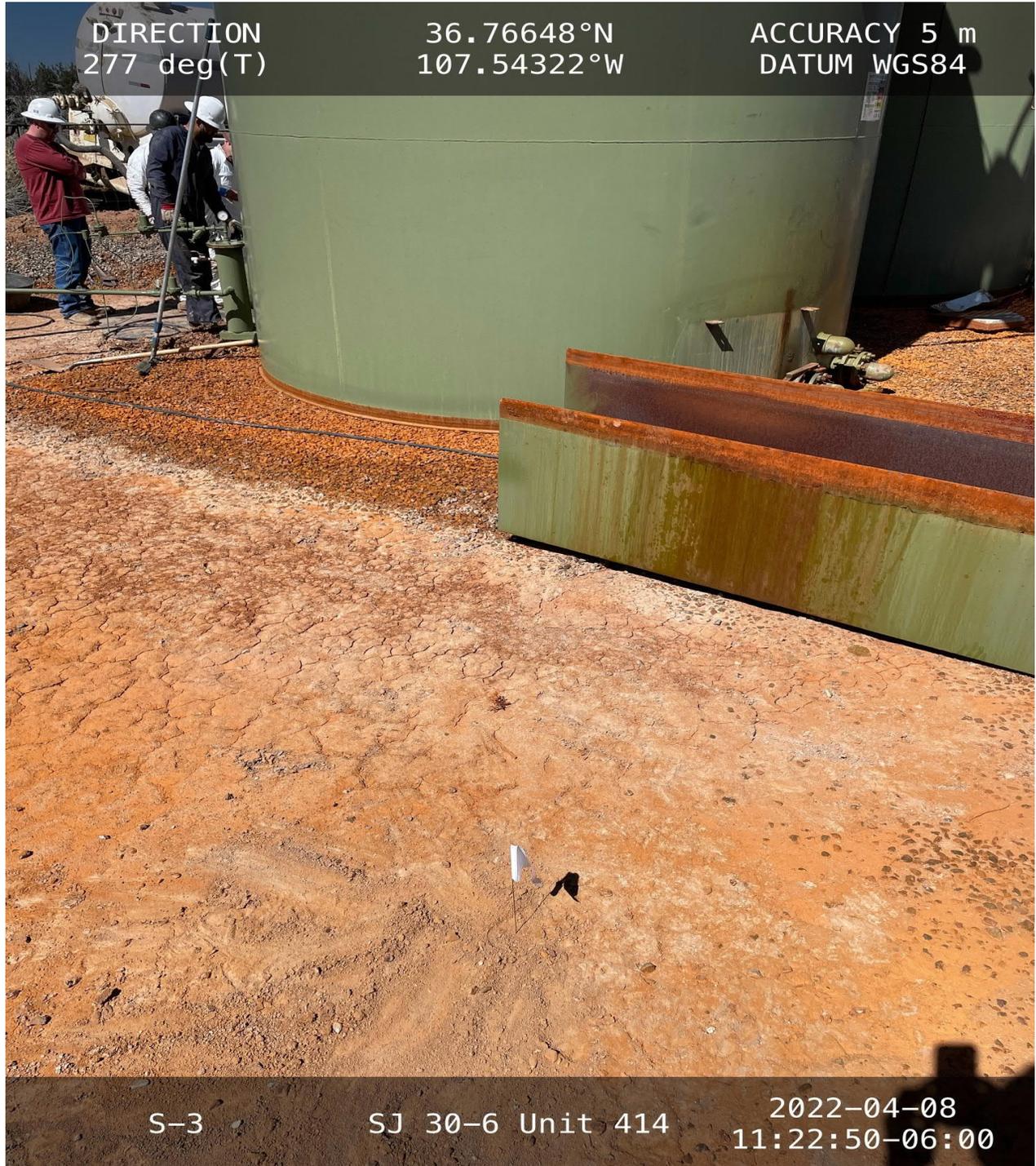
Field Photographs – 4/8/22



Field Photographs – 4/8/22



Field Photographs – 4/8/22



Field Photographs – 4/8/22



DIRECTION
5 deg (T)

36.76644°N
107.54332°W

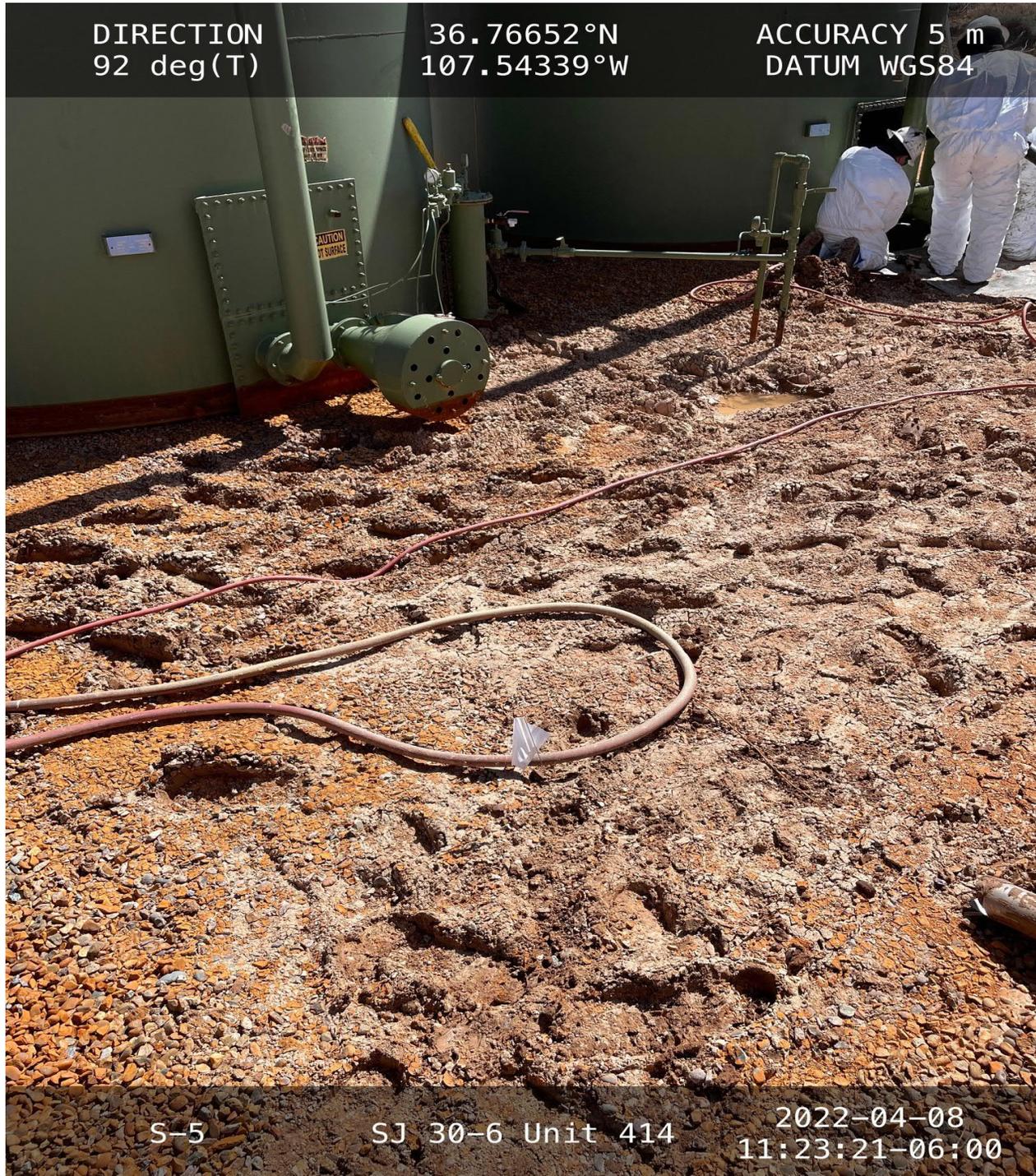
ACCURACY 5 m
DATUM WGS84

S-4

SJ 30-6 Unit 414

2022-04-08
11:23:04-06:00

Field Photographs – 4/8/22



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 100913

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 100913
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvez	Closure report approved. Release Resolved. The report failed to provide applicable 19.15.29 NMAC requirements. A follow up email will be submitted to the responsible party which will include the deficiencies, reasoning for the approval, and a pronouncement of OCD stance for any future reportable incidents. This email will then be recorded and inserted within the incident file associated with this release.	7/15/2022