

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-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

PPit 1

- Type of action: Below grade tank registration
 Permit of a pit or proposed alternative method
 Closure of a pit, below-grade tank, or proposed alternative method
 Modification to an existing permit/or registration
 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Hilcorp Energy Company OGRID #: 372171
Address: 382 Road 3100 Aztec, NM 87410
Facility or well name: Davis 6
API Number: 3004510855 OCD Permit Number: _____
U/L or Qtr/Qtr O Section 12 Township 31N Range 12W County: San Juan
Center of Proposed Design: Latitude 36.9086610°N Longitude -108.0471156°W NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2.
 Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
 Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
 Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVC Other _____
 String-Reinforced
Liner Seams: Welded Factory Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
 Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: _____ bbl Type of fluid: _____
Tank Construction material: _____
 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
 Visible sidewalls and liner Visible sidewalls only Other _____
Liner type: Thickness _____ mil HDPE PVC Other _____

4.
 Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)
 Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
 Four foot height, four strands of barbed wire evenly spaced between one and four feet
 Alternate. Please specify _____

6.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- Screen Netting Other _____
- Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC

- 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- Signed in compliance with 19.15.16.8 NMAC

8.

Variations and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

- Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting

Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

- Yes No
- NA

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

- Yes No
- NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)**

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

- Yes No

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)**

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

- Yes No

Within an unstable area. **(Does not apply to below grade tanks)**

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

- Yes No

Within a 100-year floodplain. **(Does not apply to below grade tanks)**

- FEMA map

- Yes No

Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

- Yes No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

- Yes No

Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

- Yes No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

- Yes No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

- Yes No

Within 100 feet of a wetland.
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).
- Topographic map; Visual inspection (certification) of the proposed site Yes No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No

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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Yes No

Within 300 feet of a wetland.
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes No

Permanent Pit or Multi-Well Fluid Management Pit

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).
- Topographic map; Visual inspection (certification) of the proposed site Yes No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Yes No

Within 500 feet of a wetland.
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes No

10. **Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
 - Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
 - Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
 - Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 - Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 - Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11. **Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 - Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 - A List of wells with approved application for permit to drill associated with the pit.
 - Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
 - Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
 - Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Climatological Factors Assessment
- Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- Quality Control/Quality Assurance Construction and Installation Plan
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Nuisance or Hazardous Odors, including H₂S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13. **Proposed Closure:** 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fluid Management Pit
 Alternative
- Proposed Closure Method: Waste Excavation and Removal
 Waste Removal (Closed-loop systems only)
 On-site Closure Method (Only for temporary pits and closed-loop systems)
 In-place Burial On-site Trench Burial
 Alternative Closure Method

14. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

- | | |
|--|--|
| <p>Ground water is less than 25 feet below the bottom of the buried waste.
 - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No
 <input type="checkbox"/> NA</p> |
| <p>Ground water is between 25-50 feet below the bottom of the buried waste
 - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No
 <input type="checkbox"/> NA</p> |
| <p>Ground water is more than 100 feet below the bottom of the buried waste.
 - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No
 <input type="checkbox"/> NA</p> |
| <p>Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).
 - Topographic map; Visual inspection (certification) of the proposed site</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.
 - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.
 - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Written confirmation or verification from the municipality; Written approval obtained from the municipality</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Within 300 feet of a wetland.
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.
Operator Application Certification:
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature:  Approval Date: 7/11/19

Title: Environmental Specialist OCD Permit Number: _____

19.
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date: 6/18/2019

20.
Closure Method:
 Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
 If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: 1927 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Priscilla Shorty Title: Operations/Regulatory Technician – Sr.

Signature: Priscilla Shorty Date: 7/10/2019

e-mail address: pshorty@hilcorp.com Telephone: (505)324-5188



July 10, 2019

TO: NMOCD AZTEC DISTRICT OFFICE

Re: Closure of Earthen Pit
Davis #6
API # 30-045-10855
Sec 12 – T31N – 12W
San Juan County, NM

On 6/7/2019, an OCD inspector identified an old Earthen Pit located near the Hilcorp Energy well Davis #6, 30-045-10855. HEC acquired the well in August 2017. The well was drilled in 1951 and it appears that there is not an approved closure plan. In the attached email dated 6/14/2019, it was approved that if contamination was not found, the fence would be removed and left as is. See photo showing removal of the fence.

On 6/21/2019, a 5-point composite sample was collected with Jonathan Kelly, NMOCD, as a witness. A liner was not found during the sample. See the attached results.

Sincerely,

A handwritten signature in blue ink that reads 'Priscilla Shorty'.

Priscilla Shorty
Operations Regulatory Tech – Sr.
(505)324-5188
pshorty@hilcorp.com

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Hilcorp Energy Company	OGRID	372171
Contact Name	Priscilla Shorty	Contact Telephone	(505) 324-5188
Contact email	pshorty@hilcorp.com	Incident #	<i>(assigned by OCD)</i>
Contact mailing address	382 Road 3100 Aztec NM 87410		

Location of Release Source

Latitude 36.9086 N Longitude -108.04711 W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Davis 6	Site Type	Gas Well
Date Release Discovered	N/A	API# <i>(if applicable)</i>	30-045-10855

Unit Letter	Section	Township	Range	County
0	12	31N	12W	San Juan

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

Cause of Release

No release was encountered during sampling.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Not Required	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

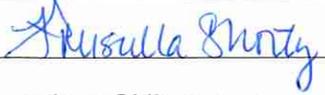
If all the actions described above have not been undertaken, explain why:

N/A

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: Priscilla Shorty Title: Operations/Regulatory Technician – Sr.

Signature:  Date: 7/10/19

email: pshorty@hilcorp.com Telephone: (505) 324-5188

OCD Only

Received by: _____ Date: _____

Jennifer Deal

From: Jennifer Deal
Sent: Friday, June 14, 2019 11:40 AM
To: cory.smith@state.nm.us
Cc: 'Adeloye, Abiodun'; whitney thomas (l1thomas@blm.gov); Kurt Hoekstra; Mike Murphy; Ramon Florez
Subject: Davis 6 - Confirmation Sampling

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning,

Hilcorp Energy is providing 48 hour notice of confirmation sampling to occur on June 19 at 8am for the potential earthen pit at the Davis 6. Please let me know if you have any questions.

Thanks,

Jennifer Deal
Environmental Specialist
Hilcorp Energy – L48 West
jdeal@hilcorp.com
382 Road 3100
Aztec, NM 87410
Office: (505) 324-5128
Cell: (505) 801-6517

Priscilla Shorty

To: Priscilla Shorty
Subject: RE: [EXTERNAL] RE: DAVIS 6 - INC

From: Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]
Sent: Friday, June 14, 2019 11:37 AM
To: Jennifer Deal <jdeal@hilcorp.com>
Cc: Kelly, Jonathan, EMNRD <Jonathan.Kelly@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Subject: [EXTERNAL] RE: DAVIS 6 - INC

Jennifer,

I don't have any issues with that. The Sample needs to be a 5 point composite sample collected from within the bermed area at a minimum depth of 6' or shallower if obvious impacts are noted.

The closure/sampling event needs to conform to 19.15.17.13 NMAC procedures and Hilcorp will need to generate a Closure report per 19.15.17 NMAC so there is documentation.

If you have any questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Jennifer Deal <jdeal@hilcorp.com>
Sent: Friday, June 14, 2019 9:32 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Subject: [EXT] FW: DAVIS 6 - INC
Importance: High

I couldn't find any data on the earthen pit on this site. With the mature vegetation in the area from the pictures, Hilcorp would like to sample the area to see if any remediation needs to be completed. If not, we will remove the fencing and leave it as is. Do you see any issues with this? Anything else we need to do for this besides sampling?

Thanks,

Jennifer Deal
Environmental Specialist
Hilcorp Energy – L48 West
jdeal@hilcorp.com
Office: (505) 324-5128
Cell: 505-801-6517

Priscilla Shorty

Subject: FW: Davis 6 - Confirmation Sampling
Attachments: Davis # 6.zip; Field Drawing.jpg

From: Kurt Hoekstra
Sent: Tuesday, June 25, 2019 3:18 PM
To: Jennifer Deal <jdeal@hilcorp.com>
Subject: RE: Davis 6 - Confirmation Sampling

Jennifer, Johnathan Kelly was onsite and witnessed me hand auger and collect a composite sample. Cory requested that the samples be collected at 6' deep but the soil was very sandy and dry so the 2 north auger holes were not that deep Jonathan ok'd this. If you need anything else let me know.

Thank you.

From: Jennifer Deal
Sent: Tuesday, June 25, 2019 3:08 PM
To: Kurt Hoekstra <khoekstra@hilcorp.com>
Subject: RE: Davis 6 - Confirmation Sampling

Kurt, do you have pictures and a diagram of where the sampling took place? Did OCD or BLM show up to location for this sampling?

Thanks,

Jennifer Deal
Environmental Specialist
Hilcorp Energy – L48 West
jdeal@hilcorp.com
Office: (505) 324-5128
Cell: 505-801-6517

From: Jennifer Deal
Sent: Friday, June 14, 2019 11:40 AM
To: cory.smith@state.nm.us
Cc: 'Adeloye, Abiodun' <aadeloye@blm.gov>; whitney thomas (l1thomas@blm.gov) <l1thomas@blm.gov>; Kurt Hoekstra <khoekstra@hilcorp.com>; Mike Murphy <mmurphy@hilcorp.com>; Ramon Florez <rflorez@hilcorp.com>
Subject: Davis 6 - Confirmation Sampling

Good morning,

Hilcorp Energy is providing 48 hour notice of confirmation sampling to occur on June 19 at 8am for the potential earthen pit at the Davis 6. Please let me know if you have any questions.

Thanks,

Jennifer Deal
Environmental Specialist
Hilcorp Energy – L48 West

June 25, 2019

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

HilCorp-Farmington, NM

Sample Delivery Group: L1111530
Samples Received: 06/21/2019
Project Number: DAVIS 6
Description: Davis 6
Site: DAVIS 6
Report To: Jennifer Deal
382 Road 3100
Aztec, NM 87401

Entire Report Reviewed By:



Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

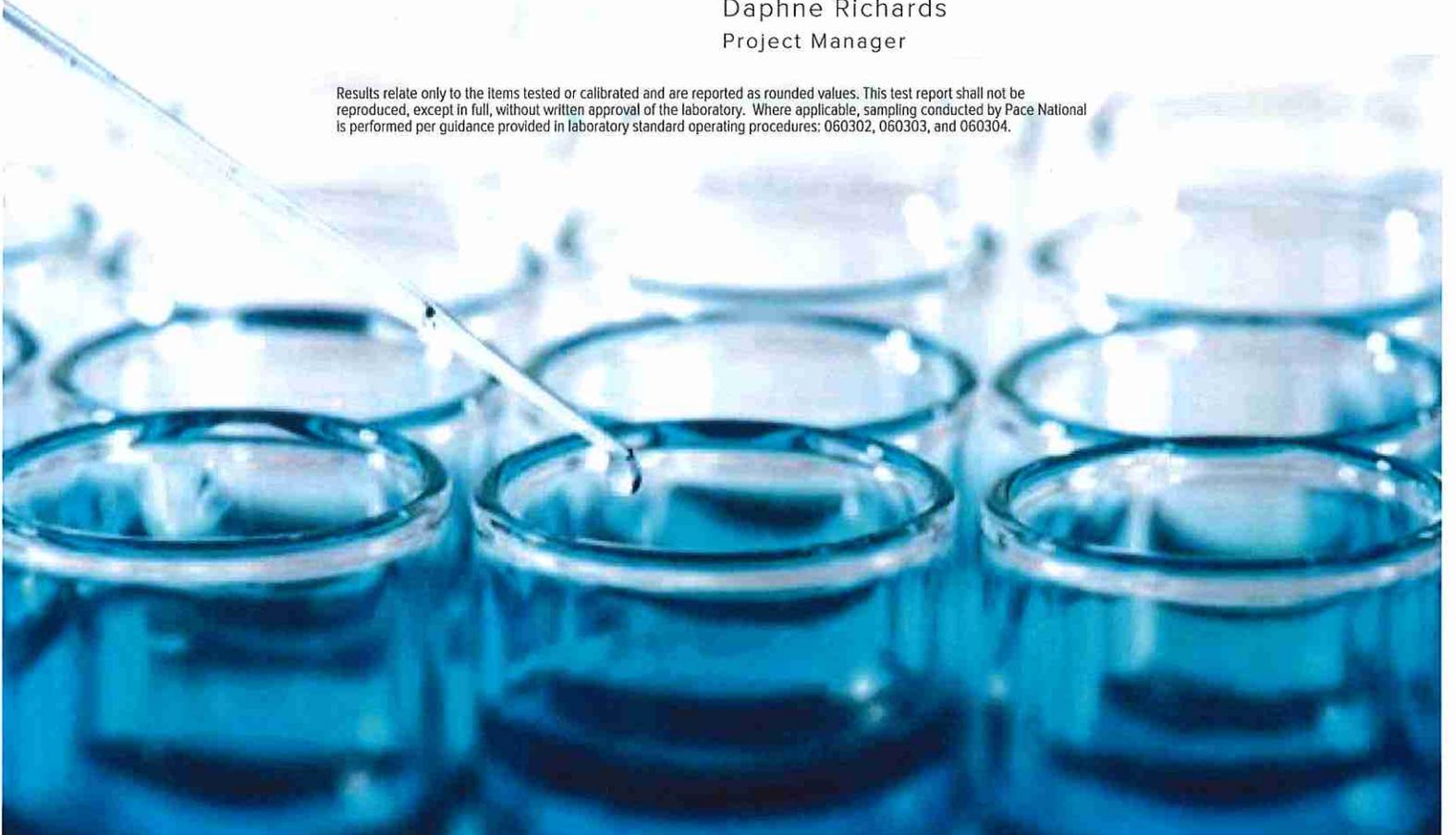


TABLE OF CONTENTS



Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	5	
INK L1111530-01	5	
Qc: Quality Control Summary	6	
Wet Chemistry by Method 300.0	6	
Volatile Organic Compounds (GC) by Method 8015D/GRO	7	
Volatile Organic Compounds (GC/MS) by Method 8260B	8	
Semi-Volatile Organic Compounds (GC) by Method 8015	9	
Gl: Glossary of Terms	10	
Al: Accreditations & Locations	11	
Sc: Sample Chain of Custody	12	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



INK L111530-01 Solid

Collected by: Kurt Hoekstra
 Collected date/time: 06/19/19 10:10
 Received date/time: 06/21/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1300287	1	06/22/19 11:37	06/23/19 17:45	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1301230	1	06/22/19 09:37	06/25/19 14:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1301171	1	06/22/19 09:37	06/24/19 17:44	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1300839	1	06/23/19 07:54	06/24/19 14:37	CLG	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Collected date/time: 06/19/19 10:10

L1111530

Wet Chemistry by Method 300.0

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	ND		10.0	1	06/23/2019 17:45	WG1300287

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/25/2019 14:50	WG1301230
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)	91.5		77.0-120		06/25/2019 14:50	WG1301230

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2019 17:44	WG1301171
Toluene	ND		0.00500	1	06/24/2019 17:44	WG1301171
Ethylbenzene	ND		0.00250	1	06/24/2019 17:44	WG1301171
Total Xylenes	ND		0.00650	1	06/24/2019 17:44	WG1301171
(S) Toluene- <i>d</i> 8	102		75.0-131		06/24/2019 17:44	WG1301171
(S) 4-Bromofluorobenzene	98.7		67.0-138		06/24/2019 17:44	WG1301171
(S) 1,2-Dichloroethane- <i>d</i> 4	105		70.0-130		06/24/2019 17:44	WG1301171

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	13.9		4.00	1	06/24/2019 14:37	WG1300839
C28-C40 Oil Range	23.7		4.00	1	06/24/2019 14:37	WG1300839
(S) <i>o</i> -Terphenyl	61.2		18.0-148		06/24/2019 14:37	WG1300839



L1111530-01

Method Blank (MB)

(MB) R3423918-1 06/23/19 17:20

Analyte	MB Result mg/kg	MB Qualifier mg/kg	MB MDL mg/kg	MB RDL mg/kg
Chloride	1.48	J	0.795	10.0

L1111530-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1111530-01 06/23/19 17:45 • (DUP) R3423918-3 06/23/19 17:54

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	ND	2.91	1	0.000		20

L1111839-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1111839-01 06/23/19 19:36 • (DUP) R3423918-4 06/23/19 19:45

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	116	116	1	0.141		20

Laboratory Control Sample (LCS)

(LCS) R3423918-2 06/23/19 17:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	209	105	90.0-110	

L1111839-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1111839-02 06/23/19 19:53 • (MS) R3423918-5 06/23/19 20:02 • (MSD) R3423918-6 06/23/19 20:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	99.8	606	604	1	80.0-120	101	101	0.444	20

1 Cp	2 Tc	3 Ss	4 Cn	5 Sr	6 Qc	7 GI	8 Al	9 Sc
------	------	------	------	------	------	------	------	------



Method Blank (MB)

(MB) R3424525-3 06/25/19 11:44			
Analyte	MB Result	MB MDL	MB RDL
	mg/kg	mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U	0.0217	0.100
^(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.4		77.0-120

Laboratory Control Sample (LCS)

(LCS) R3424525-2 06/25/19 11:03					
Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.95	90.0	72.0-127	
^(S) <i>a,a,a</i> -Trifluorotoluene(FID)			104	77.0-120	

¹ Cp	² Tc	³ Ss	⁴ Cn	⁵ Sr	⁶ Qc	⁷ Gl	⁸ Al	⁹ Sc
-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------

Method Blank (MB)

(MB) R3424238-2 06/24/19 11:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	0.000564	J	0.000530	0.00250
Toluene	0.00276	J	0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	96.6			67.0-138
(S) 1,2-Dichloroethane-d4	98.0			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3424238-1 06/24/19 10:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.139	111	70.0-123	
Ethylbenzene	0.125	0.151	121	74.0-126	
Toluene	0.125	0.107	85.7	75.0-121	
Xylenes, Total	0.375	0.360	96.0	72.0-127	
(S) Toluene-d8			98.0	75.0-131	
(S) 4-Bromofluorobenzene			106	67.0-138	
(S) 1,2-Dichloroethane-d4			111	70.0-130	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Oc
7 Gl
8 Al
9 Sc



Method Blank (MB)

(MB) R3423928-1 06/24/19 09:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U	1.61	4.00	4.00
C28-C40 Oil Range	U	0.274	4.00	4.00
(S) o-Terphenyl	75.5		18.0-148	18.0-148

Laboratory Control Sample (LCS)

(LCS) R3423928-2 06/24/19 09:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	42.6	85.2	50.0-150	
(S) o-Terphenyl		100	100	18.0-148	

L111485-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L111485-01 06/24/19 11:41 • (MS) R3423928-3 06/24/19 11:55 • (MSD) R3423928-4 06/24/19 12:10

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
C10-C28 Diesel Range	57.2	55.0	69.8	66.2	25.9	19.4	1	50.0-150	J6	J6	5.28	20
(S) o-Terphenyl					50.9	66.3		18.0-148				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 GI
8 AI
9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Pres
Chk

Billing Information:
ATTN: Jennifer Deal

Report to:
Jennifer Deal
Email To:
jdeal@hilcorp.com;

Project Description:
Davis 6
City/State Collected: **Aztec, NM**

Client Project #
5055640733
Lab Project #

Site/Facility ID #
Davis 6
P.O. #

Collected by (signature):
Kurt Hoekstra
Quote #

Collected by (signature):
Rush? (Lab MUST Be Notified)
Same Day ___ Five Day ___
Next Day ___ 5 Day (Rad Only) ___
 Two Day ___ 10 Day (Rad Only) ___
Three Day ___

Immediately Packed on Ice N ___ Y

Sample ID

Comp/Grab Matrix * Depth Date

Comp SS 6/4/19 10:10 am

Chlorides 300

BTEX (8260B)

THP - MRO/DRO/GRO (8015)

No. of Cntrs

Time

Date

Date Results Needed

Date

Time

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# **L111530**
J048

Account: **HILCORANM**

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Remarks

Sample # (lab only)

-01

Sample Receipt Checklist

COC Seal Present/Intact: NP N

COC Signed/Accurate: N

Bottles arrive intact: N

Correct bottles used: N

Sufficient volume sent: N

If applicable

VQA Zero Headpace: Y N

Preservation Correct/Checked: Y N

Condition: NCF

Hold:

If preservation required by Login: Date/Time

Date: **6/21/19**

Time: **0845**

Temp: **9.3°C**

Bottles Received: **402**

Temp: **9.3°C**

Date: **6/21/19**

Time: **0845**

Temp: **9.3°C**

Bottles Received: **402**

Date: **6/21/19**

Time: **0845**

Temp: **9.3°C**

Date: **6/21/19**

Time: **0845**

Temp: **9.3°C**

Date: **6/21/19**

Time: **0845**

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received by: (Signature)

Tracking # **4794 8829 9634**

Received by: (Signature)

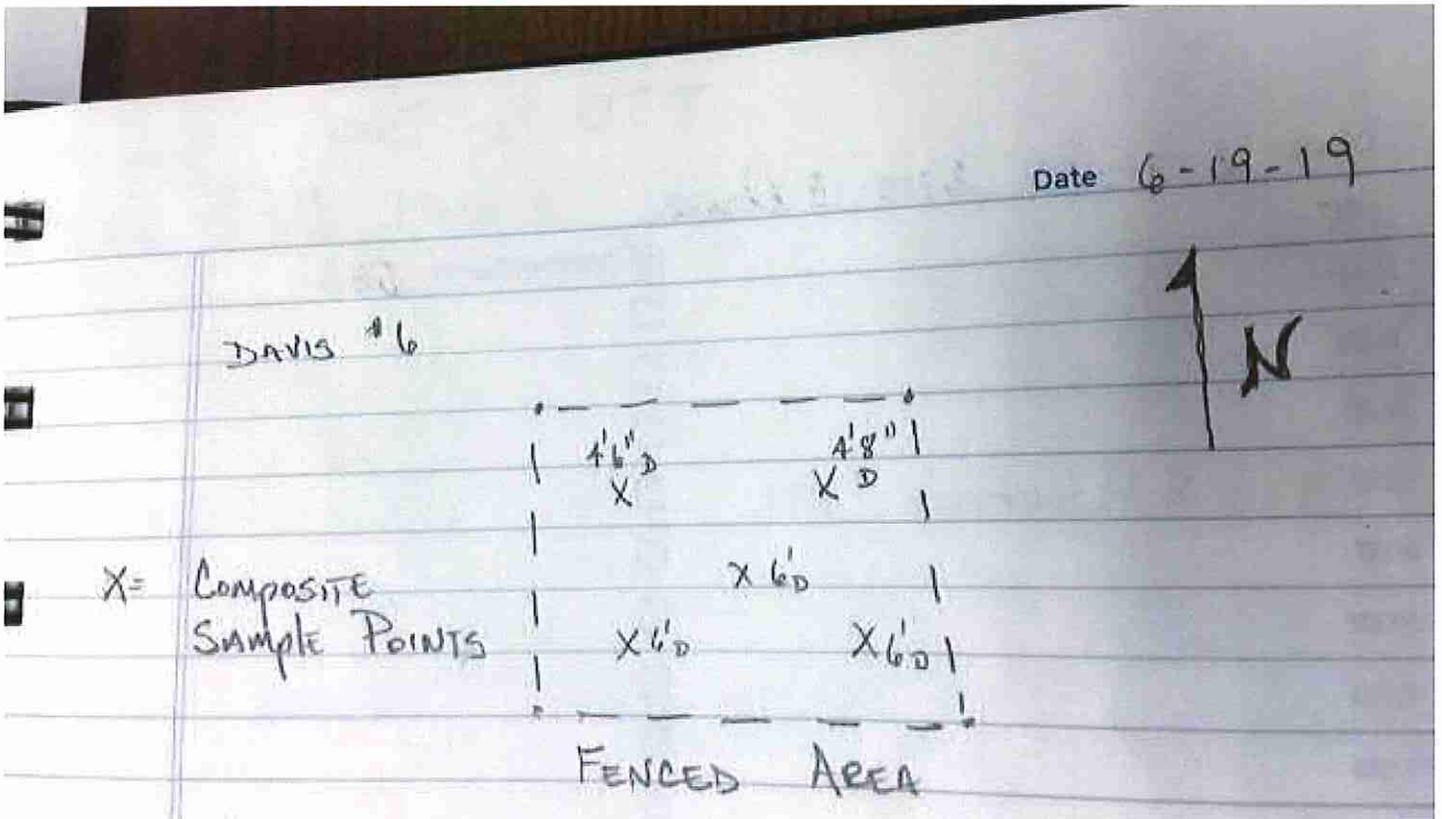
Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)



FIELD DRAWING



CENTER SAMPLE POINT



N.E. SAMPLE POINT



N.W. SAMPLE POINT



S.E. SAMPLE POINT



S.W. SAMPLE POINT



