

# Trinity Oilfield Services & Rentals, LLC

## Environmental Site Summary & Spill Remediation Proposal



Company: OXY USA, Inc. Address: P.O. Box 4294, Houston, TX 77210 Telephone #: (575) 390-2828

Site Name: B Hardin Battery NMOCD Reference#: 1RP-4933

Surface Owner: Fee Mineral Owner: Fee

Unit Letter: P Section: 13 Township: 18S Range: 37E County: Lea GPS Coordinates: 32.742831 N -103.198829 W

Date/Time of Release: 1/9/2018 Type of Release: ☒ Crude Oil ☐ Produced Water

Volume(s) Released: 15 bbls Volume(s) Recovered: 12 bbls

Closure Criteria for Impacted Soil (mg/kg; See Appendix C, "Closure Criteria Justification"):

Benzene: 10 BTEX: 50 GRO+DRO: 1,000 TPH: ☐ 100 Chloride: ☐ 600  
☒ 2,500 ☒ 10,000  
☐ 20,000

### Background Information:

On January 9, 2018, OXY USA, Inc. (OXY), discovered a release at the B Hardin Battery. Failure of a 3-inch steel check valve on the piping of a heater treater resulted in the release of approximately 15 barrels (bbls) of crude oil. The release was confined to the containment area surrounding the heater treater and affected a total area measuring approximately 900 square feet. During initial response activities, the check valve was repaired, and a vacuum truck was utilized to recover approximately 12 bbls of free-standing liquid.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. General photographs of the release site are provided in Appendix B. A "Site Location Map" is provided as Figure 1.

### Summary of Field Activities:

On February 7, 2018, a hand auger was utilized to advance a series of 4 boreholes (SP-1 through SP-4) inside the containment area to investigate the extent of impacted soil. The auger holes were advanced to total depths ranging from approximately 6 inches (SP-3 and SP-4) to 2 feet (SP-2) below ground surface (bgs). Soil samples were collected at 6-inch to 1-foot vertical intervals and field-screened with a chloride test kit. Representative confirmation samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of chloride, total petroleum hydrocarbons (TPH), and/or benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively. Laboratory analytical results and field-screens indicated additional delineation to determine the extent of impacted soil was required.

On February 27, 2019, a backhoe was utilized to advance a series of delineation trenches in the areas represented by auger holes SP-1 through SP-4 to further investigate the horizontal and vertical extent of impacted soil. The delineation trenches were advanced horizontally to the inferred margins of the release and vertically to the hard rock layer underlying the site, which is typically encountered 2.5 to 3 feet bgs. Soil samples were collected from the floors and sidewalls of the trenches and field-screened with TPH and/or chloride test kits. Representative confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results and field screens indicated horizontal and vertical delineation of the release had been achieved.

Locations of the auger holes and delineation trenches are depicted in Figure 2, "Site Plan". Laboratory analytical results are summarized in Table 1, and analytical reports are provided in Appendix D. Chloride and TPH field test results are summarized in Table 2.

# Trinity Oilfield Services & Rentals, LLC

## Environmental Site Summary & Spill Remediation Proposal



### Proposed Activities:

OXY proposes to conduct the following activities to progress the B Hardin Battery release site to an NMOCD-approved closure:

- The excavation will be advanced vertically to the hard rock layer underlying the site, which is typically encountered between 2.5 and 3 feet bgs (represented by soil samples SP-1 Floor, SP-2 Floor, SP-3 Floor, and SP-4 Floor).
- The excavation will be advanced horizontally to the areas represented by soil samples SP-1 S., SP-2 W., SP-3 N., and SP-4 E.
- To preserve the structural integrity of the heater treater, excavation around the heater will be limited to a depth of 6 inches to 1 foot bgs.
- The total volume of soil to be excavated is approximately 71 cubic yards.
- Excavation in some impacted areas will be hindered by the presence of the heater treater and/or active pipes, electrical lines, etc. Impacted soil remaining in-situ will be remediated upon decommissioning and/or abandonment of the facility.
- Representative 5-point composite soil samples will be collected from the floor and sidewalls of the excavation and submitted to Xenco Laboratories for confirmatory analyses of chloride, TPH, and/or BTEX concentrations using the EPA analytical methods listed in the "Summary of Field Activities" above.
- All excavated soil will be stockpiled on-site on 6-mil plastic, pending transfer to Lea Land, Inc., for disposal.
- The excavation will be fenced off during periods of inactivity to prevent injury to oilfield personnel, livestock, and/or wildlife.
- Following remediation activities, the excavation will be backfilled with locally acquired, non-impacted material, compacted, and contoured to fit the needs of the facility.
- The aforementioned corrective actions will be completed within 45 days of receipt of approval of this proposal by the NMOCD. Upon completion of the proposed tasks, a "Remediation Summary & Closure Request" will be submitted, documenting remediation activities and results of confirmation soil samples.

### Enclosures:

**Figure 1: Site Location Map**

**Figure 2: Site Plan**

**Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil**

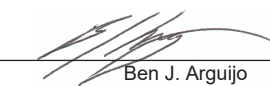
**Table 2: Field Tests**

**Appendix A: Release Notification & Corrective Action (Form C-141)**

**Appendix B: Photographs**

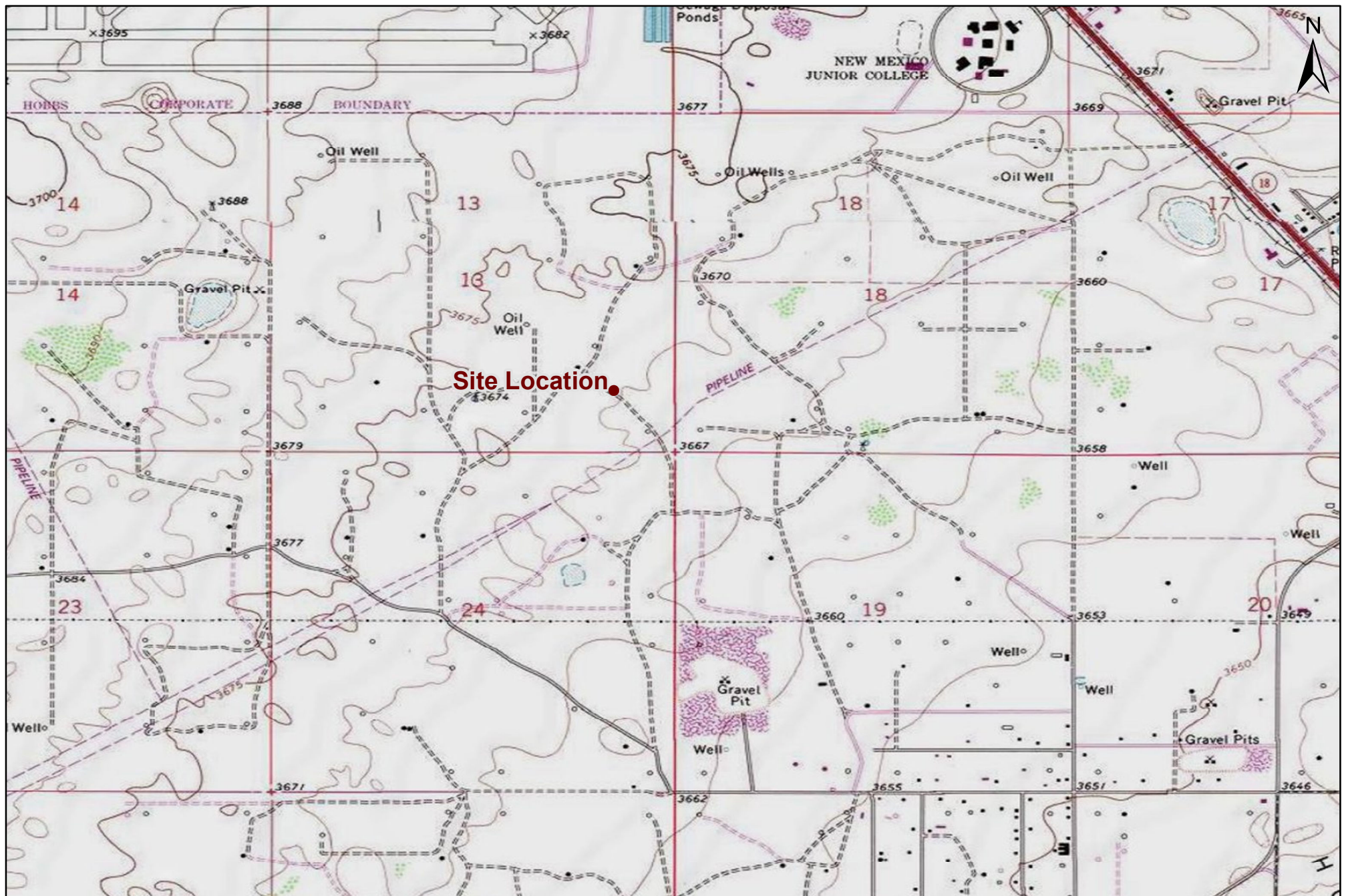
**Appendix C: Closure Criteria Justification**

**Appendix D: Laboratory Analytical Results**

  
Ben J. Arguijo  
Project Manager

3/13/2019

# Figures



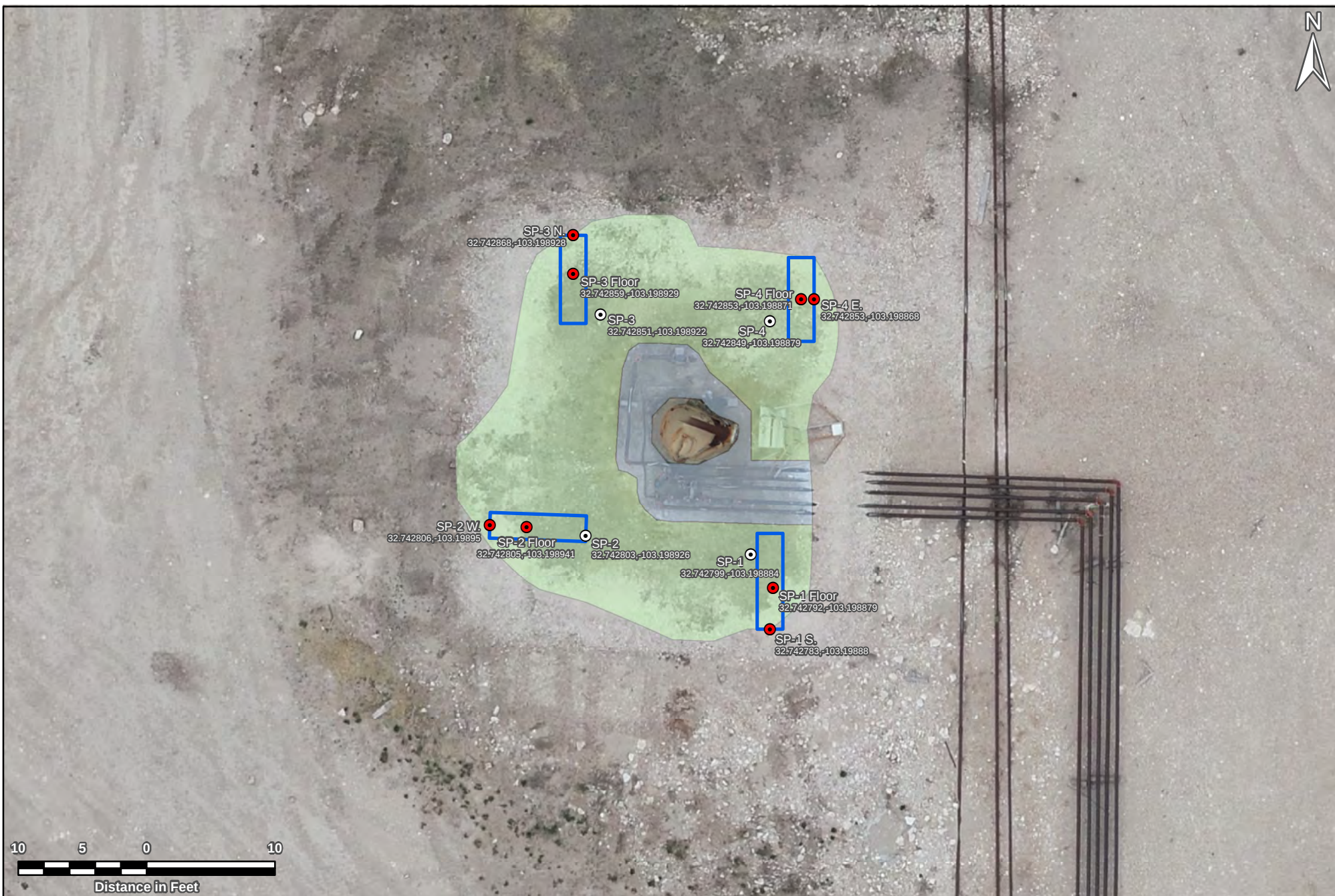
**Figure 1**  
**Site Location Map**  
**OXY USA, Inc.**  
**B Hardin Battery**  
**Lea County, New Mexico**  
**NMOCD Reference #: 1RP-4933**



Trinity Oilfield Services & Rentals, LLC  
P.O. Box 2587  
Hobbs, NM 88241

|               |                    |
|---------------|--------------------|
| Drawn By: BJA | Checked By: JEH    |
| March 6, 2019 | Scale: 1" = 2,000' |

2,000 1,000 0 2,000  
  
Distance in Feet



#### Legend

Proposed Excavation Depths

6" - 1' bgs

2.5' - 3' bgs

Delineation Trench

Auger Hole

Sample Location

**Figure 2**  
**Site Plan**  
**OXY USA, Inc.**  
**B Hardin Battery**  
**Lea County, New Mexico**  
**NMOCD Reference #: 1RP-4933**



Trinity Oilfield Services & Rentals, LLC  
P.O. Box 2587  
Hobbs, NM 88241

Drawn By: BJA

March 12, 2019

Checked By: JEH

Scale: 1" = 10'

# Tables

**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**

OXY USA, INC.  
B HARDIN BATTERY  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE #: 1RP-4933



| SAMPLE LOCATION             | SAMPLE DEPTH (BGS) | SAMPLE DATE | SAMPLE TYPE   | SOIL STATUS | EPA SW-846 Method 8021B |                 |                       |                     |                  |                       |                    | EPA SW-846 Method 8015M |                     |                  |                     |                    | EPA 300          |
|-----------------------------|--------------------|-------------|---------------|-------------|-------------------------|-----------------|-----------------------|---------------------|------------------|-----------------------|--------------------|-------------------------|---------------------|------------------|---------------------|--------------------|------------------|
|                             |                    |             |               |             | BENZENE (mg/kg)         | TOLUENE (mg/kg) | ETHYL-BENZENE (mg/kg) | M,P-XYLENES (mg/kg) | O-XYLENE (mg/kg) | TOTAL XYLENES (mg/kg) | TOTAL BTEX (mg/kg) | GRO C6-C12 (mg/kg)      | DRO C12-C28 (mg/kg) | GRO+ DRO (mg/kg) | MRO C28-C35 (mg/kg) | TPH C6-C35 (mg/kg) | CHLORIDE (mg/kg) |
| NMOCD Closure Limit (mg/kg) |                    |             |               |             | 10                      | NE              | NE                    | NE                  | NE               | NE                    | 50                 | NE                      | NE                  | 1,000            | NE                  | 2,500              | 10,000           |
| SP-1 @ 6"                   | 6"                 | 2/7/2018    | Grab (Auger)  | In-Situ     | -                       | -               | -                     | -                   | -                | -                     | -                  | 947                     | 2,330               | 3,277            | 170                 | 3,450              | 642              |
| SP-1 @ 1'                   | 1'                 | 2/7/2018    | Grab (Auger)  | In-Situ     | -                       | -               | -                     | -                   | -                | -                     | -                  | 1,730                   | 3,980               | 5,710            | 317                 | 6,030              | 389              |
| SP-1 Floor                  | 3'                 | 2/27/2019   | Grab (Trench) | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | 0.0104           | 0.0104                | 0.0104             | <15.0                   | 228                 | 228              | 42.6                | 271                | 78.3             |
| SP-1 S.                     | 2'                 | 2/27/2019   | Grab (Trench) | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | <0.0020          | <0.0020               | <0.0020            | <15.0                   | 65.3                | 65.3             | 46.1                | 111                | 127              |
| SP-2 @ 6"                   | 6"                 | 2/7/2018    | Grab (Auger)  | In-Situ     | -                       | -               | -                     | -                   | -                | -                     | -                  | 3,180                   | 6,800               | 9,980            | 473                 | 10,500             | 415              |
| SP-2 @ 2'                   | 2'                 | 2/7/2018    | Grab (Auger)  | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | <0.0020          | <0.0020               | <0.0020            | 15.6                    | 94.3                | 110              | <15.0               | 110                | 790              |
| SP-2 Floor                  | 3'                 | 2/27/2019   | Grab (Trench) | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | <0.0020          | <0.0020               | <0.0020            | <15.0                   | 19.6                | 19.6             | <15.0               | 19.6               | 19.1             |
| SP-2 W.                     | 2'                 | 2/27/2019   | Grab (Trench) | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | <0.0020          | <0.0020               | <0.0020            | <14.9                   | 20.1                | 20.1             | <14.9               | 20.1               | 340              |
| SP-3 @ 6"                   | 6"                 | 2/7/2018    | Grab (Auger)  | In-Situ     | -                       | -               | -                     | -                   | -                | -                     | -                  | 3,400                   | 8,460               | 11,860           | 640                 | 12,500             | 581              |
| SP-3 Floor                  | 3'                 | 2/27/2019   | Grab (Trench) | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | <0.0020          | <0.0020               | <0.0020            | <15.0                   | 101                 | 101              | <15.0               | 101                | 17.5             |
| SP-3 N.                     | 2'                 | 2/27/2019   | Grab (Trench) | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | <0.0020          | <0.0020               | <0.0020            | <15.0                   | 25.0                | 25.0             | <15.0               | 25.0               | 102              |
| SP-4 @ 6"                   | 6"                 | 2/7/2018    | Grab (Auger)  | In-Situ     | -                       | -               | -                     | -                   | -                | -                     | -                  | 4,730                   | 10,900              | 15,630           | 805                 | 16,400             | 540              |
| SP-4 Floor                  | 2.5'               | 2/27/2019   | Grab (Trench) | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | 0.00634          | 0.00634               | 0.00634            | <15.0                   | 560                 | 560              | 97.7                | 658                | 180              |
| SP-4 E.                     | 2'                 | 2/27/2019   | Grab (Trench) | In-Situ     | <0.0020                 | <0.0020         | <0.0020               | <0.0040             | <0.0020          | <0.0020               | <0.0020            | <15.0                   | 46.1                | 46.1             | 35.0                | 81.1               | 318              |

NE = Not established

- = Not analyzed

Concentrations in **BOLD** exceed the NMOCD Closure Limit

**TABLE 2  
FIELD TESTS**

**OXY USA, INC.  
B HARDIN BATTERY  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE #: 1RP-4933**



| SAMPLE LOCATION             | SAMPLE DEPTH (BGS) | SAMPLE DATE | SOIL STATUS | HACH QUANTAB     | HANBY       |
|-----------------------------|--------------------|-------------|-------------|------------------|-------------|
|                             |                    |             |             | CHLORIDE (mg/Kg) | TPH (mg/Kg) |
| NMOCD Closure Limit (mg/kg) |                    |             |             | 10,000           | 2,500       |
|                             |                    |             |             |                  |             |
| SP-1 @ 6"                   | 6"                 | 2/7/2018    | In-Situ     | 608              | -           |
| Sp-1 @ 1'                   | 1'                 | 2/7/2018    | In-Situ     | 512              | -           |
| SP-1 @ 2'                   | 2'                 | 2/7/2018    | In-Situ     | Rejected         | Rejected    |
| SP-1 Floor                  | 3'                 | 2/27/2019   | In-Situ     | <128             | 861         |
| SP-1 S.                     | 2'                 | 2/27/2019   | In-Situ     | 196              | -           |
|                             |                    |             |             |                  |             |
| SP-2 @ 6"                   | 6"                 | 2/7/2018    | In-Situ     | 512              | -           |
| SP-2 @ 1'                   | 1'                 | 2/7/2018    | In-Situ     | 512              | -           |
| SP-2 @ 2'                   | 2'                 | 2/7/2018    | In-Situ     | 512              |             |
| SP-2 @ 3'                   | 3'                 | 2/7/2018    | In-Situ     | Rejected         | Rejected    |
| SP-2 Floor                  | 3'                 | 2/27/2019   | In-Situ     | <128             | 952         |
| SP-2 W.                     | 2'                 | 2/27/2019   | In-Situ     | 368              | -           |
|                             |                    |             |             |                  |             |
| SP-3 @ 6"                   | 6"                 | 2/7/2018    | In-Situ     | 464              | -           |
| SP-3 Floor                  | 3'                 | 2/27/2019   | In-Situ     | <128             | 810         |
| SP-3 N.                     | 2'                 | 2/27/2019   | In-Situ     | 140              | -           |
|                             |                    |             |             |                  |             |
| SP-4 @ 6"                   | 6"                 | 2/7/2018    | In-Situ     | 424              | -           |
| SP-4 Floor                  | 2.5'               | 2/27/2019   | In-Situ     | 292              | 965         |
| SP-4 E.                     | 2'                 | 2/27/2019   | In-Situ     | 404              | -           |
|                             |                    |             |             |                  |             |

# **Appendices**

**Appendix A**

**Release Notification &**

**Corrective Action (Form C-141)**

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

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

Form C-141  
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

|                 |                                |               |               |
|-----------------|--------------------------------|---------------|---------------|
| Name of Company | OCCIDENTAL PERMIAN LTD         | Contact       | WADE DITTRICH |
| Address         | PO BOX 4294; HOUSTON, TX 77210 | Telephone No. | 575-390-2828  |
| Facility Name   | B HARDIN BATTERY               | Facility Type | BATTERY       |

|               |     |               |     |         |                            |
|---------------|-----|---------------|-----|---------|----------------------------|
| Surface Owner | Fee | Mineral Owner | Fee | API No. | 30-025-36046 (closet well) |
|---------------|-----|---------------|-----|---------|----------------------------|

LOCATION OF RELEASE

|             |         |          |       |               |                  |               |                |        |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| P           | 13      | 18S      | 37E   |               |                  |               |                | LEA    |

Latitude 32.742831 Longitude -103.198829

NATURE OF RELEASE

|                                                               |                                                                                                           |                                           |                                   |                            |         |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------|----------------------------|---------|
| Type of Release                                               | OIL                                                                                                       | Volume of Release                         | 15 bbls oil                       | Volume Recovered           | 12 bbls |
| Source of Release                                             | 3 INCH STEEL CHECK VALVE ON PIPING OF HEATER TREATER                                                      | Date and Hour of Occurrence               | 1/9/2018                          | Date and Hour of Discovery |         |
| Was Immediate Notice Given?                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                          | OLIVIA YU-NMOCD; AMBER GROVES-SLO |                            |         |
| By Whom?                                                      | WADE DITTRICH                                                                                             | Date and Hour                             | 1-10-2018 @ 3:52 PM               |                            |         |
| Was a Watercourse Reached?                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                       | If YES, Volume Impacting the Watercourse. |                                   |                            |         |
| If a Watercourse was Impacted, Describe Fully.*               |                                                                                                           |                                           |                                   |                            |         |
| <div>RECEIVED<br/>By Olivia Yu at 3:44 pm, Jan 16, 2018</div> |                                                                                                           |                                           |                                   |                            |         |

Describe Cause of Problem and Remedial Action Taken.\*

Leak was caused by a failure on a 3 inch steel check valve on piping of heater treater. Valve was repaired and returned to service.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is 30 ft x 30 ft (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and the SLO.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

|                                                                                                |                                                                                                                             |                                              |  |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--|
| Signature:  | OIL CONSERVATION DIVISION                                                                                                   |                                              |  |
| Printed Name: WADE DITTRICH                                                                    | Approved by Environmental Specialist:  |                                              |  |
| Title: ENVIROMENTAL SPECIALIST                                                                 | Approval Date: 1/16/2018                                                                                                    | Expiration Date:                             |  |
| E-mail Address: wade_dittrich@oxy.com                                                          | Conditions of Approval:                                                                                                     | Attached <input checked="" type="checkbox"/> |  |
| Date: 1-12-18 Phone: 575-390-2828                                                              | see attached directive                                                                                                      |                                              |  |

1RP-4933

nOY1801657371

pOY1801657518

# **Appendix B**

## **Photographs**

**OXY USA, Inc. – B Hardin Battery**  
Unit Letter “P” (SE/SE), Section 13, Township 18S, Range 37E



Release (Looking Southwest)



Release (Looking Southeast)

**OXY USA, Inc. – B Hardin Battery**  
Unit Letter “P” (SE/SE), Section 13, Township 18S, Range 37E



Release (Looking Northeast)



Release (Looking Northwest)

# OXY USA, Inc. – B Hardin Battery

Unit Letter "P" (SE/SE), Section 13, Township 18S, Range 37E



Release Site 2/12/2019



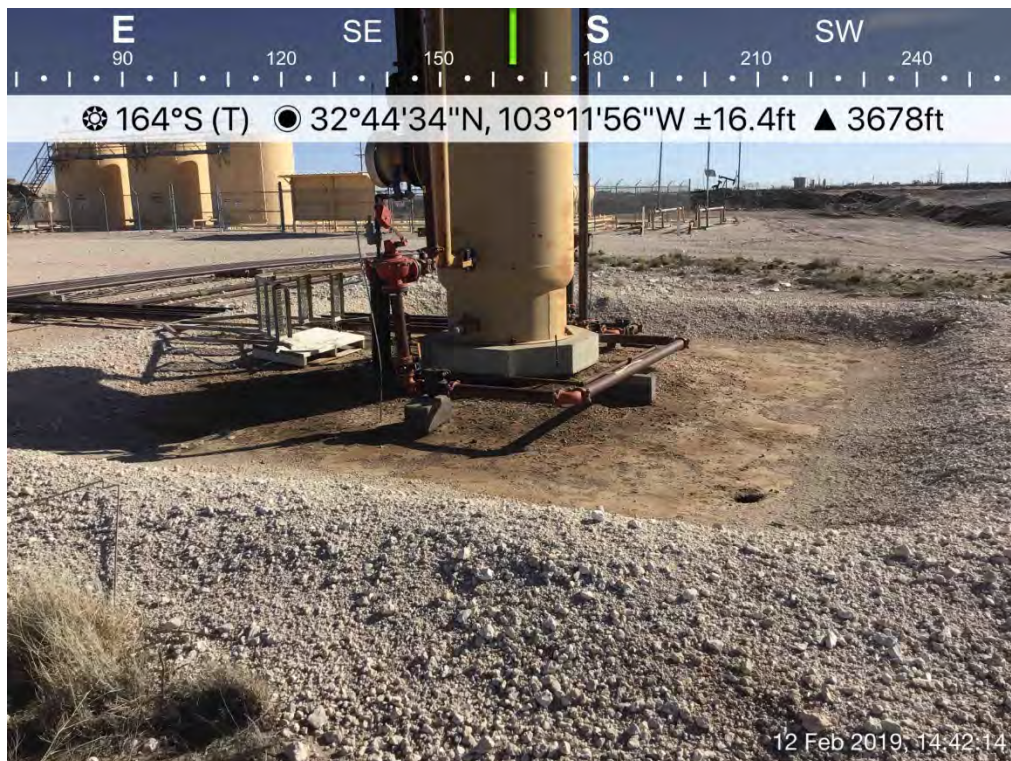
Release Site 2/12/2019

## OXY USA, Inc. – B Hardin Battery

Unit Letter "P" (SE/SE), Section 13, Township 18S, Range 37E



Release Site 2/12/2019



Release Site 2/12/2019

## OXY USA, Inc. – B Hardin Battery

Unit Letter "P" (SE/SE), Section 13, Township 18S, Range 37E



Release Site 2/12/2019



Release Site 2/12/2019

# **Appendix C**

## **Closure Criteria Justification**

**TABLE 3  
CLOSURE CRITERIA JUSTIFICATION**

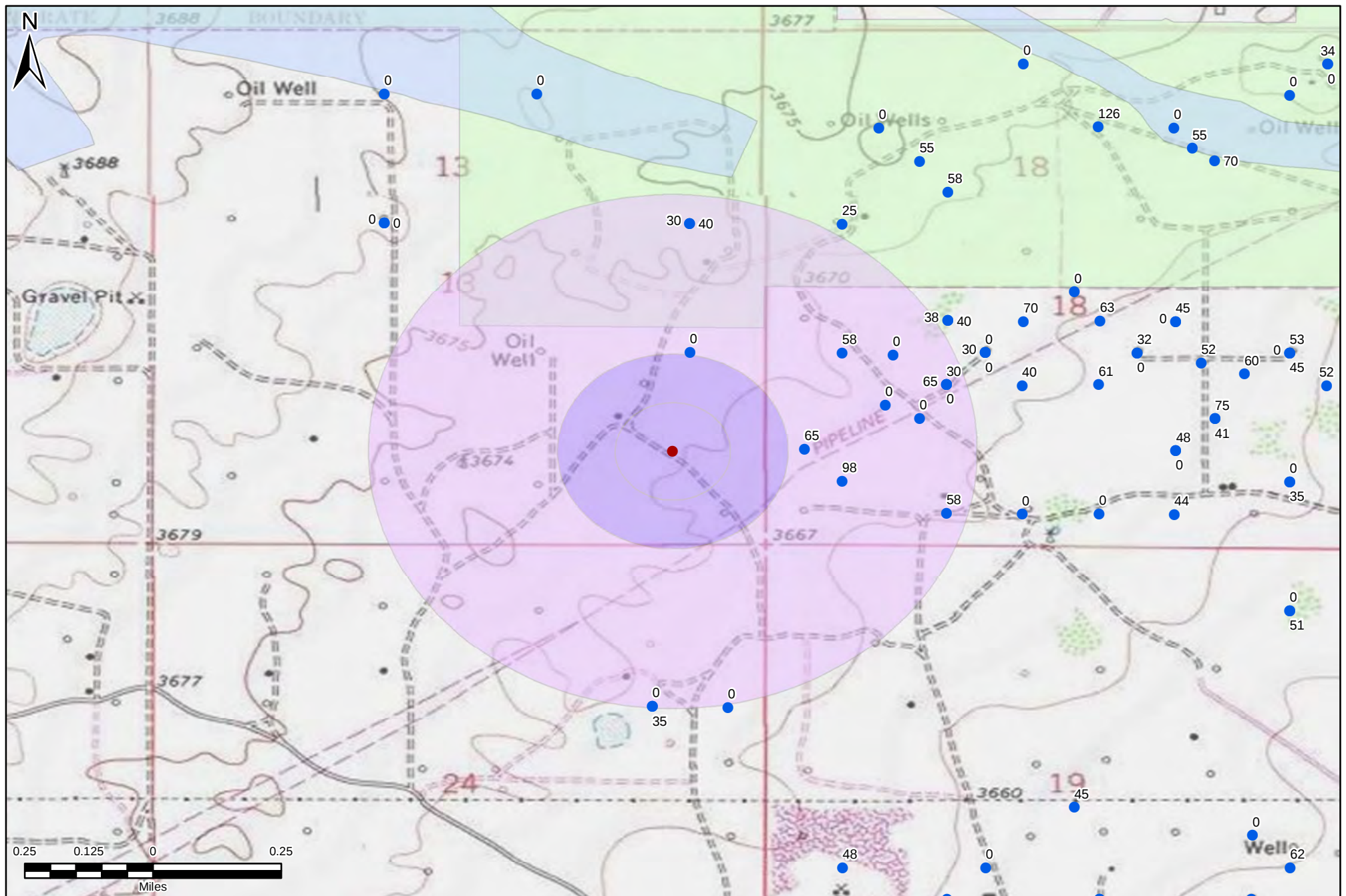
**OXY USA, INC.  
B HARDIN BATTERY  
LEA COUNTY, NEW MEXICO  
NMOCD REF. #: 1RP-4933**



| Groundwater, Water Wells & Other Water Sources                                                                                          |               |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Depth to groundwater (ft)?                                                                                                              | 53            |
| Horizontal distance (ft) from all water sources within 0.5 miles?                                                                       | 1,145 - 2,621 |
| Within 500' of a spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? | No            |
| Within 1000' of any fresh water well or spring?                                                                                         | No            |
| Surface Water                                                                                                                           |               |
| Horizontal distance (ft) to nearest significant watercourse?                                                                            | >1,000        |
| Within 300' of any continuously flowing watercourse or any other significant watercourse?                                               | No            |
| Within 200' of any lakebed, sinkhole or playa lake?                                                                                     | No            |
| Human-Occupied, Environmental & Other Areas                                                                                             |               |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field?                                          | No            |
| Within 300' of an occupied permanent residence, school, hospital, institution or church?                                                | No            |
| Within 300' of a wetland?                                                                                                               | No            |
| Within the area overlying a subsurface mine?                                                                                            | No            |
| Within an unstable area?                                                                                                                | No            |
| Within a 100-year floodplain?                                                                                                           | No            |

| Closure Criteria (mg/kg)* |      |           |       |          |
|---------------------------|------|-----------|-------|----------|
| Benzene                   | BTEX | GRO + DRO | TPH   | Chloride |
| 10                        | 50   | 1,000     | 2,500 | 10,000   |

\*Numerical limits or natural background level, whichever is greater



|               |                          |
|---------------|--------------------------|
| <b>Legend</b> |                          |
|               | 1,000-ft Radius          |
|               | 0.5-mi Radius            |
|               | FEMA 100-Year Flood Zone |
|               | Municipal Boundary       |
|               | B Hardin Battery         |
|               | NMOSE Depth to Water     |

**Figure 3**  
**Vicinity & Wellhead Protection Area Map**  
**OXY USA, Inc.**  
**B Hardin Battery**  
**Lea County, New Mexico**  
**NMOCD Reference #: 1RP-4933**



Trinity Oilfield Services & Rentals, LLC  
 P.O. Box 2587  
 Hobbs, NM 88241

|                |                    |
|----------------|--------------------|
| Drawn By: BJA  | Checked By: JEH    |
| March 18, 2019 | Scale: 1" = 0.25mi |



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

No records found.

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 668755.94

**Northing (Y):** 3624212.71

**Radius:** 304.8  
(1,000 ft)



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                   | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| <a href="#">L 09278</a>      | L            | LE    |        | 1    | 3    | 3   | 18  | 18S | 38E | 669105 | 3624226* | 349      | 125        | 65          | 60           |
| <a href="#">L 04513</a>      | L            | LE    |        |      | 3    | 3   | 18  | 18S | 38E | 669206 | 3624127* | 458      | 120        | 98          | 22           |
| <a href="#">L 08107</a>      | L            | LE    |        | 1    | 3    |     | 18  | 18S | 38E | 669199 | 3624529* | 544      | 120        | 58          | 62           |
| <a href="#">L 13669 POD1</a> | L            | LE    |        | 4    | 1    | 3   | 18  | 18S | 38E | 669315 | 3624367  | 580      | 202        |             |              |
| <a href="#">L 10933</a>      | L            | LE    |        |      |      | 3   | 18  | 18S | 38E | 669407 | 3624328* | 661      | 158        |             |              |
| <a href="#">L 03112</a>      | L            | LE    |        | 4    | 2    | 13  | 18S |     | 37E | 668789 | 3624927* | 715      | 105        | 30          | 75           |
| <a href="#">L 06511</a>      | L            | LE    |        | 4    | 2    | 13  | 18S |     | 37E | 668789 | 3624927* | 715      | 150        | 40          | 110          |
| <a href="#">L 01500</a>      | L            | LE    |        | 3    | 4    | 3   | 18  | 18S | 38E | 669483 | 3624032* | 749      | 80         | 58          | 22           |
| <a href="#">L 04111</a>      | L            | LE    |        | 3    | 2    | 3   | 18  | 18S | 38E | 669476 | 3624435* | 753      | 92         | 30          | 62           |
| <a href="#">L 09826</a>      | L            | LE    |        | 3    | 2    | 3   | 18  | 18S | 38E | 669476 | 3624435* | 753      | 156        | 65          | 91           |
| <a href="#">L 11111</a>      | L            | LE    |        | 3    | 2    | 3   | 18  | 18S | 38E | 669476 | 3624435* | 753      | 158        |             |              |
| <a href="#">L 06487</a>      | L            | LE    |        | 1    | 4    | 2   | 24  | 18S | 37E | 668716 | 3623414* | 799      | 121        | 35          | 86           |

Average Depth to Water: **53 feet**

Minimum Depth: **30 feet**

Maximum Depth: **98 feet**

Record Count: 12

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 668755.94

**Northing (Y):** 3624212.71

**Radius:** 804.67

(0.5 mile)

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

# **Appendix D**

## **Laboratory Analytical Reports**



# Certificate of Analysis Summary 575988

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: B. Hardin Battery



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs, NM

Date Received in Lab: Fri Feb-09-18 10:00 am

Report Date: 23-FEB-18

Project Manager: Holly Taylor

| Analysis Requested  | Lab Id:                           | 575988-001      | 575988-002      | 575988-003      | 575988-004       | 575988-005      | 575988-006      |
|---------------------|-----------------------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|
|                     | Field Id:                         | SP-1 @ 6"       | SP-1 @ 1'       | SP-2 @ 6"       | SP-2 @ 2'        | SP-3 @ 6"       | SP-4 @ 6"       |
|                     | Depth:                            |                 |                 |                 |                  |                 |                 |
|                     | Matrix:                           | SOIL            | SOIL            | SOIL            | SOIL             | SOIL            | SOIL            |
|                     | Sampled:                          | Feb-07-18 13:35 | Feb-07-18 13:52 | Feb-07-18 13:46 | Feb-07-18 14:14  | Feb-07-18 14:20 | Feb-07-18 14:25 |
| BTEX by EPA 8021B   | Extracted:                        |                 |                 |                 | Feb-17-18 07:45  |                 |                 |
|                     | Analyzed:                         |                 |                 |                 | Feb-17-18 18:14  |                 |                 |
|                     | Units/RL:                         |                 |                 |                 | mg/kg RL         |                 |                 |
|                     | Benzene                           |                 |                 |                 | <0.00200 0.00200 |                 |                 |
|                     | Toluene                           |                 |                 |                 | <0.00200 0.00200 |                 |                 |
|                     | Ethylbenzene                      |                 |                 |                 | <0.00200 0.00200 |                 |                 |
|                     | m,p-Xylenes                       |                 |                 |                 | <0.00399 0.00399 |                 |                 |
|                     | o-Xylene                          |                 |                 |                 | <0.00200 0.00200 |                 |                 |
| Chloride by EPA 300 | Extracted:                        | Feb-16-18 17:45 | Feb-16-18 17:45 | Feb-17-18 10:30 | Feb-17-18 10:30  | Feb-17-18 10:30 | Feb-17-18 10:30 |
|                     | Analyzed:                         | Feb-16-18 20:44 | Feb-16-18 20:49 | Feb-17-18 14:11 | Feb-17-18 14:16  | Feb-17-18 13:29 | Feb-17-18 13:45 |
|                     | Units/RL:                         | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL        | mg/kg RL        |
|                     | Chloride                          | 642 4.98        | 389 4.95        | 415 5.00        | 790 5.00         | 581 5.00        | 540 5.00        |
|                     |                                   |                 |                 |                 |                  |                 |                 |
|                     |                                   |                 |                 |                 |                  |                 |                 |
|                     |                                   |                 |                 |                 |                  |                 |                 |
|                     |                                   |                 |                 |                 |                  |                 |                 |
| TPH By SW8015 Mod   | Extracted:                        | Feb-12-18 16:00 | Feb-12-18 16:00 | Feb-12-18 16:00 | Feb-12-18 16:00  | Feb-13-18 07:00 | Feb-13-18 07:00 |
|                     | Analyzed:                         | Feb-13-18 04:27 | Feb-13-18 04:47 | Feb-13-18 06:52 | Feb-13-18 05:26  | Feb-13-18 12:45 | Feb-13-18 13:05 |
|                     | Units/RL:                         | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL        | mg/kg RL        |
|                     | Gasoline Range Hydrocarbons (GRO) | 947 15.0        | 1730 15.0       | 3180 75.0       | 15.6 15.0        | 3400 74.8       | 4730 74.8       |
|                     | Diesel Range Organics (DRO)       | 2330 15.0       | 3980 15.0       | 6800 75.0       | 94.3 15.0        | 8460 74.8       | 10900 74.8      |
|                     | Oil Range Hydrocarbons (ORO)      | 170 15.0        | 317 15.0        | 473 75.0        | <15.0 15.0       | 640 74.8        | 805 74.8        |
|                     | Total TPH                         | 3450 15.0       | 6030 15.0       | 10500 75.0      | 110 15.0         | 12500 74.8      | 16400 74.8      |
|                     |                                   |                 |                 |                 |                  |                 |                 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor  
Project Manager

**Analytical Report 575988**  
**for**  
**Trinity Oilfield Services & Rentals, LLC**

**Project Manager: Ben Arguijo**

**B. Hardin Battery**

**23-FEB-18**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



23-FEB-18

Project Manager: **Ben Arguijo**  
**Trinity Oilfield Services & Rentals, LLC**  
PO BOX 2587  
Hobbs, NM 88241

Reference: XENCO Report No(s): **575988**  
**B. Hardin Battery**  
Project Address: Hobbs, NM

**Ben Arguijo:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 575988. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 575988 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Holly Taylor**  
Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



## Sample Cross Reference 575988



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

B. Hardin Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SP-1 @ 6" | S      | 02-07-18 13:35 |              | 575988-001    |
| SP-1 @ 1' | S      | 02-07-18 13:52 |              | 575988-002    |
| SP-2 @ 6" | S      | 02-07-18 13:46 |              | 575988-003    |
| SP-2 @ 2' | S      | 02-07-18 14:14 |              | 575988-004    |
| SP-3 @ 6" | S      | 02-07-18 14:20 |              | 575988-005    |
| SP-4 @ 6" | S      | 02-07-18 14:25 |              | 575988-006    |



## CASE NARRATIVE

**Client Name:** *Trinity Oilfield Services & Rentals, LLC*

**Project Name:** *B. Hardin Battery*

Project ID:

Work Order Number(s): 575988

Report Date: 23-FEB-18

Date Received: 02/09/2018

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3041449 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



# Certificate of Analytical Results 575988



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B. Hardin Battery

Sample Id: **SP-1 @ 6"**

Matrix: Soil

Date Received: 02.09.18 10.00

Lab Sample Id: 575988-001

Date Collected: 02.07.18 13.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.16.18 17.45

Basis: Wet Weight

Seq Number: 3041419

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 642    | 4.98 | mg/kg | 02.16.18 20.44 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.12.18 16.00

Basis: Wet Weight

Seq Number: 3040881

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 947        | 15.0  | mg/kg  | 02.13.18 04.27 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 2330       | 15.0  | mg/kg  | 02.13.18 04.27 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 170        | 15.0  | mg/kg  | 02.13.18 04.27 |      | 1   |
| Total TPH                         | PHC635     | 3450       | 15.0  | mg/kg  | 02.13.18 04.27 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 104        | %     | 70-135 | 02.13.18 04.27 |      |     |
| o-Terphenyl                       | 84-15-1    | 88         | %     | 70-135 | 02.13.18 04.27 |      |     |



# Certificate of Analytical Results 575988



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B. Hardin Battery

Sample Id: **SP-1 @ 1'**  
Lab Sample Id: 575988-002

Matrix: Soil  
Date Collected: 02.07.18 13.52

Date Received: 02.09.18 10.00

Analytical Method: Chloride by EPA 300  
Tech: OJS  
Analyst: OJS  
Seq Number: 3041419

Prep Method: E300P  
% Moisture:  
Date Prep: 02.16.18 17.45  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 389    | 4.95 | mg/kg | 02.16.18 20.49 |      | 1   |

Analytical Method: TPH By SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3040881

Prep Method: TX1005P  
% Moisture:  
Date Prep: 02.12.18 16.00  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 1730       | 15.0  | mg/kg  | 02.13.18 04.47 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 3980       | 15.0  | mg/kg  | 02.13.18 04.47 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 317        | 15.0  | mg/kg  | 02.13.18 04.47 |      | 1   |
| Total TPH                         | PHC635     | 6030       | 15.0  | mg/kg  | 02.13.18 04.47 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 107        | %     | 70-135 | 02.13.18 04.47 |      |     |
| o-Terphenyl                       | 84-15-1    | 90         | %     | 70-135 | 02.13.18 04.47 |      |     |



# Certificate of Analytical Results 575988



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B. Hardin Battery

Sample Id: **SP-2 @ 6"**

Matrix: Soil

Date Received: 02.09.18 10.00

Lab Sample Id: 575988-003

Date Collected: 02.07.18 13.46

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.17.18 10.30

Basis: Wet Weight

Seq Number: 3041438

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 415    | 5.00 | mg/kg | 02.17.18 14.11 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.12.18 16.00

Basis: Wet Weight

Seq Number: 3040881

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 3180   | 75.0 | mg/kg | 02.13.18 06.52 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 6800   | 75.0 | mg/kg | 02.13.18 06.52 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 473    | 75.0 | mg/kg | 02.13.18 06.52 |      | 5   |
| Total TPH                         | PHC635     | 10500  | 75.0 | mg/kg | 02.13.18 06.52 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 113        | %     | 70-135 | 02.13.18 06.52 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 02.13.18 06.52 |      |



# Certificate of Analytical Results 575988



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B. Hardin Battery

Sample Id: **SP-2 @ 2'**

Matrix: Soil

Date Received: 02.09.18 10.00

Lab Sample Id: 575988-004

Date Collected: 02.07.18 14.14

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.17.18 10.30

Basis: Wet Weight

Seq Number: 3041438

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 790    | 5.00 | mg/kg | 02.17.18 14.16 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.12.18 16.00

Basis: Wet Weight

Seq Number: 3040881

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 15.6       | 15.0  | mg/kg  | 02.13.18 05.26 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 94.3       | 15.0  | mg/kg  | 02.13.18 05.26 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 02.13.18 05.26 | U    | 1   |
| Total TPH                         | PHC635     | 110        | 15.0  | mg/kg  | 02.13.18 05.26 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 103        | %     | 70-135 | 02.13.18 05.26 |      |     |
| o-Terphenyl                       | 84-15-1    | 103        | %     | 70-135 | 02.13.18 05.26 |      |     |



# Certificate of Analytical Results 575988



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B. Hardin Battery

Sample Id: **SP-2 @ 2'**

Matrix: Soil

Date Received: 02.09.18 10.00

Lab Sample Id: 575988-004

Date Collected: 02.07.18 14.14

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.17.18 07.45

Basis: Wet Weight

Seq Number: 3041449

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.17.18 18.14       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.17.18 18.14       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.17.18 18.14       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 02.17.18 18.14       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.17.18 18.14       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.17.18 18.14       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.17.18 18.14       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 98                | %            | 80-120        | 02.17.18 18.14       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 86                | %            | 80-120        | 02.17.18 18.14       |             |     |



# Certificate of Analytical Results 575988



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B. Hardin Battery

Sample Id: **SP-3 @ 6"**

Matrix: Soil

Date Received: 02.09.18 10.00

Lab Sample Id: 575988-005

Date Collected: 02.07.18 14.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.17.18 10.30

Basis: Wet Weight

Seq Number: 3041438

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 581    | 5.00 | mg/kg | 02.17.18 13.29 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.13.18 07.00

Basis: Wet Weight

Seq Number: 3041032

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 3400   | 74.8 | mg/kg | 02.13.18 12.45 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 8460   | 74.8 | mg/kg | 02.13.18 12.45 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 640    | 74.8 | mg/kg | 02.13.18 12.45 |      | 5   |
| Total TPH                         | PHC635     | 12500  | 74.8 | mg/kg | 02.13.18 12.45 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 96         | %     | 70-135 | 02.13.18 12.45 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 02.13.18 12.45 |      |



# Certificate of Analytical Results 575988



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B. Hardin Battery

Sample Id: **SP-4 @ 6"**

Matrix: Soil

Date Received: 02.09.18 10.00

Lab Sample Id: 575988-006

Date Collected: 02.07.18 14.25

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.17.18 10.30

Basis: Wet Weight

Seq Number: 3041438

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 540    | 5.00 | mg/kg | 02.17.18 13.45 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.13.18 07.00

Basis: Wet Weight

Seq Number: 3041032

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 4730   | 74.8 | mg/kg | 02.13.18 13.05 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 10900  | 74.8 | mg/kg | 02.13.18 13.05 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 805    | 74.8 | mg/kg | 02.13.18 13.05 |      | 5   |
| Total TPH                         | PHC635     | 16400  | 74.8 | mg/kg | 02.13.18 13.05 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 02.13.18 13.05 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 02.13.18 13.05 |      |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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|----------------|----------------|
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| (210) 509-3334 | (210) 509-3335 |
| (432) 563-1800 | (432) 563-1713 |
| (602) 437-0330 |                |



## Trinity Oilfield Services &amp; Rentals, LLC

## B. Hardin Battery

## Analytical Method: Chloride by EPA 300

Seq Number: 3041419

MB Sample Id: 7639324-1-BLK

Matrix: Solid

LCS Sample Id: 7639324-1-BKS

Prep Method: E300P

Date Prep: 02.16.18

LCSD Sample Id: 7639324-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 271        | 108      | 275         | 110       | 90-110 | 1    | 20        | mg/kg | 02.16.18 18:26 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3041438

MB Sample Id: 7639327-1-BLK

Matrix: Solid

LCS Sample Id: 7639327-1-BKS

Prep Method: E300P

Date Prep: 02.17.18

LCSD Sample Id: 7639327-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 256        | 102      | 267         | 107       | 90-110 | 4    | 20        | mg/kg | 02.17.18 11:37 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3041419

Parent Sample Id: 575953-019

Matrix: Soil

MS Sample Id: 575953-019 S

Prep Method: E300P

Date Prep: 02.16.18

MSD Sample Id: 575953-019 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <4.98         | 249          | 253       | 102     | 251        | 101      | 90-110 | 1    | 20        | mg/kg | 02.16.18 18:42 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3041419

Parent Sample Id: 575953-029

Matrix: Soil

MS Sample Id: 575953-029 S

Prep Method: E300P

Date Prep: 02.16.18

MSD Sample Id: 575953-029 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 587           | 250          | 838       | 100     | 835        | 99       | 90-110 | 0    | 20        | mg/kg | 02.16.18 19:56 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3041438

Parent Sample Id: 575955-002

Matrix: Soil

MS Sample Id: 575955-002 S

Prep Method: E300P

Date Prep: 02.17.18

MSD Sample Id: 575955-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 756           | 250          | 1070      | 126     | 1030       | 110      | 90-110 | 4    | 20        | mg/kg | 02.17.18 11:53 | X    |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * | (C - E) / (C + E) |$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

Trinity Oilfield Services & Rentals, LLC  
B. Hardin Battery

## Analytical Method: Chloride by EPA 300

Seq Number: 3041438

Parent Sample Id: 576012-003

Matrix: Soil

MS Sample Id: 576012-003 S

Prep Method: E300P

Date Prep: 02.17.18

MSD Sample Id: 576012-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 20.9          | 250          | 272       | 100     | 311        | 116      | 90-110 | 13   | 20        | mg/kg | 02.17.18 13:13 | X    |

## Analytical Method: TPH By SW8015 Mod

Seq Number: 3040881

MB Sample Id: 7639020-1-BLK

Matrix: Solid

LCS Sample Id: 7639020-1-BKS

Prep Method: TX1005P

Date Prep: 02.12.18

LCSD Sample Id: 7639020-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 877        | 88       | 923         | 92        | 70-135 | 5    | 35        | mg/kg | 02.12.18 20:57 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 941        | 94       | 1040        | 104       | 70-135 | 10   | 35        | mg/kg | 02.12.18 20:57 |      |

## Surrogate

|                | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 83      |         | 102      |          | 119       |           | 70-135 | %     | 02.12.18 20:57 |
| o-Terphenyl    | 86      |         | 98       |          | 109       |           | 70-135 | %     | 02.12.18 20:57 |

## Analytical Method: TPH By SW8015 Mod

Seq Number: 3041032

MB Sample Id: 7639062-1-BLK

Matrix: Solid

LCS Sample Id: 7639062-1-BKS

Prep Method: TX1005P

Date Prep: 02.13.18

LCSD Sample Id: 7639062-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 1050       | 105      | 913         | 91        | 70-135 | 14   | 35        | mg/kg | 02.13.18 09:22 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1150       | 115      | 985         | 99        | 70-135 | 15   | 35        | mg/kg | 02.13.18 09:22 |      |

## Surrogate

|                | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 96      |         | 122      |          | 106       |           | 70-135 | %     | 02.13.18 09:22 |
| o-Terphenyl    | 100     |         | 123      |          | 104       |           | 70-135 | %     | 02.13.18 09:22 |

## Analytical Method: TPH By SW8015 Mod

Seq Number: 3040881

Parent Sample Id: 575585-001

Matrix: Soil

MS Sample Id: 575585-001 S

Prep Method: TX1005P

Date Prep: 02.12.18

MSD Sample Id: 575585-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0         | 1000         | 929       | 93      | 900        | 90       | 70-135 | 3    | 35        | mg/kg | 02.12.18 21:56 |      |
| Diesel Range Organics (DRO)       | <15.0         | 1000         | 1040      | 104     | 1010       | 101      | 70-135 | 3    | 35        | mg/kg | 02.12.18 21:56 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 99      |         | 112      |          | 70-135 | %     | 02.12.18 21:56 |
| o-Terphenyl    | 108     |         | 103      |          | 70-135 | %     | 02.12.18 21:56 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery $[D] = 100 * (C-A) / B$   
 $RPD = 200 * | (C-E) / (C+E) |$   
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD ResultMS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

Trinity Oilfield Services & Rentals, LLC  
B. Hardin Battery

Analytical Method: TPH By SW8015 Mod

Seq Number: 3041032

Parent Sample Id: 576035-001

Matrix: Soil

MS Sample Id: 576035-001 S

Prep Method: TX1005P

Date Prep: 02.13.18

MSD Sample Id: 576035-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | 8940          | 1000         | 8750      | 0       | 9300       | 36       | 70-135 | 6    | 35        | mg/kg | 02.14.18 04:18 | X    |
| Diesel Range Organics (DRO)       | 8360          | 1000         | 9490      | 113     | 9860       | 150      | 70-135 | 4    | 35        | mg/kg | 02.14.18 04:18 | X    |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 106     |         | 100      |          | 70-135 | %     | 02.14.18 04:18 |
| o-Terphenyl    | 101     |         | 101      |          | 70-135 | %     | 02.14.18 04:18 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3041449

MB Sample Id: 7639375-1-BLK

Matrix: Solid

LCS Sample Id: 7639375-1-BKS

Prep Method: SW5030B

Date Prep: 02.17.18

LCSD Sample Id: 7639375-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201  | 0.101        | 0.0819     | 81       | 0.0765      | 77        | 70-130 | 7    | 35        | mg/kg | 02.17.18 08:39 |      |
| Toluene      | <0.00201  | 0.101        | 0.0854     | 85       | 0.0805      | 81        | 70-130 | 6    | 35        | mg/kg | 02.17.18 08:39 |      |
| Ethylbenzene | <0.00201  | 0.101        | 0.0962     | 95       | 0.0893      | 89        | 71-129 | 7    | 35        | mg/kg | 02.17.18 08:39 |      |
| m,p-Xylenes  | <0.00402  | 0.201        | 0.190      | 95       | 0.177       | 89        | 70-135 | 7    | 35        | mg/kg | 02.17.18 08:39 |      |
| o-Xylene     | <0.00201  | 0.101        | 0.0961     | 95       | 0.0902      | 90        | 71-133 | 6    | 35        | mg/kg | 02.17.18 08:39 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 81      |         | 84       |          | 88        |           | 80-120 | %     | 02.17.18 08:39 |
| 4-Bromofluorobenzene | 91      |         | 110      |          | 116       |           | 80-120 | %     | 02.17.18 08:39 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3041449

Parent Sample Id: 576187-001

Matrix: Soil

MS Sample Id: 576187-001 S

Prep Method: SW5030B

Date Prep: 02.17.18

MSD Sample Id: 576187-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201      | 0.101        | 0.0765    | 76      | 0.0727     | 73       | 70-130 | 5    | 35        | mg/kg | 02.17.18 09:17 |      |
| Toluene      | <0.00201      | 0.101        | 0.0794    | 79      | 0.0761     | 76       | 70-130 | 4    | 35        | mg/kg | 02.17.18 09:17 |      |
| Ethylbenzene | <0.00201      | 0.101        | 0.0833    | 82      | 0.0800     | 80       | 71-129 | 4    | 35        | mg/kg | 02.17.18 09:17 |      |
| m,p-Xylenes  | <0.00402      | 0.201        | 0.164     | 82      | 0.158      | 79       | 70-135 | 4    | 35        | mg/kg | 02.17.18 09:17 |      |
| o-Xylene     | <0.00201      | 0.101        | 0.0801    | 79      | 0.0803     | 80       | 71-133 | 0    | 35        | mg/kg | 02.17.18 09:17 |      |

## Surrogate

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 83      |         | 82       |          | 80-120 | %     | 02.17.18 09:17 |
| 4-Bromofluorobenzene | 110     |         | 117      |          | 80-120 | %     | 02.17.18 09:17 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$   
 $RPD = 200 * | (C - E) / (C + E) |$   
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD ResultMS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec





**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** Trinity Oilfield Services & Rentals, LLC

**Date/ Time Received:** 02/09/2018 10:00:00 AM

**Work Order #:** 575988

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 2.2      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A      |
| #5 Custody Seals intact on sample bottles?              | N/A      |
| #6 *Custody Seals Signed and dated?                     | N/A      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

**Checklist completed by:**

Shawnee Smith

Date: 02/09/2018

**Checklist reviewed by:**

Holly Taylor

Date: 02/12/2018



# Certificate of Analysis Summary 616451

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: B Hardin Battery



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Tue Mar-05-19 11:30 am

Report Date: 12-MAR-19

Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 616451-001       | 616451-002       | 616451-003       | 616451-004       | 616451-005       | 616451-006       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <i>Field Id:</i>  | SP-1 Floor       | SP-1 S.          | SP-2 Floor       | SP-2 W.          | SP-3 Floor       | SP-3 N.          |
|                                    | <i>Depth:</i>     |                  |                  |                  |                  |                  |                  |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <i>Sampled:</i>   | Feb-27-19 09:08  | Feb-27-19 09:10  | Feb-27-19 10:18  | Feb-27-19 10:25  | Feb-27-19 13:15  | Feb-27-19 13:18  |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Mar-08-19 17:00  | Mar-08-19 17:00  | Mar-08-19 17:00  | Mar-08-19 17:00  | Mar-08-19 17:00  | Mar-08-19 17:00  |
|                                    | <i>Analyzed:</i>  | Mar-09-19 12:38  | Mar-09-19 12:57  | Mar-09-19 13:16  | Mar-09-19 13:36  | Mar-09-19 13:55  | Mar-09-19 14:14  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                            |                   | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 |
| Toluene                            |                   | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 |
| Ethylbenzene                       |                   | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 |
| m,p-Xylenes                        |                   | <0.00400 0.00400 | <0.00398 0.00398 | <0.00401 0.00401 | <0.00400 0.00400 | <0.00398 0.00398 | <0.00402 0.00402 |
| o-Xylene                           |                   | 0.0104 0.00200   | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 |
| Total Xylenes                      |                   | 0.0104 0.00200   | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 |
| Total BTEX                         |                   | 0.0104 0.00200   | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Mar-06-19 11:15  | Mar-06-19 11:15  | Mar-06-19 11:15  | Mar-06-19 11:15  | Mar-06-19 11:15  | Mar-06-19 11:15  |
|                                    | <i>Analyzed:</i>  | Mar-06-19 18:08  | Mar-06-19 18:14  | Mar-06-19 18:20  | Mar-06-19 18:46  | Mar-06-19 19:06  | Mar-06-19 19:12  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | 78.3 4.95        | 127 4.99         | 19.1 5.00        | 340 5.00         | 17.5 4.99        | 102 4.96         |
| <b>TPH By SW8015 Mod</b>           | <i>Extracted:</i> | Mar-08-19 15:00  | Mar-08-19 15:00  | Mar-08-19 15:00  | Mar-08-19 15:00  | Mar-08-19 15:00  | Mar-08-19 15:00  |
|                                    | <i>Analyzed:</i>  | Mar-09-19 03:48  | Mar-09-19 11:47  | Mar-09-19 05:08  | Mar-09-19 05:28  | Mar-09-19 05:48  | Mar-09-19 06:08  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |                   | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       | <14.9 14.9       | <15.0 15.0       | <15.0 15.0       |
| Diesel Range Organics (DRO)        |                   | 228 15.0         | 65.3 15.0        | 19.6 15.0        | 20.1 14.9        | 101 15.0         | 25.0 15.0        |
| Motor Oil Range Hydrocarbons (MRO) |                   | 42.6 15.0        | 46.1 15.0        | <15.0 15.0       | <14.9 14.9       | <15.0 15.0       | <15.0 15.0       |
| Total TPH                          |                   | 271 15.0         | 111 15.0         | 19.6 15.0        | 20.1 14.9        | 101 15.0         | 25.0 15.0        |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 616451

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: B Hardin Battery



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Tue Mar-05-19 11:30 am

Report Date: 12-MAR-19

Project Manager: Holly Taylor

|                                    |                   |                  |                  |  |  |  |  |
|------------------------------------|-------------------|------------------|------------------|--|--|--|--|
| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 616451-007       | 616451-008       |  |  |  |  |
|                                    | <b>Field Id:</b>  | SP-4 Floor       | SP-4 E.          |  |  |  |  |
|                                    | <b>Depth:</b>     |                  |                  |  |  |  |  |
|                                    | <b>Matrix:</b>    | SOIL             | SOIL             |  |  |  |  |
|                                    | <b>Sampled:</b>   | Feb-27-19 11:23  | Feb-27-19 11:20  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> | Mar-08-19 17:00  | Mar-08-19 17:00  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | Mar-09-19 14:33  | Mar-09-19 14:52  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         |  |  |  |  |
|                                    |                   |                  |                  |  |  |  |  |
| Benzene                            |                   | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |  |
| Toluene                            |                   | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |  |
| Ethylbenzene                       |                   | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |  |
| m,p-Xylenes                        |                   | <0.00398 0.00398 | <0.00399 0.00399 |  |  |  |  |
| o-Xylene                           |                   | 0.00634 0.00199  | <0.00200 0.00200 |  |  |  |  |
| Total Xylenes                      |                   | 0.00634 0.00199  | <0.00200 0.00200 |  |  |  |  |
| Total BTEX                         |                   | 0.00634 0.00199  | <0.00200 0.00200 |  |  |  |  |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> | Mar-06-19 11:15  | Mar-06-19 11:15  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | Mar-06-19 19:19  | Mar-06-19 19:25  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         |  |  |  |  |
|                                    |                   |                  |                  |  |  |  |  |
| Chloride                           |                   | 180 4.97         | 318 4.95         |  |  |  |  |
| <b>TPH By SW8015 Mod</b>           | <b>Extracted:</b> | Mar-08-19 15:00  | Mar-08-19 15:00  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | Mar-09-19 06:28  | Mar-09-19 12:06  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         |  |  |  |  |
|                                    |                   |                  |                  |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO)  |                   | <15.0 15.0       | <15.0 15.0       |  |  |  |  |
| Diesel Range Organics (DRO)        |                   | 560 15.0         | 46.1 15.0        |  |  |  |  |
| Motor Oil Range Hydrocarbons (MRO) |                   | 97.7 15.0        | 35.0 15.0        |  |  |  |  |
| Total TPH                          |                   | 658 15.0         | 81.1 15.0        |  |  |  |  |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.  
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.  
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.  
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor  
Project Manager

# **Analytical Report 616451**

**for**

## **Trinity Oilfield Services & Rentals, LLC**

**Project Manager: Ben Arguijo**

**B Hardin Battery**

**12-MAR-19**

Collected By: Client



**1211 W. Florida Ave**  
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)  
Xenco-Atlanta (LELAP Lab ID #04176)  
Xenco-Tampa: Florida (E87429), North Carolina (483)  
Xenco-Lakeland: Florida (E84098)



12-MAR-19

Project Manager: **Ben Arguijo**  
**Trinity Oilfield Services & Rentals, LLC**  
PO BOX 2587  
Hobbs, NM 88241

Reference: XENCO Report No(s): **616451**  
**B Hardin Battery**  
Project Address:

**Ben Arguijo:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 616451. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 616451 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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**Holly Taylor**  
Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



## Sample Cross Reference 616451



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

B Hardin Battery

| Sample Id  | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------|--------|----------------|--------------|---------------|
| SP-1 Floor | S      | 02-27-19 09:08 |              | 616451-001    |
| SP-1 S.    | S      | 02-27-19 09:10 |              | 616451-002    |
| SP-2 Floor | S      | 02-27-19 10:18 |              | 616451-003    |
| SP-2 W.    | S      | 02-27-19 10:25 |              | 616451-004    |
| SP-3 Floor | S      | 02-27-19 13:15 |              | 616451-005    |
| SP-3 N.    | S      | 02-27-19 13:18 |              | 616451-006    |
| SP-4 Floor | S      | 02-27-19 11:23 |              | 616451-007    |
| SP-4 E.    | S      | 02-27-19 11:20 |              | 616451-008    |



## CASE NARRATIVE

**Client Name:** *Trinity Oilfield Services & Rentals, LLC*

**Project Name:** *B Hardin Battery*

Project ID:

Work Order Number(s): 616451

Report Date: 12-MAR-19

Date Received: 03/05/2019

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3081756 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 616451-005.



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-1 Floor**

Matrix: Soil

Date Received: 03.05.19 11.30

Lab Sample Id: 616451-001

Date Collected: 02.27.19 09.08

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.06.19 11.15

Basis: Wet Weight

Seq Number: 3081358

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 78.3   | 4.95 | mg/kg | 03.06.19 18.08 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.08.19 15.00

Basis: Wet Weight

Seq Number: 3081691

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0  | 15.0 | mg/kg | 03.09.19 03.48 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 228    | 15.0 | mg/kg | 03.09.19 03.48 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 42.6   | 15.0 | mg/kg | 03.09.19 03.48 |      | 1   |
| Total TPH                          | PHC635     | 271    | 15.0 | mg/kg | 03.09.19 03.48 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 94         | %     | 70-135 | 03.09.19 03.48 |      |
| o-Terphenyl    | 84-15-1    | 96         | %     | 70-135 | 03.09.19 03.48 |      |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-1 Floor**

Matrix: Soil

Date Received: 03.05.19 11.30

Lab Sample Id: 616451-001

Date Collected: 02.27.19 09.08

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.08.19 17.00

Basis: Wet Weight

Seq Number: 3081756

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 03.09.19 12.38       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 03.09.19 12.38       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 03.09.19 12.38       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 03.09.19 12.38       | U           | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.0104</b>     | 0.00200      | mg/kg         | 03.09.19 12.38       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.0104</b>     | 0.00200      | mg/kg         | 03.09.19 12.38       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.0104</b>     | 0.00200      | mg/kg         | 03.09.19 12.38       |             | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 03.09.19 12.38       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 126               | %            | 70-130        | 03.09.19 12.38       |             |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-1 S.**  
Lab Sample Id: 616451-002

Matrix: Soil  
Date Collected: 02.27.19 09.10

Date Received: 03.05.19 11.30

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3081358

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.06.19 11.15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 127    | 4.99 | mg/kg | 03.06.19 18.14 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3081691

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 03.08.19 15.00

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0      | 15.0  | mg/kg  | 03.09.19 11.47 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 65.3       | 15.0  | mg/kg  | 03.09.19 11.47 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 46.1       | 15.0  | mg/kg  | 03.09.19 11.47 |      | 1   |
| Total TPH                          | PHC635     | 111        | 15.0  | mg/kg  | 03.09.19 11.47 |      | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 95         | %     | 70-135 | 03.09.19 11.47 |      |     |
| o-Terphenyl                        | 84-15-1    | 95         | %     | 70-135 | 03.09.19 11.47 |      |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-1 S.**  
Lab Sample Id: 616451-002

Matrix: Soil  
Date Collected: 02.27.19 09.10

Date Received: 03.05.19 11.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.08.19 17.00

Basis: Wet Weight

Seq Number: 3081756

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 03.09.19 12.57       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 03.09.19 12.57       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 03.09.19 12.57       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 03.09.19 12.57       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 03.09.19 12.57       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 03.09.19 12.57       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 03.09.19 12.57       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 113               | %            | 70-130        | 03.09.19 12.57       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 110               | %            | 70-130        | 03.09.19 12.57       |             |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-2 Floor**

Matrix: Soil

Date Received: 03.05.19 11.30

Lab Sample Id: 616451-003

Date Collected: 02.27.19 10.18

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.06.19 11.15

Basis: Wet Weight

Seq Number: 3081358

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 19.1   | 5.00 | mg/kg | 03.06.19 18.20 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.08.19 15.00

Basis: Wet Weight

Seq Number: 3081691

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0  | 15.0 | mg/kg | 03.09.19 05.08 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 19.6   | 15.0 | mg/kg | 03.09.19 05.08 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <15.0  | 15.0 | mg/kg | 03.09.19 05.08 | U    | 1   |
| Total TPH                          | PHC635     | 19.6   | 15.0 | mg/kg | 03.09.19 05.08 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 94         | %     | 70-135 | 03.09.19 05.08 |      |
| o-Terphenyl    | 84-15-1    | 95         | %     | 70-135 | 03.09.19 05.08 |      |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-2 Floor**

Matrix: Soil

Date Received: 03.05.19 11.30

Lab Sample Id: 616451-003

Date Collected: 02.27.19 10.18

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.08.19 17.00

Basis: Wet Weight

Seq Number: 3081756

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.16       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.16       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.16       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 03.09.19 13.16       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.16       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.16       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.16       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 108               | %            | 70-130        | 03.09.19 13.16       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 118               | %            | 70-130        | 03.09.19 13.16       |             |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-2 W.**  
Lab Sample Id: 616451-004

Matrix: Soil  
Date Collected: 02.27.19 10.25

Date Received: 03.05.19 11.30

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3081358

Date Prep: 03.06.19 11.15

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 340    | 5.00 | mg/kg | 03.06.19 18.46 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3081691

Date Prep: 03.08.19 15.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <14.9  | 14.9 | mg/kg | 03.09.19 05.28 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 20.1   | 14.9 | mg/kg | 03.09.19 05.28 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <14.9  | 14.9 | mg/kg | 03.09.19 05.28 | U    | 1   |
| Total TPH                          | PHC635     | 20.1   | 14.9 | mg/kg | 03.09.19 05.28 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 03.09.19 05.28 |      |
| o-Terphenyl    | 84-15-1    | 92         | %     | 70-135 | 03.09.19 05.28 |      |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-2 W.**  
Lab Sample Id: 616451-004

Matrix: Soil  
Date Collected: 02.27.19 10.25

Date Received: 03.05.19 11.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.08.19 17.00

Basis: Wet Weight

Seq Number: 3081756

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.36       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.36       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.36       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 03.09.19 13.36       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.36       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.36       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 03.09.19 13.36       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 111               | %            | 70-130        | 03.09.19 13.36       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 109               | %            | 70-130        | 03.09.19 13.36       |             |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-3 Floor**

Matrix: Soil

Date Received: 03.05.19 11.30

Lab Sample Id: 616451-005

Date Collected: 02.27.19 13.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.06.19 11.15

Basis: Wet Weight

Seq Number: 3081358

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 17.5   | 4.99 | mg/kg | 03.06.19 19.06 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.08.19 15.00

Basis: Wet Weight

Seq Number: 3081691

| Parameter                          | Cas Number | Result     | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0      | 15.0 | mg/kg | 03.09.19 05.48 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>101</b> | 15.0 | mg/kg | 03.09.19 05.48 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <15.0      | 15.0 | mg/kg | 03.09.19 05.48 | U    | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>101</b> | 15.0 | mg/kg | 03.09.19 05.48 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 95         | %     | 70-135 | 03.09.19 05.48 |      |
| o-Terphenyl    | 84-15-1    | 96         | %     | 70-135 | 03.09.19 05.48 |      |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-3 Floor**

Matrix: Soil

Date Received: 03.05.19 11.30

Lab Sample Id: 616451-005

Date Collected: 02.27.19 13.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.08.19 17.00

Basis: Wet Weight

Seq Number: 3081756

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 03.09.19 13.55       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 03.09.19 13.55       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 03.09.19 13.55       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 03.09.19 13.55       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 03.09.19 13.55       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 03.09.19 13.55       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 03.09.19 13.55       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 03.09.19 13.55       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 137               | %            | 70-130        | 03.09.19 13.55       | **          |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-3 N.**  
Lab Sample Id: 616451-006

Matrix: Soil  
Date Collected: 02.27.19 13.18

Date Received: 03.05.19 11.30

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3081358

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.06.19 11.15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 102    | 4.96 | mg/kg | 03.06.19 19.12 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3081691

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 03.08.19 15.00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0  | 15.0 | mg/kg | 03.09.19 06.08 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 25.0   | 15.0 | mg/kg | 03.09.19 06.08 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <15.0  | 15.0 | mg/kg | 03.09.19 06.08 | U    | 1   |
| Total TPH                          | PHC635     | 25.0   | 15.0 | mg/kg | 03.09.19 06.08 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 03.09.19 06.08 |      |
| o-Terphenyl    | 84-15-1    | 94         | %     | 70-135 | 03.09.19 06.08 |      |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-3 N.**  
Lab Sample Id: 616451-006

Matrix: Soil  
Date Collected: 02.27.19 13.18

Date Received: 03.05.19 11.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.08.19 17.00

Basis: Wet Weight

Seq Number: 3081756

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 03.09.19 14.14       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 03.09.19 14.14       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 03.09.19 14.14       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 03.09.19 14.14       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 03.09.19 14.14       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 03.09.19 14.14       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 03.09.19 14.14       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 121               | %            | 70-130        | 03.09.19 14.14       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 109               | %            | 70-130        | 03.09.19 14.14       |             |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-4 Floor**

Matrix: Soil

Date Received: 03.05.19 11.30

Lab Sample Id: 616451-007

Date Collected: 02.27.19 11.23

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.06.19 11.15

Basis: Wet Weight

Seq Number: 3081358

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 180    | 4.97 | mg/kg | 03.06.19 19.19 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.08.19 15.00

Basis: Wet Weight

Seq Number: 3081691

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0      | 15.0  | mg/kg  | 03.09.19 06.28 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 560        | 15.0  | mg/kg  | 03.09.19 06.28 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 97.7       | 15.0  | mg/kg  | 03.09.19 06.28 |      | 1   |
| Total TPH                          | PHC635     | 658        | 15.0  | mg/kg  | 03.09.19 06.28 |      | 1   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 94         | %     | 70-135 | 03.09.19 06.28 |      |     |
| o-Terphenyl                        | 84-15-1    | 107        | %     | 70-135 | 03.09.19 06.28 |      |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-4 Floor**

Matrix: Soil

Date Received: 03.05.19 11.30

Lab Sample Id: 616451-007

Date Collected: 02.27.19 11.23

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.08.19 17.00

Basis: Wet Weight

Seq Number: 3081756

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 03.09.19 14.33       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 03.09.19 14.33       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 03.09.19 14.33       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 03.09.19 14.33       | U           | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.00634</b>    | 0.00199      | mg/kg         | 03.09.19 14.33       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.00634</b>    | 0.00199      | mg/kg         | 03.09.19 14.33       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.00634</b>    | 0.00199      | mg/kg         | 03.09.19 14.33       |             | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 106               | %            | 70-130        | 03.09.19 14.33       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 118               | %            | 70-130        | 03.09.19 14.33       |             |     |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-4 E.**  
Lab Sample Id: 616451-008

Matrix: Soil  
Date Collected: 02.27.19 11.20

Date Received: 03.05.19 11.30

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3081358

Prep Method: E300P

% Moisture:

Date Prep: 03.06.19 11.15

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 318    | 4.95 | mg/kg | 03.06.19 19.25 |      | 1   |

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3081691

Prep Method: TX1005P

% Moisture:

Date Prep: 03.08.19 15.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0  | 15.0 | mg/kg | 03.09.19 12.06 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 46.1   | 15.0 | mg/kg | 03.09.19 12.06 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 35.0   | 15.0 | mg/kg | 03.09.19 12.06 |      | 1   |
| Total TPH                          | PHC635     | 81.1   | 15.0 | mg/kg | 03.09.19 12.06 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 97         | %     | 70-135 | 03.09.19 12.06 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 03.09.19 12.06 |      |



# Certificate of Analytical Results 616451



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

### B Hardin Battery

Sample Id: **SP-4 E.**  
Lab Sample Id: 616451-008

Matrix: Soil  
Date Collected: 02.27.19 11.20

Date Received: 03.05.19 11.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.08.19 17.00

Basis: Wet Weight

Seq Number: 3081756

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 03.09.19 14.52       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 03.09.19 14.52       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 03.09.19 14.52       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 03.09.19 14.52       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 03.09.19 14.52       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 03.09.19 14.52       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 03.09.19 14.52       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 111               | %            | 70-130        | 03.09.19 14.52       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 110               | %            | 70-130        | 03.09.19 14.52       |             |     |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit

**SDL** Sample Detection Limit

**LOD** Limit of Detection

**PQL** Practical Quantitation Limit

**MQL** Method Quantitation Limit

**LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample

**BLK**

Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample

**BKSD/LCSD**

Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate

**MS**

Matrix Spike

**MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



## QC Summary 616451

### Trinity Oilfield Services & Rentals, LLC B Hardin Battery

**Analytical Method: Chloride by EPA 300**

Seq Number: 3081358

MB Sample Id: 7673058-1-BLK

Matrix: Solid

LCS Sample Id: 7673058-1-BKS

Prep Method: E300P

Date Prep: 03.06.19

LCSD Sample Id: 7673058-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <0.858    | 250          | 251        | 100      | 254         | 102       | 90-110 | 1    | 20        | mg/kg | 03.06.19 16:43 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3081358

Parent Sample Id: 616446-016

Matrix: Soil

MS Sample Id: 616446-016 S

Prep Method: E300P

Date Prep: 03.06.19

MSD Sample Id: 616446-016 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 19.6          | 252          | 272       | 100     | 286        | 106      | 90-110 | 5    | 20        | mg/kg | 03.06.19 17:03 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3081358

Parent Sample Id: 616452-001

Matrix: Soil

MS Sample Id: 616452-001 S

Prep Method: E300P

Date Prep: 03.06.19

MSD Sample Id: 616452-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 3.22          | 248          | 254       | 101     | 249        | 99       | 90-110 | 2    | 20        | mg/kg | 03.06.19 18:33 |      |

**Analytical Method: TPH By SW8015 Mod**

Seq Number: 3081691

MB Sample Id: 7673295-1-BLK

Matrix: Solid

LCS Sample Id: 7673295-1-BKS

Prep Method: TX1005P

Date Prep: 03.08.19

LCSD Sample Id: 7673295-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <8.00     | 1000         | 969        | 97       | 1020        | 102       | 70-135 | 5    | 20        | mg/kg | 03.09.19 03:08 |      |
| Diesel Range Organics (DRO)       | <8.13     | 1000         | 981        | 98       | 1050        | 105       | 70-135 | 7    | 20        | mg/kg | 03.09.19 03:08 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 96      |         | 114      |          | 126       |           | 70-135 | %     | 03.09.19 03:08 |
| o-Terphenyl    | 97      |         | 102      |          | 109       |           | 70-135 | %     | 03.09.19 03:08 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



## QC Summary 616451

### Trinity Oilfield Services & Rentals, LLC B Hardin Battery

Analytical Method: TPH By SW8015 Mod

Seq Number: 3081691

Parent Sample Id: 616451-001

Matrix: Soil

MS Sample Id: 616451-001 S

Prep Method: TX1005P

Date Prep: 03.08.19

MSD Sample Id: 616451-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | 11.5          | 998          | 1000      | 99      | 1130       | 112      | 70-135 | 12   | 20        | mg/kg | 03.09.19 04:08 |      |
| Diesel Range Organics (DRO)       | 228           | 998          | 1250      | 102     | 1400       | 117      | 70-135 | 11   | 20        | mg/kg | 03.09.19 04:08 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 115     |         | 127      |          | 70-135 | %     | 03.09.19 04:08 |
| o-Terphenyl    | 106     |         | 117      |          | 70-135 | %     | 03.09.19 04:08 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3081756

MB Sample Id: 7673344-1-BLK

Matrix: Solid

LCS Sample Id: 7673344-1-BKS

Prep Method: SW5030B

Date Prep: 03.08.19

LCSD Sample Id: 7673344-1-BSO

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000388 | 0.101        | 0.106      | 105      | 0.102       | 102       | 70-130 | 4    | 35        | mg/kg | 03.09.19 10:27 |      |
| Toluene      | <0.000459 | 0.101        | 0.0939     | 93       | 0.0907      | 91        | 70-130 | 3    | 35        | mg/kg | 03.09.19 10:27 |      |
| Ethylbenzene | <0.000569 | 0.101        | 0.0901     | 89       | 0.0867      | 87        | 70-130 | 4    | 35        | mg/kg | 03.09.19 10:27 |      |
| m,p-Xylenes  | <0.00102  | 0.202        | 0.180      | 89       | 0.173       | 87        | 70-130 | 4    | 35        | mg/kg | 03.09.19 10:27 |      |
| o-Xylene     | <0.000347 | 0.101        | 0.0898     | 89       | 0.0870      | 87        | 70-130 | 3    | 35        | mg/kg | 03.09.19 10:27 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 108     |         | 104      |          | 105       |           | 70-130 | %     | 03.09.19 10:27 |
| 4-Bromofluorobenzene | 97      |         | 96       |          | 98        |           | 70-130 | %     | 03.09.19 10:27 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3081756

Parent Sample Id: 616450-004

Matrix: Soil

MS Sample Id: 616450-004 S

Prep Method: SW5030B

Date Prep: 03.08.19

MSD Sample Id: 616450-004 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000387     | 0.101        | 0.0971    | 96      | 0.0921     | 92       | 70-130 | 5    | 35        | mg/kg | 03.09.19 11:05 |      |
| Toluene      | <0.000458     | 0.101        | 0.0855    | 85      | 0.0816     | 82       | 70-130 | 5    | 35        | mg/kg | 03.09.19 11:05 |      |
| Ethylbenzene | <0.000568     | 0.101        | 0.0792    | 78      | 0.0757     | 76       | 70-130 | 5    | 35        | mg/kg | 03.09.19 11:05 |      |
| m,p-Xylenes  | 0.00117       | 0.201        | 0.158     | 78      | 0.151      | 75       | 70-130 | 5    | 35        | mg/kg | 03.09.19 11:05 |      |
| o-Xylene     | 0.000551      | 0.101        | 0.0789    | 78      | 0.0757     | 75       | 70-130 | 4    | 35        | mg/kg | 03.09.19 11:05 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 106     |         | 105      |          | 70-130 | %     | 03.09.19 11:05 |
| 4-Bromofluorobenzene | 102     |         | 101      |          | 70-130 | %     | 03.09.19 11:05 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



## CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

Environmental • Asbestos • Radiochemistry

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LAB W.O. #:

Field billable Hrs:

## \* Container Type Codes

|                       |                      |
|-----------------------|----------------------|
| VA Vial Amber         | ES Encore Sampler    |
| VC Vial Clear         | TS TerraCore Sampler |
| VP Vial Pre-preserved | AC Air Canister      |
| GA Glass Amber        | TB Tedlar Bag        |
| GC Glass Clear        | ZB Zip Lock Bag      |
| PA Plastic Amber      | PC Plastic Clear     |
| PC Plastic Clear      |                      |

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal  
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

## \*\* Preservative Type Codes

|                                   |                                                  |                   |
|-----------------------------------|--------------------------------------------------|-------------------|
| A. None                           | E. HCL                                           | I. Ice            |
| B. HNO <sub>3</sub>               | F. MeOH                                          | J. MCAA           |
| C. H <sub>2</sub> SO <sub>4</sub> | G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | K. ZnAc&NaOH      |
| D. NaOH                           | H. NaHSO <sub>4</sub>                            | L. Asbc Acid&NaOH |
| O.                                |                                                  |                   |

## ^ Matrix Type Codes

|                    |                       |
|--------------------|-----------------------|
| GW Ground Water    | S Soil/Sediment/Solid |
| WW Waste Water     | W Wipe                |
| DW Drinking Water  | A Air                 |
| SW Surface Water   | O Oil                 |
| OW Ocean/Sea Water | T Tissue              |
| PL Product-Liquid  | U Urine               |
| PS Product-Solid   | B Blood               |
| SL Sludge          |                       |

## REMARKS

Company: Trinity Oilfield Services &amp; Rentals, LLC Phone: (575)390-7208

Address: P.O. Box 2587 Fax:

City: Hobbs State: NM Zip: 88241

PM/Attn: Ben J. Arguijo Email: wade.dittrich@oxy.com &amp; ben@trinityoilfieldservices.com

Project ID: B Hardin Battery PO#:

Invoice To: Oxy - Wade Dittrich (575)390-2828 Quote #:

Sampler Name: Josh Halcomb Circle One Event: Daily Weekly Monthly  
Quarterly Semi-Annual Annual N/A

| Sample # | Sample ID  | Collect Date | Collect Time | Matrix Code | Field Filtered | Integrity OK (Y/N) | Total # of Containers | Example Volatiles by 8260 | TPH 8015M | BTEX | Chloride | Hold Sample (CALL on Highest TPH) | Run PAH Only if |
|----------|------------|--------------|--------------|-------------|----------------|--------------------|-----------------------|---------------------------|-----------|------|----------|-----------------------------------|-----------------|
| 1        | SP-1 Floor | 2/27/19      | 0908         | S           |                |                    | 1                     |                           | X         | X    | X        |                                   |                 |
| 2        | SP-1 S.    | 2/27/19      | 0910         | S           |                |                    | 1                     |                           | X         | X    | X        |                                   |                 |
| 3        | SP-2 Floor | 2/27/19      | 1018         | S           |                |                    | 1                     |                           | X         | X    | X        |                                   |                 |
| 4        | SP-2 W.    | 2/27/19      | 1025         | S           |                |                    | 1                     |                           | X         | X    | X        |                                   |                 |
| 5        | SP-3 Floor | 2/27/19      | 1315         | S           |                |                    | 1                     |                           | X         | X    | X        |                                   |                 |
| 6        | SP-3 N.    | 2/27/19      | 1318         | S           |                |                    | 1                     |                           | X         | X    | X        |                                   |                 |
| 7        | SP-4 Floor | 2/27/19      | 1123         | S           |                |                    | 1                     |                           | X         | X    | X        |                                   |                 |
| 8        | SP-4 E.    | 2/27/19      | 1120         | S           |                |                    | 1                     |                           | X         | X    | X        |                                   |                 |
| 9        |            |              |              |             |                |                    |                       |                           |           |      |          |                                   |                 |
| 0        |            |              |              |             |                |                    |                       |                           |           |      |          |                                   |                 |

| Reg. Program / Clean-up Std |      |    |       |             | STATE for Certs & Regs  |   |   |   |   | QA/QC Level & Certification |          |        |       |        | EDDs        |       |            | COC & Labels |         | Coolers Temp °C |   | Lab Use Only |                              |            |
|-----------------------------|------|----|-------|-------------|-------------------------|---|---|---|---|-----------------------------|----------|--------|-------|--------|-------------|-------|------------|--------------|---------|-----------------|---|--------------|------------------------------|------------|
| CTLs                        | TRRP | DW | NPDES | LPST DryCln | FL TX GA NC SC NJ PA OK | 1 | 2 | 3 | 4 | CLP                         | AFCEE    | QAPP   | ADaPT | SEDD   | ERPIMS      | Match | Incomplete | Absent       | Unclear | 1               | 2 | 3            | Non-Conformances found?      | YES NO N/A |
| Other:                      |      |    |       |             | LA AL NM Other:         |   |   |   |   | NELAC                       | DoD-ELAP | Other: | XLS   | Other: |             |       |            |              |         |                 |   |              | Samples intact upon arrival? |            |
| Relinquished by             |      |    |       |             | Affiliation             |   |   |   |   | Date                        |          |        |       |        | Received by |       |            | Affiliation  |         | Date            |   | Time         |                              |            |
| 1 Josh Halcomb              |      |    |       |             | Trinity                 |   |   |   |   | 3/4/19                      |          |        |       |        | 3/4/19      |       |            | MS           |         | 3/4/19          |   | 4:26         |                              |            |
| 2 Jessica Furey             |      |    |       |             | MS                      |   |   |   |   | 3/4/19                      |          |        |       |        | X           |       |            | Xenco        |         | 3/3/19          |   | 11:30        |                              |            |
| 3                           |      |    |       |             |                         |   |   |   |   |                             |          |        |       |        |             |       |            |              |         |                 |   |              |                              |            |
| 4                           |      |    |       |             |                         |   |   |   |   |                             |          |        |       |        |             |       |            |              |         |                 |   |              |                              |            |

B&amp;A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In



**Client:** Trinity Oilfield Services & Rentals, LLC

**Date/ Time Received:** 03/05/2019 11:30:00 AM

**Work Order #:** 616451

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

### Sample Receipt Checklist

### Comments

|                                                         |     |
|---------------------------------------------------------|-----|
| #1 *Temperature of cooler(s)?                           | 1.3 |
| #2 *Shipping container in good condition?               | Yes |
| #3 *Samples received on ice?                            | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles?              | N/A |
| #6 *Custody Seals Signed and dated?                     | N/A |
| #7 *Chain of Custody present?                           | Yes |
| #8 Any missing/extra samples?                           | No  |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes |
| #11 Container label(s) legible and intact?              | Yes |
| #12 Samples in proper container/ bottle?                | Yes |
| #13 Samples properly preserved?                         | Yes |
| #14 Sample container(s) intact?                         | Yes |
| #15 Sufficient sample amount for indicated test(s)?     | Yes |
| #16 All samples received within hold time?              | Yes |
| #17 Subcontract of sample(s)?                           | No  |
| #18 Water VOC samples have zero headspace?              | N/A |

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

**Checklist completed by:**

Katie Lowe

Date: 03/05/2019

**Checklist reviewed by:**

Holly Taylor

Date: 03/05/2019