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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

| Incident ID    |  |
|----------------|--|
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

# **Release Notification**

# **Responsible Party**

| Responsible Party Hilcorp Energy       |                              |  |  | OGRID 372171                              |                               |   |  |  |
|--|------------------------------|--|--|---|-------------------------------|---|--|--|
| Contact Name Clara Cardoza             |                              |  |  | Contact Telephone 505.564.0733            |                               |   |  |  |
| Contact email ccardoza@hilcorp.com     |                              |  |  | Incident # (assigned by OCD)NCS1909331514 |                               |   |  |  |
| Contact mai                            | ling address                 | 382 CR 3100, Az  | rtec NM 87410  |   |                               |   |  |  |
|  |                              |  | Locatio  | n of R                                    | elease Soi                    | ırce  | NMOCD  |  |
| atitude 3                              | 6.7374039                    |  | Long   | gitude                                    | -107.9                        | 133835  | MAY 2 3 2019                                     |  |
| ititude                                | 0.7374037                    |  |  |   | grees to 5 decima             |   | DISTRICT III                                     |  |
| ite Name S                             | an Juan Nye                  | Federal 1  |  |   | Site Type Ga                  | s Well  | 0101R101 111                                     |  |
| ate Release                            | Discovered                   | 4/2/2019   |  |   | API# (if applie               | able) 30-045-1199   | 94   |  |
|  |                              |  |  |   |                               | _   |  |  |
| Unit Letter                            | Section                      | Township   | Range  |   | County                        |   | ENIED<br>See Email                               |  |
| _                                      | 08                           | 29N  | 10W  | San.                                      | Juan                          |   |  |  |
| riace Owne                             | State                        | rederal   1  | ribal Private  |   |                               |   | Smith (505) 334-6178 Ext. 115                    |  |
| irrace Owne                            |                              |  | Nature ar  | nd Vol                                    | lume of R                     | elease  | ,,   |  |
| ☐ Crude Oi                             | Materia                      |  | Nature ar  | nd Vol                                    | lume of Re                    | elease  | rolumes provided below)                          |  |
| Crude Oi                               | Materia<br>I                 | l(s) Released (Select a  | Nature ar  | nd Vol                                    | lume of Ro                    | elease  | olumes provided below) ered (bbls)               |  |
| Crude Oi                               | Materia<br>I                 | l(s) Released (Select a<br>Volume Releas<br>Volume Releas  | Nature ar all that apply and atta ed (bbls) ed (bbls) 85 ation of dissolved                              | nd Vol                                    | lume of Ro                    | elease stification for the v  | olumes provided below) ered (bbls) ered (bbls) 0 |  |
| Crude Oi                               | Materia<br> <br>  Water      | l(s) Released (Select a Volume Releas Volume Releas Is the concentra   | Nature ar all that apply and atta ed (bbls) ed (bbls) 85 ation of dissolved > 10,000 mg/l?               | nd Vol                                    | lume of Ro                    | elease<br>stification for the v<br>Volume Recov<br>Volume Recov                         | olumes provided below) ered (bbls) ered (bbls) 0 |  |
| ☐ Crude Oi<br>☑ Produced               | Materia<br>l<br>Water        | Volume Released (Select a Volume Release Volume Release Is the concentration produced water  | Nature and all that apply and attalled (bbls) ed (bbls) 85 ation of dissolved to >10,000 mg/l? ed (bbls) | nd Vol                                    | lume of Roions or specific ju | elease stification for the v Volume Recov Volume Recov  Yes No                          | ered (bbls) ered (bbls) ered (bbls)              |  |
| ☐ Crude Oi<br>☑ Produced<br>☐ Condensa | Materia<br>I<br>Water<br>nte | Volume Released (Select a Volume Released Select a Volume Released Sele | Nature and all that apply and attalled (bbls) ed (bbls) 85 ation of dissolved to >10,000 mg/l? ed (bbls) | nd Vol                                    | lume of Reions or specific ju | elease stification for the v Volume Recov Volume Recov Yes No Volume Recov Volume Recov | ered (bbls) ered (bbls) ered (bbls)              |  |



#### Smith, Cory, EMNRD

From:

Smith, Cory, EMNRD

Sent:

Thursday, June 20, 2019 3:17 PM

To:

'Clara Cardoza'

Subject:

RE: Release: Nye Federal 1 API 30-045-11994

Clara,

OCD has reviewed the Closure report for the Nye Federal #1 and has denied it for the following

- Depth To water determination is insufficient (Operator may not reference another permit for water information. Operator Can use that data however it needs to be included in the closure packet)
- No site Diagram per 19.15.29.12 NMAC
- No details of remedial activity (Executive summary)
- Estimated sample size does not meet the requirements of 19.15.29.12 NMAC Was HEC given approval for alternative sampling size? If so when and by whom?

Some notes on this site per 19.15.29 remember the top 4' of soils must be below 600 mg/kg or background whichever is higher for chlorides regardless of the closure standard. I also reviewed the BGT permit which is not approved just scanned into the system. The permit says its estimated depth to water based on iwaters and cathodic wells I don't see any cathodic data in the packet. Looking at the aerial vegetation and size of the arroyo I suspect ground water is 50/100' I would recommend looking for better ground water data.

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

From: Smith, Cory, EMNRD

Sent: Wednesday, April 3, 2019 9:17 AM

To: 'Clara Cardoza' <ccardoza@hilcorp.com>; Abiodun Adeloye <aadeloye@blm.gov>; Griswold, Jim, EMNRD

<Jim.Griswold@state.nm.us>

Cc: Powell, Brandon, EMNRD < Brandon. Powell@state.nm.us>

Subject: RE: Release: Nye Federal 1 API 30-045-11994

Clara,

OCD has assigned this the below highlighted incident# to the release. Please include it on any future communications/submitalls

# NCS1909331514 NYE FEDERAL #001 @ 30-045-11994

#### General Incident Information

Site Name:

NYE FEDERAL #001

Well:

[30-045-11994] NYE FEDERAL #001

Facility:

Operator:

[372171] HILCORP ENERGY COMPANY

Status:

Closure Not Approved

Type:

Produced Water Release

District:

Aztec

Incident Location:

L-08-29N-10W Lot:

0 FNL

OFEL

Lat/Long:

36.737401,-107.91338 NAD83

Cory Smith

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

From: Clara Cardoza <ccardoza@hilcorp.com> Sent: Wednesday, April 3, 2019 9:11 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Abiodun Adeloye <aadeloye@blm.gov>; Griswold, Jim, EMNRD

<Jim.Griswold@state.nm.us>

Cc: Powell, Brandon, EMNRD < Brandon. Powell@state.nm.us> Subject: [EXT] Release: Nye Federal 1 API 30-045-11994

Please let this serve as a follow-up email for the Hilcorp Energy Nye Federal #1

What: 85 bbls Produced Water Discovered: 4/2/2019 11:15 a.m. Cause: corrosion on bottom of BGT Lat/Long: 36.73740, -107.91338

S 8 T29N R 10W Unit L

Contents remained on site within the containment – no liquid was recovered.

Please let me know if you have any questions.

Thank you,

Clara M Cardoza **Environmental Specialist** 505-564-0733 (O) 505-793-2784 (C)



Please consider the environment before printing this e-mail

# State of New Mexico Oil Conservation Division

| Incident ID    |  |
|----------------|--|
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

| release as defined by 19.15.29.7(A) NMAC?   | An unauthorized release of a volume, ex   | cluding gases, of 25 barrels or more   |
|---|---|--|
| ⊠ Yes □ No  |   |  |
|   |   |  |
|   |   |  |
| 4/3/19 to Cory Smith at 8   |   | whom? When and by what means (phone, email, etc)? bye at 8:40 a.m. by Clara Cardoza via phone to both. old 4/3/2019 @ 9:11 a.m.  |
|   | Initial F   | Response   |
| The responsible   | party must undertake the following actions immediat   | ely unless they could create a safety hazard that would result in injury   |
| ☐ The source of the rele  | ease has been stopped.  |  |
| ☐ The impacted area ha  | s been secured to protect human health and  | d the environment.   |
| Released materials ha   | ive been contained via the use of berms or  | dikes, absorbent pads, or other containment devices.   |
| All free liquids and re   | ecoverable materials have been removed an   | nd managed appropriately.  |
| If all the actions described  | d above have <u>not</u> been undertaken, explain  | why:   |
|   |   |  |
| has begun, please attach  | a narrative of actions to date. If remedial   | remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.  |
| regulations all operators are<br>public health or the environr<br>failed to adequately investig | required to report and/or file certain release no<br>ment. The acceptance of a C-141 report by the<br>ate and remediate contamination that pose a thr | be best of my knowledge and understand that pursuant to OCD rules and diffications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws |
| Printed Name:Clara C  | ardoza  | Title: Environmental Specialist  |
| Signature: Uard   | Carly   | Date: <u>5/20/2019</u>   |
| email: <u>ccardoza@hil</u>  | corp.com_   | Telephone:505.564.0733   |
| OCD Only  |   |  |
| Received by:  |   | Date:  |

# State of New Mexico Oil Conservation Division

| Incident ID    |  |
|----------------|--|
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

# Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release?  | <u>&gt;100 ft</u> (ft bgs) |
|--|----------------------------|
| Did this release impact groundwater or surface water?  | ☐ Yes ☑ No                 |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?   | ☐ Yes ⊠ No                 |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?   | ☐ Yes ⊠ No                 |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?   | ☐ Yes ☑ No                 |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?  | ☐ Yes ☑ No                 |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?   | ☐ Yes ☑ No                 |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?  | ☐ Yes ⊠ No                 |
| Are the lateral extents of the release within 300 feet of a wetland?   | ☐ Yes ☑ No                 |
| Are the lateral extents of the release overlying a subsurface mine?  | ☐ Yes ☑ No                 |
| Are the lateral extents of the release overlying an unstable area such as karst geology?   | ☐ Yes ☑ No                 |
| Are the lateral extents of the release within a 100-year floodplain?   | ☐ Yes ⊠ No                 |
| Did the release impact areas not on an exploration, development, production, or storage site?  | ☐ Yes ⊠ No                 |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.  | tical extents of soil      |
| Characterization Report Checklist: Each of the following items must be included in the report.   | <del></del>                |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well.  Field data  Data table of soil contaminant concentration data  | s.                         |
| Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps |                            |
| ☐ Boring or excavation logs ☐ Photographs including date and GIS information   |                            |
| ☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody   |                            |
|  |                            |

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

# State of New Mexico Oil Conservation Division

| Incident ID    |  |
|----------------|--|
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

|                                    | occupatifications and perform corrective actions for releases which may endanger occupations not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In |
|------------------------------------|---|
| Printed Name: <u>Clara Cardoza</u> | Title: <u>Environmental Specialist</u>  |
| Signature: Uard Conf               | Date: _5/20/2019  |
| email: <u>ccardoza@hilcorp.com</u> | Telephone: <u>505.564.0733</u>  |
|                                    |   |
| OCD Only                           |   |
| Received by:                       | Date:   |

#### State of New Mexico Oil Conservation Division

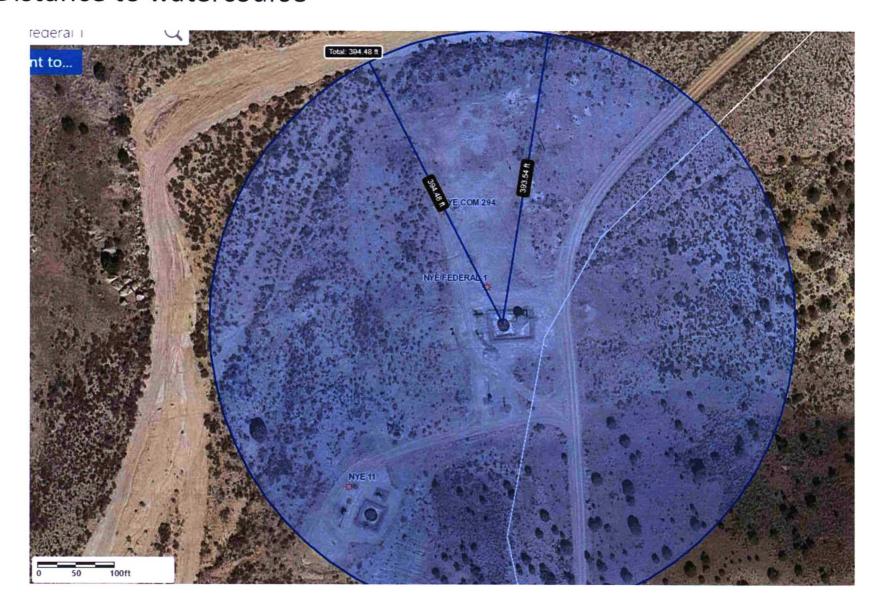
| Incident ID    |  |
|----------------|--|
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

# Closure

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

| Closure Report Attachment Checklist: Each of the following items must be included in the closure report.   |
|--|
| □ A scaled site and sampling diagram as described in 19.15.29.11 NMAC  |
| Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)  |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)  |
| ☐ Description of remediation activities  |
|  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. |
| Printed Name: Clara Cardoza Title: Environmental Specialist  |
| Signature: Date: _5/20/2019  |
| email: <u>ccardoza@hilcorp.com</u> Telephone: <u>505.564.0733</u>  |
|  |
| Received by: 6/23/19 ODC Date:   |
| Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.  |
| Closure Approved by: Date:   |
| Printed Name: Title:   |
|  |

# Distance to watercourse



# Depth to groundwater

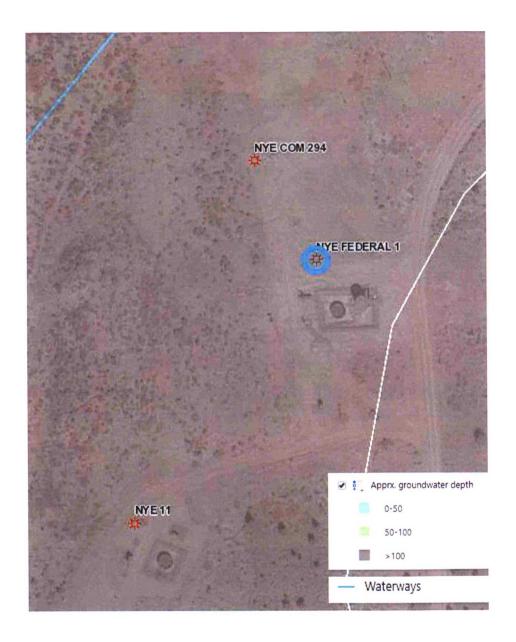
#### From BGT Permit Application

#### **NYE FEDERAL 1**

Site Specific Hydrogeology

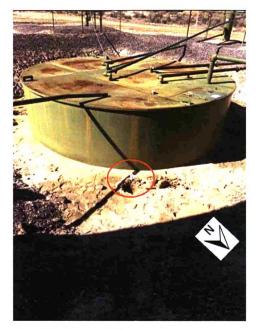
A visual site inspection confirming the information contained herein was performed on the well 'NYE FEDERAL 1', which is located at 36.73721 degree, North latitude and 107.91292 degree, West longitude. This location is located on the Bloomfield 7.5' USGS topographic quadrangle. This location is in section 8 of Township 29 North Range 10 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Bloomfield, located 4.5 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 16.2 miles to the west (National Atlas). The nearest highway is US Highway 64, located 1.6 miles to the south. The location is on BLM land and is 2,032 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1741 meters or 5710 feet above sea level and receives 10 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Mixed Salt Desert Scrub as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 214 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's (Waters Database for wells near the proposed site are attached. The nearest stream is 460 feet to the north and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,862 feet to the north. The nearest water body is 4,842 feet to the north. It is classified by the USGS as an intermittent lake and is 0.3 acres in size. The nearest spring is 3,414 feet to the southwest. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 5,496 feet to the southwest. The nearest wetland is a 0.4 acre Freshwater Emergent Wetland located 6,393 feet to the south. The slope at this location is 4 degree, to the northwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Haplargids-Blackston-Torriorthents complex, very steep' and is well drained and not hydric with severe erosion potential as taken' from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 15.6 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.



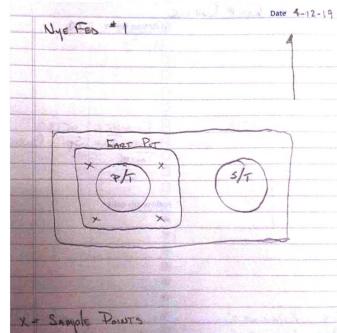
# Sample locations/field notes







Due to the contents of the BGT no soil was removed as a result of this release. The soil around the tank was sampled and found to be below clean-up standard and was therefore resampled in accordance with NMAC 19.15.29.12.D



#### Clara Cardoza

From:

Clara Cardoza

Sent:

Wednesday, April 10, 2019 9:59 AM

To:

cory.smith@state.nm.us; Abiodun Adeloye

Cc:

Kurt Hoekstra; Patrick Hudman; whitney thomas (I1thomas@blm.gov)

Subject:

NCS1909331514 Nye Federal 1 - Confirmation Sampling

Cory/Emmanuel – please let this serve as 48 hour notification for confirmation sampling at the Nye Federal 1 for Friday April 12<sup>th</sup> at 10:00 a.m. Let me know if you have any questions or concerns.

Thank you,

Clara M Cardoza **Environmental Specialist** 505-564-0733 (O) 505-793-2784 (C)



Please consider the environment before printing this e-mail

|             |            |                                    |         |          | Laboratory Results |         |         |         |         |          |         |              |         |            |
|-------------|------------|------------------------------------|---------|----------|--------------------|---------|---------|---------|---------|----------|---------|--------------|---------|------------|
|             |            |                                    | Field   |          |                    |         |         |         |         |          |         |              |         |            |
|             |            |                                    | VOCs by |          | TPH as             | TPH as  | TPH as  | Total   | GRO+    |          |         |              | Total   |            |
|             |            | Sample                             | PID     | Chloride | DRO                | GRO     | MRO     | TPH     | DRO     | Benzene  | Toluene | Ethylbenzene | Xylene  | Total BTEX |
| Sample Name | Date       | Location                           | (ppm)   | (mg/kg)  | (mg/kg)            | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg)  | (mg/kg) | (mg/kg)      | (mg/kg) | (mg/kg)    |
| NMO         | OCD Action | Action Level 20,000 2,500 1,000 10 |         |          |                    |         |         | 50      |         |          |         |              |         |            |
| BGT PIT     | 4/12/19    | Nye Fed 1                          | n/a     | 748      | 8.38               | ND-     | 7.71    | 16.1    | 8.38    | 0.000839 | ND      | ND:          | 0.00469 | 0.005529   |

•



# ANALYTICAL REPORT

April 18, 2019

#### HilCorp-Farmington, NM

Sample Delivery Group:

L1088864

Samples Received:

04/13/2019

Project Number:

Description:

NYE FEDERAL #1

Site:

NYE FEDERAL #1

Report To:

Clara Cardoza

382 Road 3100

Aztec, NM 87401

Entire Report Reviewed By: Washne R Richards Daphne Richards

Project Manager

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



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ONE LAB. NATIONWIDE.

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| Cn: Case Narrative                                  | 4  |
| Sr: Sample Results                                  | 5  |
| BGT PIT L1088864-01                                 | 5  |
| Qc: Quality Control Summary                         | 6  |
| Wet Chemistry by Method 9056A                       | 6  |
| Volatile Organic Compounds (GC) by Method 8015/8021 | 7  |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | 9  |
| GI: Glossary of Terms                               | 10 |
| Al: Accreditations & Locations                      | 11 |
| Sc: Sample Chain of Custody                         | 12 |





## SAMPLE SUMMARY

ONE

| LAB. NATIONWIDE. | 3 |
|------------------|---|
|                  |   |

|   | Collected by<br>Kurt Hoekstra | Collected date/time<br>04/12/19 10:11 | Received date/time<br>04/13/19 08:45 |                |         |                |
|---|-------------------------------|---------------------------------------|--------------------------------------|----------------|---------|----------------|
| BGT PIT L1088864-01 Solid                           |                               | Kuit noekstia                         | 04/12/19 10.11                       | 04/13/19 00.43 |         |                |
| Method  | Batch                         | Dilution                              | Preparation                          | Analysis       | Analyst | Location       |
|   |                               |                                       | date/time                            | date/time      |         |                |
| Wet Chemistry by Method 9056A                       | WG1266108                     | 1                                     | 04/17/19 09:45                       | 04/17/19 14:24 | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG1265882                     | 1                                     | 04/14/19 08:39                       | 04/14/19 13:16 | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1266271                     | 1                                     | 04/15/19 07:53                       | 04/15/19 14:58 | TJD     | Mt. Juliet, TN |



















\_\_\_\_

<sup>2</sup>Tc

<sup>3</sup>Ss













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

Daphne Richards Project Manager

Japhne R Richards

**BGT PIT** 

#### SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

L1088864

## Wet Chemistry by Method 9056A

Collected date/time: 04/12/19 10:11

|          | Result | Qualifier | RDL   | Dilution | Analysis         | Batch     |
|----------|--------|-----------|-------|----------|------------------|-----------|
| Analyte  | mg/kg  |           | mg/kg |          | date / time      |           |
| Chloride | 748    |           | 10.0  | 1        | 04/17/2019 14:24 | WG1266108 |

# <sup>2</sup>Tc

## Volatile Organic Compounds (GC) by Method 8015/8021

|                                 | Result   | Qualifier | RDL      | Dilution | Analysis         | Batch     |
|---------------------------------|----------|-----------|----------|----------|------------------|-----------|
| Analyte                         | mg/kg    |           | mg/kg    |          | date / time      |           |
| Benzene                         | 0.000839 |           | 0.000500 | 1        | 04/14/2019 13:16 | WG1265882 |
| Toluene                         | ND       |           | 0.00500  | 1        | 04/14/2019 13:16 | WG1265882 |
| Ethylbenzene                    | ND       |           | 0.000500 | 1        | 04/14/2019 13:16 | WG1265882 |
| Total Xylene                    | 0.00469  |           | 0.00150  | 1        | 04/14/2019 13:16 | WG1265882 |
| TPH (GC/FID) Low Fraction       | ND       |           | 0.100    | 1        | 04/14/2019 13:16 | WG1265882 |
| (S) a,a,a-Trifluorotoluene(FID) | 98.8     |           | 77.0-120 |          | 04/14/2019 13:16 | WG1265882 |
| (S) a,a,a-Trifluorotoluene(PID) | 92.7     |           | 72.0-128 |          | 04/14/2019 13:16 | WG1265882 |



#### Semi-Volatile Organic Compounds (GC) by Method 8015

|                      | Result | Qualifier | RDL      | Dilution | Analysis         | Batch     |
|----------------------|--------|-----------|----------|----------|------------------|-----------|
| Analyte              | mg/kg  |           | mg/kg    |          | date / time      |           |
| C10-C28 Diesel Range | 8.38   |           | 4.00     | 1        | 04/15/2019 14:58 | WG1266271 |
| C28-C40 Oil Range    | 7.71   |           | 4.00     | 1        | 04/15/2019 14:58 | WG1266271 |
| (S) o-Terphenyl      | 58.9   |           | 18.0-148 |          | 04/15/2019 14:58 | WG1266271 |

#### WG1266108

#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

#### L1088864-01

#### Method Blank (MB)

| (MAR) | D3/026/01 | 04/17/10 | 12.24 |  |
|-------|-----------|----------|-------|--|

Wet Chemistry by Method 9056A

|          | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Analyte  | mg/kg     |              | mg/kg  | mg/kg  |
| Chloride | 3.60      | J            | 0.795  | 10.0   |









| (03) 11000003-03 04 | 11/13 10.03 (001) | 113402043-0 | 04/1//13 | 0.14    |               |                   |  |
|---------------------|-------------------|-------------|----------|---------|---------------|-------------------|--|
|                     | Original Result   | DUP Result  | Dilution | DUP RPD | DUP Qualifier | DUP RPD<br>Limits |  |
| Analyte             | mg/kg             | mg/kg       |          | %       |               | %                 |  |
| Chloride            | 14.6              | 13.4        | 1        | 8.88    |               | 15                |  |









(OS) L1088879-09 04/17/19 17:48 • (DUP) R3402649-7 04/17/19 17:56

| , | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD<br>Limits |  |
|---|-----------------|------------|----------|---------|---------------|-------------------|--|
| Analyte                                 | mg/kg           | mg/kg      |          | %       |               | %                 |  |
| Chloride                                | 638             | 637        | 1        | 0.246   |               | 15                |  |







#### Laboratory Control Sample (LCS)

| (LCS) R3402649-3 04/17 | /19 14:00    |            |          |             |               |
|------------------------|--------------|------------|----------|-------------|---------------|
|                        | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte                | mg/kg        | mg/kg      | %        | %           |               |
| Chloride               | 200          | 196        | 98.0     | 80.0-120    |               |



## L1088864-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) L1088864-01 04/17/19 | 9 14:24 • (MS) R | 3402649-4 04    | 1/17/19 14:32 • ( | MSD) R340264 | 19-5 04/17/19 1 | 4:40     |          |             |              |               |      |            |
|---------------------------|------------------|-----------------|-------------------|--------------|-----------------|----------|----------|-------------|--------------|---------------|------|------------|
|                           | Spike Amount     | Original Result | MS Result         | MSD Result   | MS Rec.         | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
| Analyte                   | mg/kg            | mg/kg           | mg/kg             | mg/kg        | %               | %        |          | %           |              |               | %    | %          |
| Chloride                  | 500              | 748             | 1310              | 1240         | 112             | 98.9     | 1        | 80.0-120    | <u>E</u>     | <u>E</u>      | 5.00 | 15         |

#### WG1265882

#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1088864-01

#### Method Blank (MB)

Volatile Organic Compounds (GC) by Method 8015/8021

| 19 12:15  |                                     |   |  |   |   |
|-----------|-------------------------------------|---|--|---|---|
| MB Result | MB Qualifier                        | MB MDL  | MB RDL   |   |   |
| mg/kg     |                                     | mg/kg   | mg/kg  |   |   |
| U         |                                     | 0.000120  | 0.000500   |   |   |
| U         |                                     | 0.000150  | 0.00500  |   |   |
| U         |                                     | 0.000110  | 0.000500   |   |   |
| U         |                                     | 0.000460  | 0.00150  |   |   |
| 0.0219    | <u> 7</u>                           | 0.0217  | 0.100  |   |   |
| 106       |                                     |   | 77.0-120   |   |   |
| 99.8      |                                     |   | 72.0-128   |   |   |
|           | MB Result mg/kg  U  U  U  U  0.0219 | MB Result MB Qualifier mg/kg  U U U U 0.0219  106 | MB Result mg/kg         MB Qualifier mg/kg         MB MDL mg/kg           U         0.000120           U         0.000150           U         0.000110           U         0.000460           0.0219         J           106 | MB Result mg/kg         MB Qualifier mg/kg         MB MDL mg/kg         MB RDL mg/kg           U         0.000120         0.000500           U         0.000150         0.00500           U         0.000110         0.000500           U         0.000460         0.00150           0.0219         J         0.0217         0.100           106         77.0-120 | MB Result mg/kg         MB Qualifier mg/kg         MB MDL mg/kg         MB RDL mg/kg           U         0.000120         0.000500           U         0.000150         0.00500           U         0.000110         0.000500           U         0.000460         0.00150           0.0219         J         0.0217         0.100           106         77.0-120 |

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) R3401729-1 04/14/1           | 19 10:33 • (LCSD) | R3401729-2 | 04/14/19 10:53 |          |           |             |               |                |      |            |  |
|------------------------------------|-------------------|------------|----------------|----------|-----------|-------------|---------------|----------------|------|------------|--|
|                                    | Spike Amount      | LCS Result | LCSD Result    | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |  |
| Analyte                            | mg/kg             | mg/kg      | mg/kg          | %        | %         | %           |               |                | %    | %          |  |
| Benzene                            | 0.0500            | 0.0500     | 0.0517         | 99.9     | 103       | 76.0-121    |               |                | 3.44 | 20         |  |
| Toluene                            | 0.0500            | 0.0482     | 0.0501         | 96.5     | 100       | 80.0-120    |               |                | 3.78 | 20         |  |
| Ethylbenzene                       | 0.0500            | 0.0535     | 0.0558         | 107      | 112       | 80.0-124    |               |                | 4.14 | 20         |  |
| Total Xylene                       | 0.150             | 0.157      | 0.163          | 105      | 109       | 37.0-160    |               |                | 3.50 | 20         |  |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                   |            |                | 105      | 105       | 77.0-120    |               |                |      |            |  |
| (S)<br>a,a,a-Trifluorotoluene(PID) |                   |            |                | 99.5     | 98.9      | 72.0-128    |               |                |      |            |  |

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) R3401729-3 04/14/            | (19 11:13 • (LCSD) | R3401729-4 | 04/14/19 11:34 |          |           |             |               |                |      |            |  |
|------------------------------------|--------------------|------------|----------------|----------|-----------|-------------|---------------|----------------|------|------------|--|
|                                    | Spike Amount       | LCS Result | LCSD Result    | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |  |
| Analyte                            | mg/kg              | mg/kg      | mg/kg          | %        | %         | %           |               |                | %    | %          |  |
| TPH (GC/FID) Low Fraction          | 5.50               | 4.90       | 5.08           | 89.1     | 92.3      | 72.0-127    |               |                | 3.59 | 20         |  |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                    |            |                | 93.6     | 93.8      | 77.0-120    |               |                |      |            |  |
| (S)<br>a,a,a-Trifluorotoluene(PID) |                    |            |                | 100      | 101       | 72.0-128    |               |                |      |            |  |

#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC) by Method 8015/8021

L1088864-0

#### L1088390-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) L1088390-07 04/14             | /19 18:23 • (MS) F | R3401729-6 04   | 1/14/19 19:24 • | (MSD) R340172 | 29-7 04/14/19 | 19:45    |          |             |              |               |      |            |  |
|------------------------------------|--------------------|-----------------|-----------------|---------------|---------------|----------|----------|-------------|--------------|---------------|------|------------|--|
|                                    | Spike Amount       | Original Result | MS Result       | MSD Result    | MS Rec.       | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |  |
| Analyte                            | mg/kg              | mg/kg           | mg/kg           | mg/kg         | %             | %        |          | %           |              |               | %    | %          |  |
| Benzene                            | 0.0500             | 4.16            | 29.6            | 27.7          | 102           | 94.1     | 500      | 10.0-155    |              |               | 6.79 | 32         |  |
| Toluene                            | 0.0500             | 21.5            | 44.2            | 41.5          | 90.7          | 79.7     | 500      | 10.0-160    |              |               | 6.41 | 34         |  |
| Ethylbenzene                       | 0.0500             | ND              | 54.8            | 51.2          | 219           | 205      | 500      | 10.0-160    | <u>J5</u>    | <u>J5</u>     | 6.78 | 32         |  |
| Total Xylene                       | 0.150              | 33.6            | 125             | 119           | 122           | 113      | 500      | 10.0-160    | <u>J5</u>    | J5 J6         | 5.41 | 32         |  |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                    |                 |                 |               | 104           | 103      |          | 77.0-120    |              |               |      |            |  |
| (S)<br>a,a,a-Trifluorotoluene(PID) |                    |                 |                 |               | 103           | 102      |          | 72.0-128    |              |               |      |            |  |

#### L1088390-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) L1088390-07 04/14/            | /19 18:23 • (MS) F | R3401729-8 04   | 1/14/19 20:05 | • (MSD) R34017 | 29-9 04/14/1 | 9 20:26  |          |             |              |               |      |            |  |
|------------------------------------|--------------------|-----------------|---------------|----------------|--------------|----------|----------|-------------|--------------|---------------|------|------------|--|
|                                    | Spike Amount       | Original Result | MS Result     | MSD Result     | MS Rec.      | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |  |
| Analyte                            | mg/kg              | mg/kg           | mg/kg         | mg/kg          | %            | %        |          | %           |              |               | %    | %          |  |
| TPH (GC/FID) Low Fraction          | 5.50               | 3150            | 4490          | 4760           | 48.8         | 58.5     | 500      | 10.0-151    |              |               | 5.78 | 28         |  |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                    |                 |               |                | 105          | 106      |          | 77.0-120    |              |               |      |            |  |
| (S)<br>a,a,a-Trifluorotoluene(PID) |                    |                 |               |                | 106          | 107      |          | 72.0-128    |              |               |      |            |  |



















#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Semi-Volatile Organic Compounds (GC) by Method 8015

#### L1088864-01

#### Method Blank (MB)

(S) o-Terphenyl

| (MB) R3401835-1 04/15 | /19 12:49 |              |        |          |
|-----------------------|-----------|--------------|--------|----------|
|                       | MB Result | MB Qualifier | MB MDL | MB RDL   |
| Analyte               | mg/kg     |              | mg/kg  | mg/kg    |
| C10-C28 Diesel Range  | U         |              | 1.61   | 4.00     |
| C28-C40 Oil Range     | U         |              | 0.274  | 4.00     |
| (S) o-Terphenyl       | 71.6      |              |        | 18.0-148 |





















| Laboratory Contr                     | ol Sample (L       | CS) • Labo    | oratory Con      | trol Samp | le Duplicate | e (LCSD)    |               |                |      |            |  |
|--------------------------------------|--------------------|---------------|------------------|-----------|--------------|-------------|---------------|----------------|------|------------|--|
| (LCS) R3401835-2 04/1                | 5/19 13:05 • (LCSE | D) R3401835-3 | 3 04/15/19 13:21 |           |              |             |               |                |      |            |  |
|                                      | Spike Amount       | LCS Result    | LCSD Result      | LCS Rec.  | LCSD Rec.    | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |  |
| Analyte                              | mg/kg              | mg/kg         | mg/kg            | %         | %            | %           |               |                | %    | %          |  |
| Extractable Petroleum<br>Hydrocarbon | 50.0               | 33.2          | 29.4             | 66.4      | 58.8         | 50.0-150    |               |                | 12.1 | 20         |  |
| C10-C28 Diesel Range                 | 50.0               | 35.9          | 31.9             | 71.8      | 63.8         | 50.0-150    |               |                | 11.8 | 20         |  |

18.0-148

82.4

70.7

#### **GLOSSARY OF TERMS**

#### Guide to Reading and Understanding Your Laboratory Report

times of preparation and/or analysis.

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

#### Abbreviations and Definitions

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

| Qualifier | Description   |
|-----------|---|
| Е         | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.   |
| J5        | The sample matrix interfered with the ability to make any accurate determination; spike value is high.                                      |
| J6        | The sample matrix interfered with the ability to make any accurate determination; spike value is low.                                       |





















Sample Summary (Ss)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and



Ss Cn Sr

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

#### State Accreditations

| Alabama               | 40660       | Nebraska           | NE-OS-15-05      |
|-----------------------|-------------|--------------------|------------------|
| Alaska                | 17-026      | Nevada             | TN-03-2002-34    |
| Arizona               | AZ0612      | New Hampshire      | 2975             |
| Arkansas              | 88-0469     | New Jersey-NELAP   | TN002            |
| California            | 2932        | New Mexico 1       | n/a              |
| Colorado              | TN00003     | New York           | 11742            |
| Connecticut           | PH-0197     | North Carolina     | Env375           |
| Florida               | E87487      | North Carolina 1   | DW21704          |
| Georgia               | NELAP       | North Carolina 3   | 41               |
| Georgia 1             | 923         | North Dakota       | R-140            |
| Idaho                 | TN00003     | Ohio-VAP           | CL0069           |
| Illinois              | 200008      | Oklahoma           | 9915             |
| Indiana               | C-TN-01     | Oregon             | TN200002         |
| Iowa                  | 364         | Pennsylvania       | 68-02979         |
| Kansas                | E-10277     | Rhode Island       | LAO00356         |
| Kentucky 16           | 90010       | South Carolina     | 84004            |
| Kentucky <sup>2</sup> | 16          | South Dakota       | n/a              |
| Louisiana             | Al30792     | Tennessee 1 4      | 2006             |
| Louisiana 1           | LA180010    | Texas              | T104704245-18-15 |
| Maine                 | TN0002      | Texas <sup>5</sup> | LAB0152          |
| Maryland              | 324         | Utah               | TN00003          |
| Massachusetts         | M-TN003     | Vermont            | VT2006           |
| Michigan              | 9958        | Virginia           | 460132           |
| Minnesota             | 047-999-395 | Washington         | C847             |
| Mississippi           | TN00003     | West Virginia      | 233              |
| Missouri              | 340         | Wisconsin          | 9980939910       |
| Montana               | CERT0086    | Wyoming            | A2LA             |

#### Third Party Federal Accreditations

| A2LA - ISO 17025   | 1461.01 | AIHA-LAP,LLC EMLAP | 100789        |
|--------------------|---------|--------------------|---------------|
| A2LA - ISO 17025 5 | 1461.02 | DOD                | 1461.01       |
| Canada             | 1461.01 | USDA               | P330-15-00234 |
| EPA-Crypto         | TN00003 |                    |               |

<sup>&</sup>lt;sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

#### Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



|  |                             |             |              |               | Billing Information:           |              |               |  | Analysis / Container / Preservative              |                                       |              |             |          |  |  |  | Chain of Customy                                 | · •a•                        |
|--|-----------------------------|-------------|--------------|---------------|--------------------------------|--------------|---------------|--|--|---------------------------------------|--------------|-------------|----------|--|--|--|--|------------------------------|
| HilCorp-Farmington, 1  | MI                          |             |              |               |                                | Pres         |               |  |  |                                       |              |             |          |  |  |  |  | •                            |
|  |                             |             | PO Box 6     | 51529         |                                | Chk          | <u></u>       |  |  | <u> </u>                              |              |             |          |  | L  |  | PaceA  | nalytical*                   |
| 382 Road 3100  |                             |             | Houston      | , TX 77208    |                                |              |               |  | İ  | -                                     |              |             |          | -  |  |  | National Cars                                    | ter for Testing & Innovation |
| Aztec, NM 87401  |                             |             | 161-0        | oladon B      | hilcory                        | . CDIM       |               | ŀ  |  | ĺ                                     |              |             |          |  |  | l  | la .   |                              |
| Report to:   | ·                           |             | Email To:    | C.K.S.TVB.    | MACH                           | V.COVI       | MED           |  |  |                                       | [            |             |          |  |  |  | 12065 Lebanon Rd                                 |                              |
| CLARA CARTOZ   | 24-                         |             | ceard        | Sozach        | drovn.                         | com          | 3             |  |  | 1                                     |              |             |          |  |  | ·  | Mount Juliet, TN 371<br>Phone: 615-758-5858      |                              |
| Project  |                             |             | City/State   |               |                                |              | 1 -           | <u> </u>   | Ì  | 1                                     |              |             | İ        | ŀ  | 1  |  | Phone: 800-767-5859<br>Fax: 615-758-5859         |                              |
| Description:   |                             | ·           | <del></del>  | Collected:    |                                | 033          |               |  | 1  |                                       | . 1          |             |          |  |  | 114  | 2 60111  |                              |
| Phone: <b>505-486-9543</b>                                   | Client Project              | #           |              | Lab Project # |                                |              |               |  |  |                                       |              |             |          |  |  |  |  | 88864                        |
| Fax:   |                             |             |              |               |                                |              | DRO           |  |  |                                       |              | i           |          | ł  |  | 1  | E21  | •                            |
| Collected by (print):  | Site/Facility IC            |             | 4            | P.O. #        |                                |              | 1 4           | اً ا   |  |                                       |              |             |          |  |  |  |  |                              |
| kue T  | NYE                         | FEDER       | PALTI        |               |                                |              | ہم            | 7  | l w  |                                       |              |             |          |  |  |  | Acctnum: HILC                                    | UKANIVI                      |
| Collected by (signature):                                    | Rush? (l                    | ab MUST Be  | Notified)    | Quote#        | •                              |              | 1 %           | 208  | 0  | <u> </u>                              |              |             |          |  |  |  | Template:  |                              |
| Kurt Haletto   | Now Do                      | Five C      | (Pad Dald    | 275.0         | esults Needed                  | <del></del>  | 8015          | 1  | LOIEID   | .]                                    | 1            |             |          |  |  |  | Prelogin:<br>TSR: 288 - Daph                     | aa Diahaada                  |
| Immediately  |                             |             |              |               | esuits Needed                  | No.          |               | ▎쏬   | l q  |                                       |              |             |          |  |  |  | 15K: 286 - Daph<br>PB:                           | ne kicharas                  |
| Packed on Ice N Y X  | cked on Ice N Y X Three Day |             |              |               |                                | of           | Ha            |  | بر ا   |                                       |              |             |          |  |  | 1  | Shipped Via:                                     |                              |
| Sample ID  | Comp/Grab                   | Matrix *    | Depth        | Date          | Time                           | Cntrs        | F             | BTEX   | 3  |                                       |              |             |          |  | ļ  |  | Remarks  | Sample # (lab only)          |
| DATDI  | Λ                           | 21          |              | 14.3.         | <u> </u>                       |              | ×             | X  | X  | +                                     |              |             |          | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | -01                          |
| BGT PH   | Comp                        | <u> నంగ</u> | 1            | 4-12-1        | 9 10:1                         |              | <del>  </del> |  | 1  | ┼                                     |              |             |          | -  | ┼  | -  | <del>                                     </del> | 201                          |
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| <u>. ,</u>   |                             |             |              |               |                                |              |               | j  |  | ŀ                                     |              | :           |          | l  |  | <b> </b>   |  |                              |
|  |                             |             |              |               |                                |              |               |  |  |                                       |              |             |          |  |  |  |  |                              |
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|  |                             |             |              | <u> </u>      |                                |              | <u></u>       | ļ  |  | <u></u>                               |              |             |          |  | <u> </u>   | <u> </u>   | 1  |                              |
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|  |                             |             | Ι.           |               |                                |              |               | · .  |  | T                                     |              |             |          |  |  |  |  |                              |
| Matrix:  | Remarks:                    | <del></del> | .1`          |               |                                |              | <u></u>       | ——   | 1  |                                       |              | <u> </u>    | <u> </u> | <b></b>  | <del>                                     </del> | Sam  | ple Receipt Ch                                   | ecklist                      |
| SS - Soil AIR - Air F - Filter GW - Groundwater B - Bloassay |                             |             |              |               |                                | i            |               |  |  | рН                                    |              | Tem         | P        |  | COC S  | Seal P<br>Signed                                 | resent/Intact:<br>/Accurate:                     | NP Y N                       |
| W · WasteWater   |                             |             |              |               | •                              | *            |               |  |  | Flo                                   | w            | Oth         | er       |  | Bott1  | les ar   | rive intact:                                     |                              |
| W - Drinking Water - Other / UPS FedEx Courier               |                             |             |              |               |                                |              | 2             | Ø  | 0,1  |                                       | 1.0          | <del></del> |          |  | Suffi  | cient  | volume sent:                                     |                              |
|  |                             |             |              |               | Tracking #                     |              | 95            | <u> </u>   | 94   |                                       | 49           |             |          |  | VOA Zero Headspace: Y N                          |  |  |                              |
| Relinquished by: (Signature)                                 |                             |             |              |               | Time: Received by: (Signature) |              |               |  |  | Trip Bla                              | nk Rece      | ived: \     | es (No   |  | Pres   | D'SC   | on correct/ch                                    | Wind - A                     |
| furt blacketts 4-12-19                                       |                             |             | 247          | 11:0D         |                                |              |               |  |  |                                       |              |             | TBR      |  | <u> </u>   |  |  |                              |
| linquished by : (Signature) . Date:                          |                             |             |              | rime:         | Received by: (Signature)       |              |               |  |  | Temp: °C Bottles Received: If preserv |              |             |          |  |  | servatio   | on required by Lot                               | gin: Date/Time               |
| • • • • • • • • • • • • • • • • • • •                        |                             |             |              |               |                                |              |               |  | Ba   | B.2-0,321.944                         |              |             |          |  |  |  |  |                              |
| Relinquished by : (Signature)                                |                             | Date:       | 7            | lime:         | Received for h                 | b by: (Slen) | ature)        |  |  | Date: / Time: Hold                    |              |             |          |  | Hold:  |  |  |                              |
|  |                             |             |              |               |                                | NU           | L `           |  |  | 14/9                                  | 3/(          | 9           | 8-       | د ک  |  |  |  | NCF / OF                     |