

| | |
|----------------|----------|
| Incident ID | |
| District RP | 1RP-4930 |
| 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>105</u> (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

State of New Mexico
Oil Conservation Division

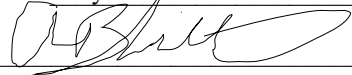
Page 4

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|----------------|----------|
| Incident ID | |
| District RP | 1RP-4930 |
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| Application ID | |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill

Title: Waste and Water Specialist

Signature: 

Date: 3/26/2020

email: ABarnhill@chevron.com

Telephone: 432-687-7108

OCD Only

Received by: _____

Date: _____

| | |
|----------------|---------------|
| Incident ID | nOY1801256310 |
| District RP | 1RP-4930 |
| Facility ID | |
| Application ID | |

Remediation Plan

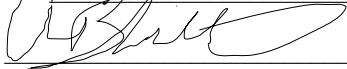
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill Title: Waste and Water Specialist
Signature:  Date: 3/26/2020
email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: _____ Date: _____

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 09/13/2021

1RP-4930
Delineation Report and Remediation Plan
Northwest Abo Unit Battery (NWAUB)
Crude Oil and Produced Water Release
Eddy County, New Mexico

Latitude: N 32.81466°
Longitude: W 103.56470°

LAI Project No. 20-0107-02

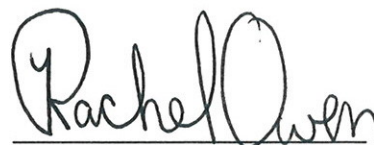
March 25, 2020

Prepared for:
Chevron USA Inc.
6301 Deauville Blvd.
Midland, Texas 79706

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 205
Midland, Texas 79701



Mark J. Larson, P.G.
Certified Professional Geologist #10490



Rachel E. Owen
Sr. Geoscientist

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1RP-4930
Delineation Report and Remediation Plan
Chevron USA, Inc., NWAUB
Crude Oil and Produced Water Release
March 25, 2020

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (OCD) District 1 for a crude oil and produced water release at the Northwest Abo Unit Battery (Site) located in Unit O (SW/4, SE/4), Section 21, Township 17 South, Range 34 East in Lea County New Mexico. The geodetic position is North 32.81466° and West -103.56470°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release occurred on December 28, 2017, due to a water pump failure. Approximately 1.52 barrels (bbls) of crude oil were released and approximately 1 bbl was recovered. Approximately 11.06 bbls of produced water were released and 10 bbls were recovered. The affected area measures approximately 4,342 square feet. Appendix A presents the Chevron spill volume calculation and documentation. The initial C-141 was submitted on January 11, 2018 and assigned a Remediation Permit number of 1RP-4930.

Between March 25 and 31, 2018, BBC International, Inc. (BBC) personnel collected soil samples inside the spill area and in each cardinal direction outside of the spill for horizontal and vertical delineation. The soil samples were delivered to Cardinal Laboratories in Hobbs, New Mexico and were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35) by EPA SW-846 Methods 8021B and 8015M, respectively, and chloride by Method SM4500CL-B. Benzene and BTEX were reported below method reporting limits in all samples. TPH was reported above the OCD delineation limit of 100 mg/Kg in the following samples:

| | |
|-----------------------|-----------------------|
| SP1, 1' (1,412 mg/Kg) | SP1, 2' (2,266 mg/Kg) |
| SP1, 3' (237 mg/Kg) | SP1, 4' (604 mg/Kg) |
| SP2, 1' (3,077 mg/Kg) | SP2, 2' (403.9 mg/Kg) |
| SP2, 3' (101.3 mg/Kg) | SP3, 1' (1,340 mg/Kg) |
| SP3, 2', (590 mg/Kg) | SP4, 1' (3,454 mg/Kg) |
| SP4, 2' (548 mg/Kg) | SP5, 1' (279.9 mg/Kg) |
| SP5, 2' (131.8 mg/Kg) | SP6, 1' (3,134 mg/Kg) |
| SP7, 1' (464.6 mg/Kg) | SP7, 2' (212.6 mg/Kg) |
| SP7, 5' (540 mg/Kg) | |

Chloride was reported above the OCD delineation limit of 600 milligrams per kilogram (mg/Kg) in samples SP-6, 1 foot below ground surface (bgs) (2,080 mg/Kg) and SP-6, 2 feet bgs (656 mg/Kg).

BBC submitted the data to OCD on June 20, 2018, in a report titled, "Delineation Workplan". OCD denied approval of the work plan on July 19, 2018, because the plan would leave TPH in soil at concentrations above the OCD remediation limit of 100 mg/Kg and TPH at sample location SP-7 was not delineated below the OCD delineation limit of 100 mg/Kg. OCD requested Chevron to complete the TPH delineation for SP-7 and to resubmit an appropriate remediation plan for the release. Appendix B presents the BBC Delineation Workplan. Appendix C presents regulatory communications.

1RP-4930
Delineation Report and Remediation Plan
Chevron USA, Inc., NWAUB
Crude Oil and Produced Water Release
March 25, 2020

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 4,073 feet above mean sea level (msl);
- The surface topography gradually decreases to the southeast;
- Surface water is present approximately 928 feet northwest of the site;
- The soils are designated as “Kimbrough-Lea complex, dry, 0 to 3 percent slopes”, consisting of 0 to 3 inches of gravelly loam, underlain by 3 to 10 inches of loam, and 10 to 80 inches of cemented material (caliche);
- The geology consists of alluvial and eolian deposits of the Ogallala Formation (Lower Pliocene to middle Miocene);
- Groundwater was reported in a well at approximately 105 feet below ground surface (bgs) in 1974;
- According to the New Mexico Office of the State Engineer (OSE) website the nearest freshwater well (L-03616-S6) is located in Unit N (SE/4, SW/4) in Section 21, Township 17 South, Range 34 East approximately 0.12 miles or 608 feet southwest of the Site.

1.3 Remediation Action Levels

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 100 mg/Kg
- Chloride 600 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On February 10, 2020, LAI personnel used direct push technology (DPT) to collect additional soil samples from SP-7 to complete delineation for TPH. Samples were collected at 6, 10, 15, and 20 feet bgs. The soil samples were delivered under chain of custody and preservation to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas. The laboratory analyzed the samples for TPH, including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35) by EPA SW-846 Method 8015M. Figure 2 presents an aerial map showing the delineation soil sample location. The laboratory reported TPH below the delineation limit of 100 milligrams per kilogram (mg/Kg) all samples. Table 1 presents the soil sample analytical data summary. Appendix D presents the laboratory reports.

3.0 Remediation Plan

Chevron proposes the following remedial actions:

- Excavate soil from an area measuring approximately 492 square feet, encompassing SP-1 to 4.1 feet bgs,

1RP-4930
Delineation Report and Remediation Plan
Chevron USA, Inc., NWAUB
Crude Oil and Produced Water Release
March 25, 2020

- Excavate soil from an area measuring approximately 3,062 square feet encompassing SP-2, SP-3, SP-4, and SP-5 to 3 feet bgs;
- Excavate soil from an area measuring approximately 487 square feet encompassing SP-6 to 4.1 feet bgs, and 301 square feet encompassing SP-7 to 6 feet bgs;
- Collect five (5) point composite bottom and sidewall confirmation soil samples for every 200 square feet of excavation and analyze for BTEX, TPH and chloride;
- Backfill excavations with clean topsoil up to 2 feet bgs and up to surface with clean caliche on the pad assuming achievement of OCD remediation levels; and
- Prepare report with photographs for submittal to OCD District 1.

Figure 3 presents the proposed excavation areas.

Tables

Table 1
Soil Sample Analytical Data Summary
NWAUB
Lea County, New Mexico
North 32 48' 52.78", West 103 33' 52.84"

Page 1 of 1

| Sample | Depth (Feet) | Collection Date | Status | C6 - C12 (mg/Kg) | C12 - C28 (mg/Kg) | C28 - C35 (mg/Kg) | TPH (mg/Kg) |
|--------------------|-----------------|--------------------|---------|---------------------|----------------------|----------------------|----------------|
| Remediation Level: | | | | | | | 100 / 2,500 |
| SP-7 | 6 | 2/10/2020 | In-Situ | <50.0 | <50.0 | <50.0 | <50.0 |
| | 10 | 2/10/2020 | In-Situ | <49.9 | <49.9 | <49.9 | <49.9 |
| | 15 | 2/10/2020 | In-Situ | <49.9 | <49.9 | <49.9 | <49.9 |
| | 20 | 2/10/2020 | In-Situ | <49.9 | <49.9 | <49.9 | <49.9 |

Notes: Analysis performed by Xenco Laboratories

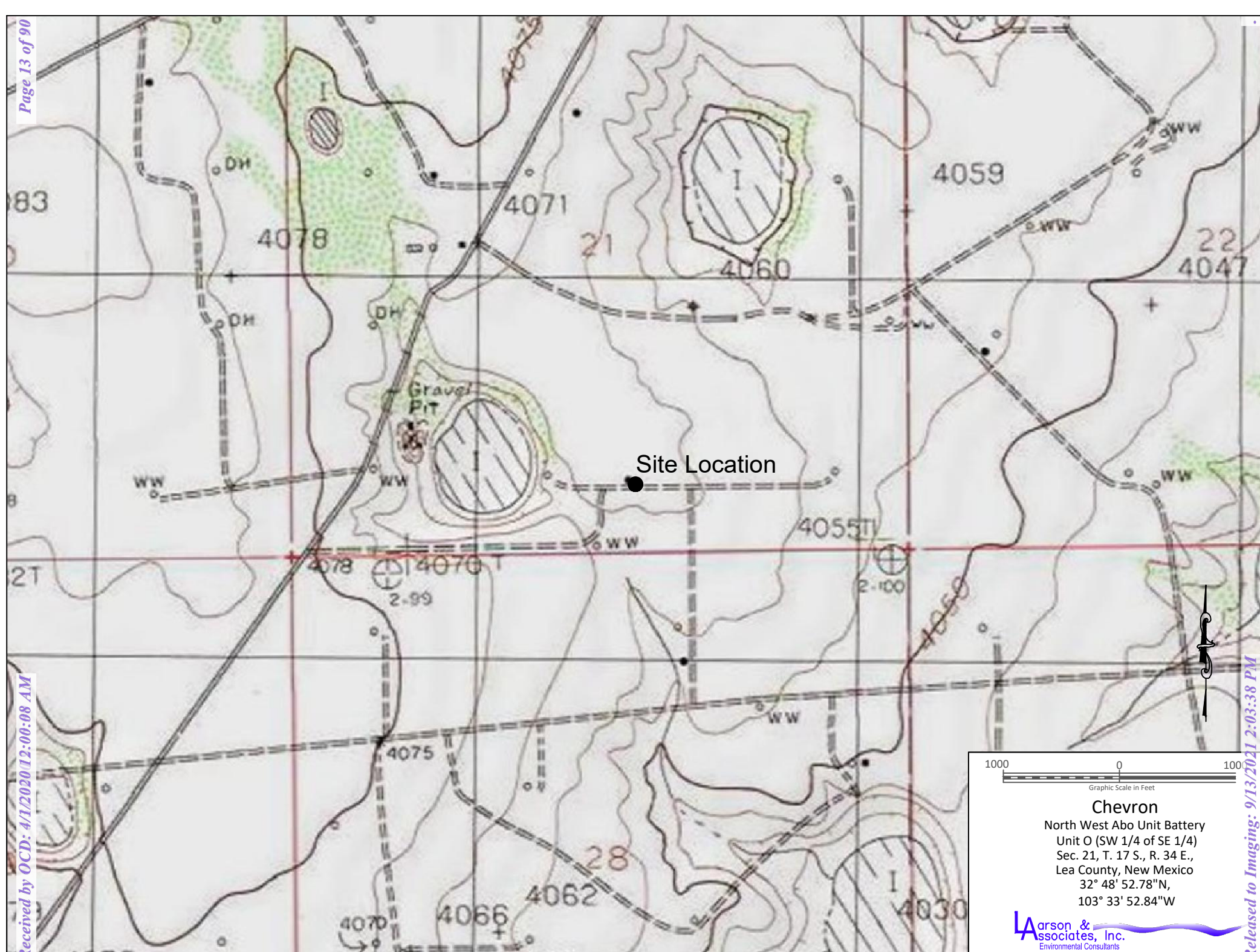
Depth in feet below ground surface (bgs)

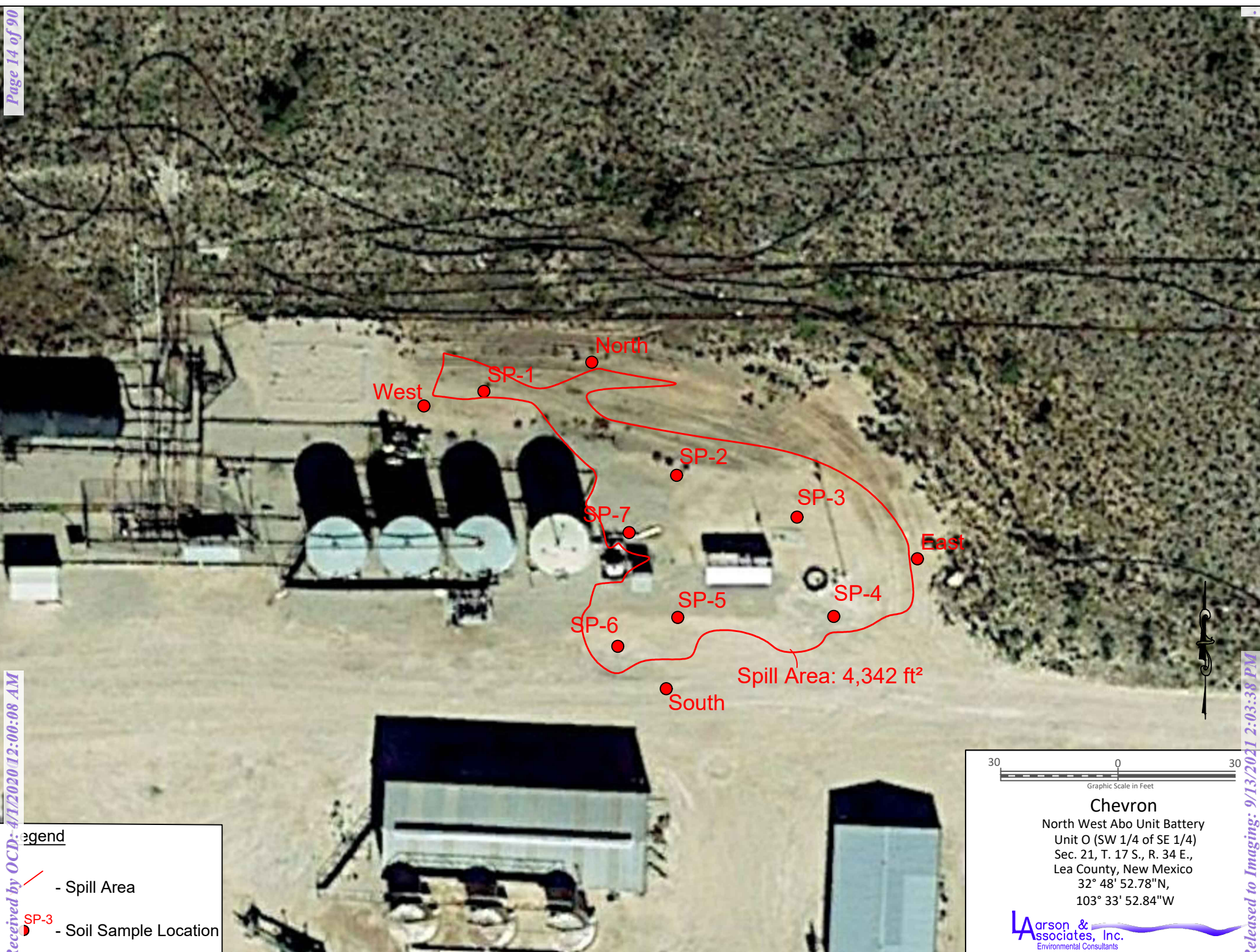
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

Figures





Legend

- Spill Area
- SP-3 - Soil Sample Location



Chevron
 North West Abo Unit Battery
 Unit O (SW 1/4 of SE 1/4)
 Sec. 21, T. 17 S., R. 34 E.,
 Lea County, New Mexico
 32° 48' 52.78"N,
 103° 33' 52.84"W

Larson & Associates, Inc.
 Environmental Consultants

Figure 2 - Aerial Map

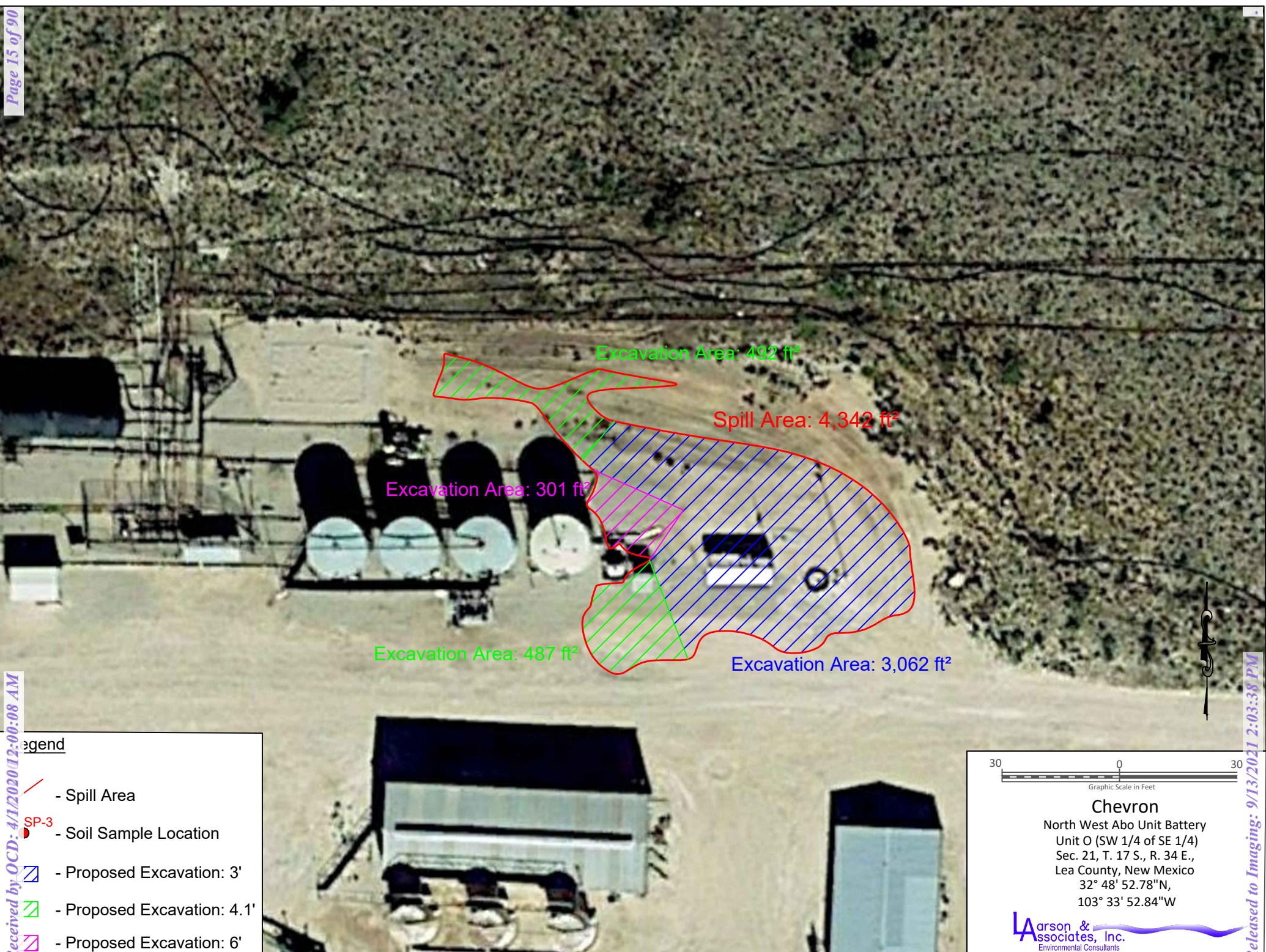


Figure 3 - Aerial Map Showing Proposed Excavations

Appendix A

Initial 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 August 8, 2011

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 | Chevron USA Inc. | Contact | Josepha DeLeon |
| Address | 6301 Deauville Blvd., Midland, TX 79706 | Telephone No. | wk: 575-263-0424 cell: 432-425-1528 |
| Facility Name | North West Abo Unit Battery | Facility Type: | Battery |
| Surface Owner | State | Mineral Owner | State of New Mexico |
| | | API No. | See attached |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| O | 21 | 17S | 34E | | | | | Lea |

Latitude 32.814740 Longitude; -103.564660

NATURE OF RELEASE

| | | | | | |
|-----------------------------|---|---|---|----------------------------|--|
| Type of Release | Spill | Volume of Release: | 1.52 barrels oil; 11.06 barrels produced water | Volume Recovered: | 1 barrels oil 10 barrels produced water |
| Source of Release | Water pump failure | Date and Hour of Occurrence | 12/28/2017; 05:12 AM | Date and Hour of Discovery | 12/28/2017; 08:00 AM |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | Olivia Yu / Maxey Brown - email | | |
| By Whom? | Josepha DeLeon | Date and Hour: | 12/28/2017; 10:08 AM | | |
| 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.*

N/A

RECEIVED

By Olivia Yu at 3:16 pm, Jan 12, 2018



Describe Cause of Problem and Remedial Action Taken.*

Loss of power causing an interruption in instrument air supply, water pump failure and resulting in a release of 1.52 barrels oil and 11.06 barrels produced water to caliche pad. Recovered 1 barrel of oil and 10 barrels produced water.

Describe Area Affected and Cleanup Action Taken.*

Spill within Tank Battery's caliche pad. None of the material went off the pad. Remediation to follow. Shut lease in. Vacuum truck extracted liquid. Manually opened valve to equalize to other tanks.

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: |  | | | <u>OIL CONSERVATION DIVISION</u> | |
| Printed Name: | Josepha DeLeon | | | Approved by Environmental Specialist:  | |
| Title: | HES Compliance Support - Environmental | | | Approval Date: | 1/12/2018 |
| E-mail Address: | jdx@chevron.com | | | Expiration Date: | |
| Date | 01/11/2018 | | | Conditions of Approval: | Attached <input checked="" type="checkbox"/> |
| Phone: | 432-425-1528 | | | see attached directive | |

* Attach Additional Sheets If Necessary

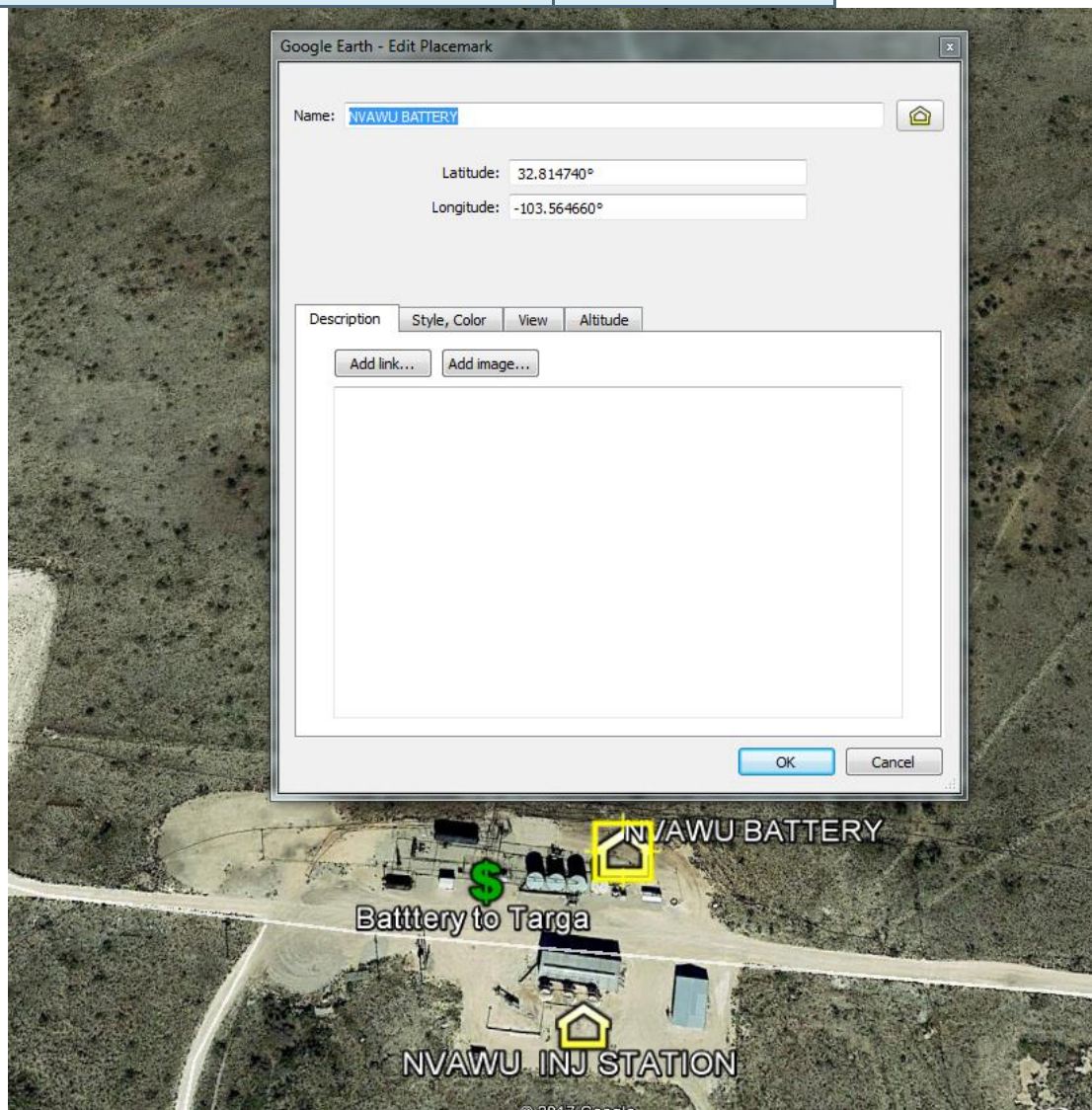
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pOY1801255305

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| NVAWU 01 | 3002525652 |
| NVAWU 11 2 | 3002524019 |
| NVAWU 30 | 3002533987 |
| NVAWU 31 | 3002533988 |
| NVAWU 06 H | 3002524026 |
| NVAWU 08 | 3002524061 |
| NVAWU 09 | 3002524064 |
| NVAWU 10H | 3002524062 |
| NVAWU 13 | 3002524046 |
| NVAWU 14 | 3002523944 |
| NVAWU 19 | 3002523880 |
| NVAWU 29H | 3002534668 |
| NVAWU 20H | 3002523915 |
| NVAWU 23 | 3002524050 |
| NVAWU 24H | 3002524087 |
| NVAWU 26 | 3002533637 |
| NVAWU 27 | 3002533638 |
| NVAWU 28H | 3002533926 |
| NVAWU 32 | 3002534094 |



Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/11/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4930 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 2/12/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Appendix B

BBC Report



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

CHEVRON – NORTH WEST ABO UNIT BATTERY

(Leak Date: 12/28/17)

RP # 1RP-4930

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4930.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

Chevron will remediate the spill area as depicted on the following site diagram. The leak area near SP1 – SP5 and SP7 (pink shade on diagram) will be excavated to a depth of 6 inches. The leak area near SP6 (green shade on diagram) will be excavated to a depth of 2 feet.


The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.


All excavated materials will be disposed of at an NMOCD-approved disposal facility.


Chevron, North West Abo Unit Battery


Leak date: 12/28/2017
Lea County, NM
API# see attached C-141
1RP-4930


Legend

 2 ft Excavation

 6 in Scrape

 Cardinal sample points

 Leak Area

 Sample points



Chevron, North West Abo Unit Battery

Sample points

SP1, N 32.81484 W-103.56479

SP2, N 32.81478 W-103.56463

SP3, N 32.81475 W-103.56453

SP4, N 32.81468 W-103.56450

SP5, N 32.81468 W-103.56463

SP6, N 32.81466 W-103.56468

SP7, N 32.81474 W-103.56467

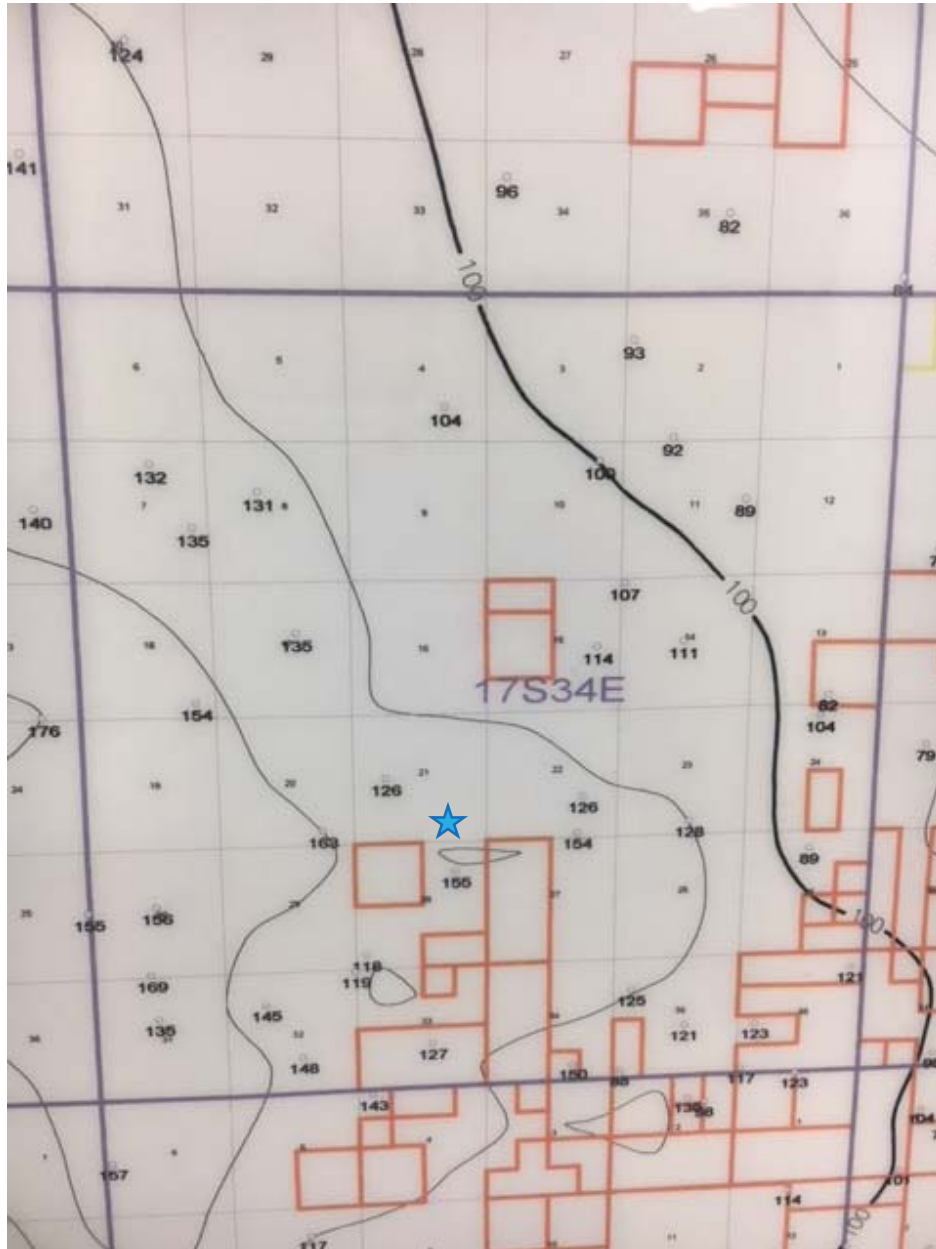
NORTH, N 32.81486 W-103.56470

SOUTH, N 32.81463 W-103.56464

EAST, N 32.81472 W-103.56443

WEST, N 32.81483 W-103.56484

**Chevron N Vacuum Abo W TB
U/L O, Section 21, T17S, R34E
Lea County, NM
Groundwater: 50'-75'**





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 |
|-------------------------------|--------------|-------|--------|------|------|-----|-----|-----|--------|----------|----------|----------|------------|-------------|--------------|
| L 03616 S6 | L | LE | | 4 | 4 | 3 | 21 | 17S | 34E | 634177 | 3631573* | 321 | 232 | 105 | 127 |
| L 03398 | L | LE | | 2 | 2 | 28 | 17S | 34E | 634888 | 3631285* | 568 | 242 | 125 | 117 | |
| L 03616 S3 | L | LE | | 2 | 2 | 4 | 21 | 17S | 34E | 634974 | 3632189* | 708 | 242 | 121 | 121 |
| L 06897 | L | LE | | 3 | 4 | 2 | 21 | 17S | 34E | 634768 | 3632392* | 767 | 176 | 118 | 58 |
| L 03616 S5 | L | LE | | 4 | 3 | 1 | 22 | 17S | 34E | 635370 | 3632398* | 1142 | 245 | 138 | 107 |
| L 02724 S | L | LE | | 4 | 4 | 3 | 22 | 17S | 34E | 635739 | 3631673 | 1258 | 242 | 110 | 132 |
| L 02724 POD9 | L | LE | | 4 | 4 | 3 | 22 | 17S | 34E | 635785 | 3631601* | 1307 | 240 | 170 | 70 |
| L 04624 | L | LE | | 1 | 1 | 21 | 17S | 34E | 633659 | 3632876* | 1449 | 186 | 170 | 16 | |
| L 03616 S4 | L | LE | | 4 | 1 | 22 | 17S | 34E | 635674 | 3632507* | 1451 | 244 | 105 | 139 | |
| L 06760 | L | LE | | 1 | 1 | 1 | 22 | 17S | 34E | 635163 | 3633000* | 1485 | 162 | 98 | 64 |
| L 02724 POD10 | L | LE | | 1 | 4 | 4 | 27 | 17S | 34E | 635884 | 3630725 | 1698 | 250 | 164 | 86 |

Average Depth to Water: **129 feet**

Minimum Depth: **98 feet**

Maximum Depth: **170 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 634480

Northing (Y): 3631681

Radius: 1700

*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.

1/17/18 11:27 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

☒ Q64: Q16: SW Q4: SE Sec: 21 Tws: 17S Rng: 34E

State Plane Coordinate System - NAD27

☐ X: 0 ft Y: 0 ft Zone:

State Plane Coordinate System - NAD83

☐ X: 0 ft Y: 0 ft Zone:

Degrees/Minutes/Seconds

☐ Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

UTM - NAD27

☐ Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:

SUBMIT**All Conversion Results are displayed as NAD 1983 UTM Zone 13**

Easting (X): 634480.0 mtrs Northing (Y): 3631681.0 mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
North Vacuum Abo West Battery

| | | Sample ID | SP1 @ 1' | SP1 @ 2' | SP1 @ 3' | SP1 @ 4' | SP1 @ 5' |
|---------------|------------|-----------|----------|----------|----------|----------|----------|
| Analyte | Method | Date | 5/25/18 | 5/25/18 | 5/25/18 | 5/25/18 | 5/25/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 64 | 32 | 16 | 16 | 64 |
| GRO | TPH 8015M | | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 1120 | 1810 | 174 | 451 | 11.8 |
| EXT DRO | TPH 8015M | | 292 | 456 | 63 | 153 | <10.0 |

| | | Sample ID | SP2 @ 1' | SP2 @ 2' | SP2 @ 3' | SP2 @ 4' | SP2 @ 5' |
|---------------|------------|-----------|----------|----------|----------|----------|----------|
| Analyte | Method | Date | 5/25/18 | 5/25/18 | 5/25/18 | 5/25/18 | 5/25/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 144 | 16 | 48 | 16 | 80 |
| GRO | TPH 8015M | | <50.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 2490 | 310 | 69.1 | <10.0 | 16.4 |
| EXT DRO | TPH 8015M | | 587 | 93.9 | 32.2 | <10.0 | <10.0 |

| | | Sample ID | SP3 @ 1' | SP3 @ 2' | SP3 @ 3' | SP3 @ 4' |
|---------------|------------|-----------|----------|----------|----------|----------|
| Analyte | Method | Date | 5/29/18 | 5/29/18 | 5/29/18 | 5/29/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 32 | 48 | 48 | 64 |
| GRO | TPH 8015M | | <10.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 1060 | 473 | 24.6 | 16.7 |
| EXT DRO | TPH 8015M | | 280 | 117 | <10.0 | <10.0 |

| | | Sample ID | SP4 @ 1' | SP4 @ 2' | SP4 @ 3' | SP4 @ 4' |
|---------------|------------|-----------|----------|----------|----------|----------|
| Analyte | Method | Date | 5/29/18 | 5/29/18 | 5/29/18 | 5/29/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 144 | 64 | 48 | 48 |
| GRO | TPH 8015M | | <50.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 2780 | 466 | <10.0 | <10.0 |
| EXT DRO | TPH 8015M | | 674 | 82 | <10.0 | <10.0 |

| | | Sample ID | SP5 @ 1' | SP5 @ 2' | SP5 @ 3' |
|---------------|------------|-----------|----------|----------|----------|
| Analyte | Method | Date | 5/29/18 | 5/30/18 | 5/30/18 |
| | | | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 112 | 528 | 480 |
| GRO | TPH 8015M | | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 183 | 101 | 21.6 |
| EXT DRO | TPH 8015M | | 96.9 | 30.8 | <10.0 |

| | | Sample ID | SP6 @ 1' | SP6 @ 2' | SP6 @ 3' | SP6 @ 4' |
|---------------|------------|-----------|----------|----------|----------|----------|
| Analyte | Method | Date | 5/30/18 | 5/30/18 | 5/30/18 | 5/30/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 2080 | 656 | 576 | 160 |
| GRO | TPH 8015M | | <50.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 2460 | 12.1 | <10.0 | <10.0 |
| EXT DRO | TPH 8015M | | 674 | <10.0 | <10.0 | <10.0 |

| | | Sample ID | SP7 @ 1' | SP7 @ 2' | SP7 @ 3' | SP7 @ 4' | SP7 @ 5' |
|---------------|------------|-----------|----------|----------|----------|----------|----------|
| Analyte | Method | Date | 5/31/18 | 5/31/18 | 5/31/18 | 5/31/18 | 5/31/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 32 | 64 | 32 | 64 | 368 |
| GRO | TPH 8015M | | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 411 | 182 | <10.0 | 38.9 | 421 |
| EXT DRO | TPH 8015M | | 53.6 | 30.6 | <10.0 | <10.0 | 119 |

| Cardinal | | Sample ID | NORTH | EAST | WEST | SOUTH |
|---------------|------------|-----------|---------|---------|---------|---------|
| Analyte | Method | Date | 5/31/18 | 5/31/18 | 5/31/18 | 5/31/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 32 | 80 | 64 | 48 |
| GRO | TPH 8015M | | <10.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 14.2 | 11.8 | <10.0 | <10.0 |
| EXT DRO | TPH 8015M | | <10.0 | <10.0 | <10.0 | <10.0 |



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 11, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NORTH VACUUM ABO

Enclosed are the results of analyses for samples received by the laboratory on 06/04/18 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 1 @ 1' (H801507-01)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 1120 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 292 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 156 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 1 @ 2' (H801507-02)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 1810 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 456 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 210 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 1 @ 3' (H801507-03)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 174 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 63.0 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.8 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 1 @ 4' (H801507-04)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | | |
| Total BTEx | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 451 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 153 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.3 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 1 @ 5' (H801507-05)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 11.8 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 76.7 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 2 @ 1' (H801507-06)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 2490 | 50.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 587 | 50.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 69.2 % 41-142

Surrogate: 1-Chlorooctadecane 201 % 37.6-147

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 Cliff Brunson
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 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 2 @ 2' (H801507-07)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 310 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 93.9 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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 Cliff Brunson
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 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 2 @ 3' (H801507-08)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 69.1 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 32.2 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 2 @ 4' (H801507-09)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/25/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 2 @ 5' (H801507-10)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 16.4 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 3 @ 1' (H801507-11)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | | |
| Total BTEX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 1060 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 280 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 147 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 3 @ 2' (H801507-12)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 473 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | 117 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.2 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 3 @ 3' (H801507-13)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2018 | ND | 187 | 93.3 | 200 | 2.57 | |
| DRO >C10-C28* | 24.6 | 10.0 | 06/04/2018 | ND | 194 | 97.1 | 200 | 3.45 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 80.0 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 3 @ 4' (H801507-14)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 16.7 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.7 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 4 @ 1' (H801507-15)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 2780 | 50.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | 674 | 50.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 246 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 4 @ 2' (H801507-16)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 466 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | 82.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 4 @ 3' (H801507-17)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.79 | 89.7 | 2.00 | 3.74 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.77 | 88.7 | 2.00 | 4.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.83 | 91.5 | 2.00 | 2.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.59 | 93.2 | 6.00 | 2.32 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 79.5 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 4 @ 4' (H801507-18)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTEx | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.6 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/29/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 5 @ 1' (H801507-19)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 183 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | 96.9 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/30/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 5 @ 2' (H801507-20)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | | |
| Total BTEx | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 528 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 101 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | 30.8 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 80.5 % 41-142

Surrogate: 1-Chlorooctadecane 85.1 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/30/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 5 @ 3' (H801507-21)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 480 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 21.6 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 78.9 % 41-142

Surrogate: 1-Chlorooctadecane 78.2 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/30/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 6 @ 1' (H801507-22)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 2080 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 2460 | 50.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | 674 | 50.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 243 % 37.6-147

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/30/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 6 @ 2' (H801507-23)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTEx | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 656 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 12.1 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/30/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 6 @ 3' (H801507-24)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 576 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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 Cliff Brunson
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| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/30/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 6 @ 4' (H801507-25)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 7 @ 1' (H801507-26)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | | |
| Total BTEx | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 411 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | 53.6 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 7 @ 2' (H801507-27)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 182 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | 30.6 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 7 @ 3' (H801507-28)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 82.2 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 7 @ 4' (H801507-29)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 38.9 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: 7 @ 5' (H801507-30)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 368 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 421 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | 119 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 71.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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 Cliff Brunson
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 Hobbs NM, 88241
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| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: NORTH (H801507-31)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | | |
| Total BTX | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 14.2 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 79.8 % 37.6-147

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| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: EAST (H801507-32)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | |
| Total BTEx | <0.300 | 0.300 | 06/05/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | 11.8 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 75.1 % 37.6-147

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 Cliff Brunson
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 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: WEST (H801507-33)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | | |
| Total BTEx | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 184 | 91.9 | 200 | 4.53 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/05/2018 | ND | 183 | 91.7 | 200 | 6.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 73.7 % 41-142

Surrogate: 1-Chlorooctadecane 71.2 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/04/2018 | Sampling Date: | 05/31/2018 |
| Reported: | 06/11/2018 | Sampling Type: | Soil |
| Project Name: | NORTH VACUUM ABO | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | CHEVRON | | |

Sample ID: SOUTH (H801507-34)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2018 | ND | 1.98 | 98.8 | 2.00 | 5.47 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.01 | 100 | 2.00 | 5.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2018 | ND | 2.03 | 101 | 2.00 | 6.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2018 | ND | 5.88 | 98.0 | 6.00 | 6.50 | | |
| Total BTEx | <0.300 | 0.300 | 06/05/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 06/06/2018 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2018 | ND | 209 | 105 | 200 | 0.669 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/05/2018 | ND | 226 | 113 | 200 | 0.0120 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 65.1 % 41-142

Surrogate: 1-Chlorooctadecane 70.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

| | |
|-------|--|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | |
|---|-------------|-----------------------------------|-------------|----------------|------|-----|--------|---|------------|------------|----------|---------|------|--|--|--|--|--|--|
| Company Name: BBC International, Inc. | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | |
| Project Manager: Cliff Brunson | | | | P.O. #: | | | | <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> TPA EXT BTEX CL- </div> <div style="width: 80%;"></div> </div> | | | | | | | | | | | |
| Address: P.O. Box 805 | | | | Company: | | | | | | | | | | | | | | | |
| City: Hobbs State: NM Zip: 88241 | | | | Attn: | | | | | | | | | | | | | | | |
| Phone #: 575-397-6388 Fax #: 575-397-0397 | | | | Address: | | | | | | | | | | | | | | | |
| Project #: Project Owner: Cherron | | | | City: | | | | | | | | | | | | | | | |
| Project Name: North Vacuum Abo | | | | State: Zip: | | | | | | | | | | | | | | | |
| Project Location: | | | | Phone #: | | | | | | | | | | | | | | | |
| Sampler Name: Jeff Omelas | | | | Fax #: | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. # CONTAINERS | MATRIX | | | | | PRESERV. | | | SAMPLING | | | | | | | | |
| | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | | | | | | |
| H801507 | | | | | | | | | | | | | | | | | | | |
| 1 101 | | 6-1 | | | | | | | | | | 5/25/18 | 1015 | | | | | | |
| 2 102 | | 6-1 | | | | | | | | | | 5/25/18 | 1038 | | | | | | |
| 3 103 | | 6-1 | | | | | | | | | | 5/25/18 | 1050 | | | | | | |
| 4 104 | | 6-1 | | | | | | | | | | 5/25/18 | 1111 | | | | | | |
| 5 105 | | 6-1 | | | | | | | | | | 5/25/18 | 1145 | | | | | | |
| 6 201 | | 6-1 | | | | | | | | | | 5/25/18 | 1212 | | | | | | |
| 7 202 | | 6-1 | | | | | | | | | | 5/25/18 | 1250 | | | | | | |
| 8 203 | | 6-1 | | | | | | | | | | 5/25/18 | 139 | | | | | | |
| 9 204 | | 6-1 | | | | | | | | | | 5/25/18 | 211 | | | | | | |
| 10 205 | | 6-1 | | | | | | | | | | 5/25/18 | 249 | | | | | | |

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| | | | |
|-------------------------------------|---|----------------------|---|
| Relinquished By: | Date: 6/1/18 | Received By: | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: |
| Jeff Omelas | Time: 4:00 | Jamara Reddy | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: |
| Relinquished By: | Date: 6-4-18 | Received By: | REMARKS: |
| | Time: 3:10 | | |
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: | |
| Sampler - UPS - Bus - Other: -3.1°C | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | (Initials) TD-#75 | |

Has some hard space

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------------------|--------------|----------------|------------|----------|-----|---|---------|------------|------------|---------|---------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: BBC International, Inc. | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | |
| Project Manager: Cliff Brunson | | | | P.O. #: | | | | <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> TPH BTEX CL- </div> <div style="width: 80%;"></div> </div> | | | | | | | | | | | | | | | | | | |
| Address: P.O. Box 805 | | | | Company: | | | | | | | | | | | | | | | | | | | | | | |
| City: Hobbs State: NM Zip: 88241 | | | | Attn: | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 575-397-6388 Fax #: 575-397-0397 | | | | Address: | | | | | | | | | | | | | | | | | | | | | | |
| Project #: Project Owner: <u>Chercon</u> | | | | City: | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>North Vacuum Abo</u> | | | | State: Zip: | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: | | | | Phone #: | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <u>Jeff Omelas</u> | | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | MATRIX | | PRESERV. | | SAMPLING | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | | | | | | | | | | | | |
| <u>H801507</u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 3 @ 1' | 6 | 1 | | | | | | | | | | 5/21/18 | 930 | | | | | | | | | | | | |
| 12 | 3 @ 2' | 6 | 1 | | | | | | | | | | 5/21/18 | 952 | | | | | | | | | | | | |
| 13 | 3 @ 3' | 6 | 1 | | | | | | | | | | 5/21/18 | 1030 | | | | | | | | | | | | |
| 14 | 3 @ 4' | 6 | 1 | | | | | | | | | | 5/21/18 | 1050 | | | | | | | | | | | | |
| 15 | 4 @ 1' | 6 | 1 | | | | | | | | | | 5/21/18 | 1130 | | | | | | | | | | | | |
| 16 | 4 @ 2' | 6 | 1 | | | | | | | | | | 5/21/18 | 1149 | | | | | | | | | | | | |
| 17 | 4 @ 3' | 6 | 1 | | | | | | | | | | 5/21/18 | 1248 | | | | | | | | | | | | |
| 18 | 4 @ 4' | 6 | 1 | | | | | | | | | | 5/21/18 | 122 | | | | | | | | | | | | |
| 19 | 5 @ 1' | 6 | 1 | | | | | | | | | | 5/21/18 | 215 | | | | | | | | | | | | |
| 20 | 5 @ 2' | 6 | 1 | | | | | | | | | | 5/30/18 | 833 | | | | | | | | | | | | |

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| | | | | |
|---|---|----------------------|--|----------------|
| Relinquished By: | Date: <u>6/1/18</u> | Received By: | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| <u>Jeff Omelas</u> | Time: <u>4:00</u> | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: | Date: <u>6-4-18</u> | Received By: | REMARKS: | |
| | Time: <u>3:10</u> | <u>Jamara Odelon</u> | | |
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: | | |
| Sampler - UPS - Bus - Other: <u>-3.1c</u> | Cool <input type="checkbox"/> Intact <input type="checkbox"/> | (Initials) | | |
| | <input type="checkbox"/> Yes <input type="checkbox"/> No | <u>10-#15</u> | | |
| | <input type="checkbox"/> No <input type="checkbox"/> No | | | |

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|------------------------|--|-------------------|--|--------------|--|-------------------------|--|----------|--|----------|--|---------|--|------------|--|------------|--|---------|--|---------|--|------|--|---------|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: BBC International, Inc. | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: Cliff Brunson | | | | P.O. #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: P.O. Box 805 | | | | Company: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Hobbs | | State: NM | | Zip: 88241 | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 575-397-6388 | | Fax #: 575-397-0397 | | Address: | | City: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | | Project Owner: Cherron | | State: | | Zip: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: North Vacuum H2O | | | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: Jeff Ornelas | | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: Jeff Ornelas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | | Sample I.D. | | (G)RAB OR (C)OMP. | | # CONTAINERS | | MATRIX | | PRESERV. | | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | GROUNDWATER | | WASTEWATER | | SOIL | | OIL | | SLUDGE | | OTHER : | | ACID/BASE: | | ICE / COOL | | OTHER : | | DATE | | TIME | | | | | | | | | | | | | |
| H801507 | | | | G | | 1 | | | | | | | | | | | | | | | | 5/30/18 | | 922 | | TBA EXT | | | | | | | | | | | |
| 21 5 @ 3' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/30/18 | | 938 | | BTX | | | | | | | | | | | |
| 22 6 @ 1' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/30/18 | | 959 | | CL | | | | | | | | | | | |
| 23 6 @ 2' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/30/18 | | 1144 | | | | | | | | | | | | | |
| 24 6 @ 3' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/30/18 | | 111 | | | | | | | | | | | | | |
| 25 6 @ 4' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/31/18 | | 850 | | | | | | | | | | | | | |
| 26 7 @ 1' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/31/18 | | 940 | | | | | | | | | | | | | |
| 27 7 @ 2' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/31/18 | | 1059 | | | | | | | | | | | | | |
| 28 7 @ 3' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/31/18 | | 1148 | | | | | | | | | | | | | |
| 29 7 @ 4' | | | | G | | 1 | | | | | | | | | | | | | | | | 5/31/18 | | 111 | | | | | | | | | | | | | |
| 30 7 @ 5' | | | | G | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | | | | | | |
|------------------------------------|--|--------------|--|--|--|--|--|----------------|--|
| Relinquished By: | | Date: 6/1/18 | | Received By: | | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Add'l Phone #: | |
| Jeff Ornelas | | Time: 4:00 | | | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Add'l Fax #: | |
| Relinquished By: | | Date: 6-4-18 | | Received By: | | REMARKS: | | | |
| | | Time: 3:10 | | Jennifer Ornelas | | | | | |
| Delivered By: (Circle One) | | | | Sample Condition | | CHECKED BY: | | | |
| Sampler - UPS - Bus - Other: -3.1c | | | | Cool Intact | | (Initials) | | | |
| Corrected -3.15c | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | TO: #15 | | | |
| | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | Has some head space | | | |

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Appendix C
Regulatory Communications

From: [Hernandez, Christina, EMNRD](#)
To: [Cliff Brunson](#); [Yu, Olivia, EMNRD](#); ["Mann, Ryan"](#)
Cc: ["Barnhill, Amy D."](#); ["Ken Swinney"](#); ["Jennifer Gilkey"](#); ["Kathy Purvis"](#)
Subject: RE: Chevron - North West Abo Unit Battery (RP-4930) - Delineation Workplan
Date: Thursday, July 19, 2018 12:03:19 PM

Dear Mr. Brunson:

Please note that the current RRALs are adjusted accordingly to 30 due to presence of water source < 1000 ft (20 points) and depth to groundwater being between 50-99 ft (10 points).

Based on preliminary laboratory summary results submitted, at this time NMOCD denies the proposed remediation plan due to exceeding TPH RRAL's in sampling locations SP1-SP7. Additionally, delineation is incomplete at sampling location SP7. Please complete delineation and resubmit an appropriate remediation plan for this release.

Thanks,

Christina Hernandez
EMNRD-OCD
Environmental Specialist
1625 N. French Drive
Hobbs, NM 88240
575-393-6161 x111
Christina.Hernandez@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Cliff Brunson <cbrunson@bbcinternational.com>
Sent: Wednesday, June 20, 2018 6:49 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; 'Mann, Ryan' <rmann@slo.state.nm.us>
Cc: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>; 'Barnhill, Amy D.' <ABarnhill@chevron.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>
Subject: Chevron - North West Abo Unit Battery (RP-4930) - Delineation Workplan

Olivia and Ryan,

Please find the attached Delineation Workplan and remediation proposal for the Chevron North West Abo Unit Battery (1RP-4930). Chevron is requesting that you review this plan and is looking forward to the OCD's and SLO's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com



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From: Mann, Ryan
To: ["Cliff Brunson"; Yu, Olivia, EMNRD](#)
Cc: [Hernandez, Christina, EMNRD](#); ["Barnhill, Amy D."; "Ken Swinney"; "Jennifer Gilkey"; "Kathy Purvis"](#)
Subject: RE: Chevron - North West Abo Unit Battery (RP-4930) - Delineation Workplan
Date: Sunday, July 8, 2018 4:54:55 PM

NMSLO approves of this plan as written. Confirmation samples from the bottom and sidewall, no greater than 50 feet apart are requested. Like approval from NMOCD is also necessary.

Ryan Mann
Remediation Specialist
Field Operation Division
(575) 392-3697
(505) 699-1989
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Wednesday, June 20, 2018 6:49 PM
To: 'Olivia Yu' <Olivia.Yu@state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>
Cc: 'Hernandez, Christina, EMNRD' <Christina.Hernandez@state.nm.us>; 'Barnhill, Amy D.' <ABarnhill@chevron.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>
Subject: Chevron - North West Abo Unit Battery (RP-4930) - Delineation Workplan

Olivia and Ryan,

Please find the attached Delineation Workplan and remediation proposal for the Chevron North West Abo Unit Battery (1RP-4930). Chevron is requesting that you review this plan and is looking forward to the OCD's and SLO's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
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E-Mail: cbrunson@bbcinternational.com



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Appendix D
Laboratory Reports



Certificate of Analysis Summary 651946

Larson and Associates, Inc., Midland, TX

Project Name: Chevron NWAUB



Project Id:

Contact: Mark Larson

Project Location:

Date Received in Lab: Tue Feb-11-20 10:44 am

Report Date: 13-FEB-20

Project Manager: Holly Taylor

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 651946-001 | 651946-002 | 651946-003 | 651946-004 | | |
|------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|--|--|
| | <i>Field Id:</i> | SP-7 (6') | SP-7 (10') | SP-7 (15') | SP-7 (20') | | |
| | <i>Depth:</i> | 6- ft | 10- ft | 15- ft | 20- ft | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | | |
| | <i>Sampled:</i> | Feb-10-20 12:31 | Feb-10-20 12:32 | Feb-10-20 12:36 | Feb-10-20 12:41 | | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Feb-11-20 14:00 | Feb-11-20 14:00 | Feb-11-20 14:00 | Feb-11-20 14:00 | | |
| | <i>Analyzed:</i> | Feb-12-20 00:42 | Feb-12-20 01:03 | Feb-12-20 01:24 | Feb-12-20 01:46 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 50.0 | <49.9 49.9 | <49.9 49.9 | <49.9 49.9 | | |
| Diesel Range Organics (DRO) | | <50.0 50.0 | <49.9 49.9 | <49.9 49.9 | <49.9 49.9 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 50.0 | <49.9 49.9 | <49.9 49.9 | <49.9 49.9 | | |
| Total TPH | | <50.0 50.0 | <49.9 49.9 | <49.9 49.9 | <49.9 49.9 | | |

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 651946

for
Larson and Associates, Inc.

Project Manager: Mark Larson

Chevron NWAUB

13-FEB-20

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

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

Xenco-Tampa: Florida (E87429), North Carolina (483)



13-FEB-20

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: XENCO Report No(s): **651946**
Chevron NWAUB
Project Address:

Mark Larson :

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) 651946. 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. 651946 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,

A handwritten signature in black ink that reads 'Holly Taylor'.

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 651946



Larson and Associates, Inc., Midland, TX

Chevron NWAUB

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------|--------|----------------|--------------|---------------|
| SP-7 (6') | S | 02-10-20 12:31 | 6 ft | 651946-001 |
| SP-7 (10') | S | 02-10-20 12:32 | 10 ft | 651946-002 |
| SP-7 (15') | S | 02-10-20 12:36 | 15 ft | 651946-003 |
| SP-7 (20') | S | 02-10-20 12:41 | 20 ft | 651946-004 |



CASE NARRATIVE

Client Name: *Larson and Associates, Inc.*

Project Name: *Chevron NWAUB*

Project ID:

Work Order Number(s): 651946

Report Date: 13-FEB-20

Date Received: 02/11/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3116240 TPH by SW8015 Mod

Motor Oil Range Hydrocarbons (MRO) recovered below QC limits in the Blank Spike and Duplicate indicating bias low results. Samples in the analytical batch are: 651946-001, -002, -003, -004.



Certificate of Analytical Results 651946



Larson and Associates, Inc., Midland, TX

Chevron NWAUB

Sample Id: **SP-7 (6')**
 Lab Sample Id: 651946-001

Matrix: Soil
 Date Collected: 02.10.20 12.31

Date Received: 02.11.20 10.44
 Sample Depth: 6 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.11.20 14.00

Basis: Wet Weight

Seq Number: 3116240

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 02.12.20 00.42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 02.12.20 00.42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 02.12.20 00.42 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 02.12.20 00.42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 02.12.20 00.42 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-135 | 02.12.20 00.42 | |



Certificate of Analytical Results 651946



Larson and Associates, Inc., Midland, TX

Chevron NWAUB

Sample Id: SP-7 (10')

Matrix: Soil

Date Received: 02.11.20 10.44

Lab Sample Id: 651946-002

Date Collected: 02.10.20 12.32

Sample Depth: 10 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.11.20 14.00

Basis: Wet Weight

Seq Number: 3116240

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 02.12.20 01.03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 02.12.20 01.03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 02.12.20 01.03 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 02.12.20 01.03 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-135 | 02.12.20 01.03 | | |
| o-Terphenyl | 84-15-1 | 87 | % | 70-135 | 02.12.20 01.03 | | |



Certificate of Analytical Results 651946



Larson and Associates, Inc., Midland, TX Chevron NWAUB

Sample Id: **SP-7 (15')**

Matrix: Soil

Date Received: 02.11.20 10.44

Lab Sample Id: 651946-003

Date Collected: 02.10.20 12.36

Sample Depth: 15 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.11.20 14.00

Basis: Wet Weight

Seq Number: 3116240

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 02.12.20 01.24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 02.12.20 01.24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 02.12.20 01.24 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 02.12.20 01.24 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-135 | 02.12.20 01.24 | | |
| o-Terphenyl | 84-15-1 | 86 | % | 70-135 | 02.12.20 01.24 | | |



Certificate of Analytical Results 651946



Larson and Associates, Inc., Midland, TX

Chevron NWAUB

Sample Id: **SP-7 (20')**

Matrix: Soil

Date Received: 02.11.20 10.44

Lab Sample Id: 651946-004

Date Collected: 02.10.20 12.41

Sample Depth: 20 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.11.20 14.00

Basis: Wet Weight

Seq Number: 3116240

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 02.12.20 01.46 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 02.12.20 01.46 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 02.12.20 01.46 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 02.12.20 01.46 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-135 | 02.12.20 01.46 | | |
| o-Terphenyl | 84-15-1 | 82 | % | 70-135 | 02.12.20 01.46 | | |



Flagging Criteria



- 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 **SQL** 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



Larson and Associates, Inc.
Chevron NWAUB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3116240

MB Sample Id: 7696418-1-BLK

Matrix: Solid

LCS Sample Id: 7696418-1-BKS

Prep Method: SW8015P

Date Prep: 02.11.20

LCSD Sample Id: 7696418-1-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 | 901 | 90 | 896 | 90 | 70-135 | 1 | 20 | mg/kg | 02.11.20 17:56 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 974 | 97 | 948 | 95 | 70-135 | 3 | 20 | mg/kg | 02.11.20 17:56 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 88 | | 102 | | 102 | | 70-135 | % | 02.11.20 17:56 |
| o-Terphenyl | 86 | | 101 | | 97 | | 70-135 | % | 02.11.20 17:56 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3116240

Matrix: Solid

Prep Method: SW8015P

Date Prep: 02.11.20

MB Sample Id: 7696418-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 02.11.20 17:34 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3116240

Matrix: Soil

Prep Method: SW8015P

Date Prep: 02.11.20

Parent Sample Id: 651910-001

MS Sample Id: 651910-001 S

MSD Sample Id: 651910-001 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 | 997 | 920 | 92 | 907 | 91 | 70-135 | 1 | 20 | mg/kg | 02.11.20 19:00 | |
| Diesel Range Organics (DRO) | <15.0 | 997 | 985 | 99 | 978 | 98 | 70-135 | 1 | 20 | mg/kg | 02.11.20 19:00 | |
| Motor Oil Range Hydrocarbons (MRO) | <15.0 | 997 | <49.9 | 0 | <49.9 | 0 | 70-135 | NC | 20 | mg/kg | 02.11.20 19:00 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 97 | | 94 | | 70-135 | % | 02.11.20 19:00 |
| o-Terphenyl | 91 | | 92 | | 70-135 | % | 02.11.20 19:00 |

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

Marion & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 2/11/2020 PAGE 1 OF 1
PO#: LAB WORK ORDER#
PROJECT LOCATION OR NAME: CHEMUN NWTAUB
LAI PROJECT #: COLLECTOR: DS/EC

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State:

MST

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESSERVED

ANALYSES

BTEX ☐ MTBE ☐
TRPH 418.1 ☐ TPH 1005 ☒ TPH 1006 ☐
GASOLINE MOD 8015 ☒
DIESEL - MOD 8015 ☒
OIL - MOD 8015 ☒
VOC 8260 ☒
SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐
8081 PESTICIDES ☐ 8151 HERBICIDES ☐
TBLP - METALS (RCRA) ☐ TCLP VOC ☐
TCLP - PEST ☐ HERB ☐ Semi-VOC ☐
TOTAL METALS (RCRA) ☐ OTHER LIST ☐
LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐
RCI ☐ TOX ☐ FLASHPOINT ☐
TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
PH ☐ HEXAVALENT CHROMIUM ☐
EXPLOSIVES ☐ PENTACHLORATE ☐
CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

SR-7 (10')
SP-7 (10')
SP-7 (15')
SP-7 (20')

2/10/2020 2:31
2:32
2:34
2:41

S

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

TOTAL

4

RELINQUISHED BY: (Signature)

2/11/20

10:44

RECEIVED BY: (Signature)

TURN AROUND TIME

NORMAL ☐

1 DAY ☐

2 DAY ☐

OTHER ☒ 5 days

LABORATORY USE ONLY:

RECEIVING TEMP: 050

THERM#: 25

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

LABORATORY:

YENCO

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

RECEIVING TEMP: 050

THERM#: 25

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

651946

Nº 0976

CHAIN-OF-CUSTODY

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.**Date/ Time Received:** 02.11.2020 10.44.00 AM**Work Order #:** 651946**Acceptable Temperature Range:** 0 - 6 degC**Air and Metal samples Acceptable Range:** Ambient**Temperature Measuring device used :**

| Sample Receipt Checklist | Comments |
|---|----------|
| #1 *Temperature of cooler(s)? | .6 |
| #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)? | N/A |
| #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#: r8

Checklist completed by:

Allison Johnson

Date: 02.11.2020

Checklist reviewed by:

Jessica Kramer

Date: 02.12.2020

Appendix E

Photographs

1RP-4930
Chevron USA, Inc.
Northwest Abo Unit Battery



Northwest Abo Tank Battery Viewing North, March 23, 2020



Spill Area Viewing Northwest, March 23, 2020

1RP-4930
Chevron USA, Inc.
Northwest Abo Unit Battery



Spill Area Viewing Southwest, March 23, 2020

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 4752

CONDITIONS

| | |
|--|---|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: 4323 |
| | Action Number: 4752 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| bbillings | None | 9/13/2021 |