

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	JR Cone Operating, LLC	Contact	Jim Cone
Address	PO Box 10217, Lubbock, TX 79408	Telephone No.	806-763-8211
Facility Name	Anderson	Facility Type	Production and Gathering
Surface Owner	Private	Mineral Owner	Private
		API No.	30-025-06696

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	21	21S	37E					Lea

Latitude 32.46319 Longitude -103.16219 NAD83

NATURE OF RELEASE

Type of Release	Leak at Battery, Unlined Pit circa 1943	Volume of Release	Volume Recovered
Source of Release	Tank	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?		Date and Hour	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*

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.

OIL CONSERVATION DIVISION

Signature:



Printed Name: Jim Cone

Approved by Environmental Specialist:



Title: Managing Member

Approval Date: 7/31/2018

Expiration Date:

E-mail Address: jccone@conelevator.com

Conditions of Approval:

See attached directive

Attached ☒

Date: 7/31/2018

Phone: 512-217-6253

* Attach Additional Sheets If Necessary

1RP-5140

pCH1821251149

Fields, Vanessa, EMNRD

From: Fields, Vanessa, EMNRD
Sent: Tuesday, February 26, 2019 10:45 AM
To: Gil Van Deventer; EMNRD-OCD-District1spills
Cc: Griswold, Jim, EMNRD; Billings, Bradford, EMNRD
Subject: RE: [EXT] Fwd: 1R-5140 - Site Characterization/Assessment Report and Remediation Plan for the JR Cone Operating Anderson Lease

Good morning Gil,

Per our conversation and a review of your characterization report you submitted for 1RP-5140 JR Cone Operating will need to obtain closure samples for the base of the excavation in area's I, M, N, O and P that are referenced in Figure 3. The OCD granted a sampling plan of (1) 5-point composite sample for each area, which is an estimated area of 480 square feet.

The condition of approval will be included into your characterization report. This can be found in the 1RP-5140 file.

Please let me know if you have any further questions.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Gil Van Deventer <gil@trident-environmental.com>
Sent: Monday, February 25, 2019 8:48 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Brad Billings <brad.billings@state.nmn.us>
Subject: [EXT] Fwd: 1R-5140 - Site Characterization/Assessment Report and Remediation Plan for the JR Cone Operating Anderson Lease

It has just come to my attention that Christina Hernandez no longer works at the District 1 office in Hobbs and both Environmental Specialist positions are currently vacant.

Attached is the *Site Characterization/Assessment Report and Remediation Plan* for the Anderson Lease (1R-5140) operated by JR Cone Operating, LLC.

Upon completion of the assessment and remediation activities described within, the lateral and vertical extents of soil contamination have been delineated and the NMOCD closure criteria have been met. The remediation plan includes all the necessary steps to further mitigate any threat to groundwater and is protective of the surface vegetation, human

health, the environment.

We look forward to your response so that we can move forward with backfilling and site restoration.

Thank you,

Gil

Gilbert J. Van Deventer, P.G.

Partner - Project Manager - Sr. Hydrogeologist



*Environmental Consultants
Groundwater Resource Investigations*

Trident Environmental
P. O. Box 12177
Odessa, Texas 79768-2177

Office/Mobile 432.638.8740
gil@trident-environmental.com
www.trident-environmental.com

----- Forwarded Message -----

Subject:1R-5140 - Site Characterization/Assessment Report and Remediation Plan for the JR Cone Operating Anderson Lease

Date:Tue, 12 Feb 2019 11:18:35 -0600

From:Gil Van Deventer <gil@trident-environmental.com>

To:Christina Hernandez <Christina.Hernandez@state.nm.us>

CC:Jim Cone <jcone@coneelevator.com>

Hello Christina

Attached is the *Site Characterization/Assessment Report and Remediation Plan* for the Anderson Lease (1R-5140) operated by JR Cone Operating, LLC.

Upon completion of the assessment and remediation activities described within, the lateral and vertical extents of soil contamination have been delineated and the NMOCD closure criteria have been met. The remediation plan includes all the necessary steps to further mitigate any threat to groundwater and is protective of the surface vegetation, human health, the environment.

We look forward to your response so that we can move forward with backfilling and site restoration.

Thank you,

Gil

--
Gilbert J. Van Deventer, P.G.

Partner - Project Manager - Sr. Hydrogeologist



*Environmental Consultants
Groundwater Resource Investigations*

**Trident Environmental
P. O. Box 12177
Odessa, Texas 79768-2177**

**Office/Mobile 432.638.8740
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Resources Department
Oil Conservation Division
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Santa Fe, NM 87505

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: JR Cone Operating, LLC	OGRID
Contact Name: Jim Cone (Managing Member)	Contact Telephone: 806-763-8211
Contact email: jcone@coneelevator.com	Incident #: (IRP-5140)
Contact mailing address: P. O. Box 10217, Lubbock, Texas 79408	

Location of Release Source

Latitude 32.46347° Longitude -103.16190° (NAD 83 in decimal degrees to 5 decimal places)

Site Name: (Lease name): Anderson	Site Type: Historic unlined pit and blowout vent
Date Release Discovered: (by NMOCD staff) July 19, 2018	API# 30-025-06696 (nearest well; not source)

Unit Letter	Section	Township	Range	County
I	21	21S	37E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name:) Robert Gilbert et al (previously Estate of Mary L. Wantz)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

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

Cause of Release:

Historic unlined pit located ~ 200 ft northeast of Anderson tank battery and 330 ft NNW of Anderson #1 well (30-025-6696). The pit contains unknown volumes of crude oil generated from historical operations on lease. Early indications are such that there are only minor amounts of produced water impact.

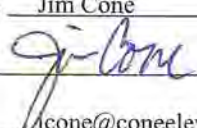
State of New Mexico
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release was historical with unknown volume.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NMOCD responded to a report of a possible release on July 12, 2018. During the inspection, an unauthorized pit was identified northeast of the battery as well as a vent pipe, where the area immediately surrounding it appears to have been impacted. On July 19, 2018, C. Hernandez NMOCD District 1 contacted the operator via email requesting a work plan.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Jim Cone</u> Signature: <u></u> email: <u>jcone@coneelevator.com</u>	Title: <u>Managing Member</u> Date: <u>2-12-11</u> Telephone: <u>806-763-8211</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	56 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

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: Jim Cone

Title: Managing Member

Signature: 

Date: 2-12-19

email: jcone@coneelevator.com

Telephone: 806-763-8211

OCD Only

Received by: _____

Date: _____

SITE ASSESSMENT/CHARACTERIZATION REPORT

Date: February 8, 2019

NMOCD Case No. : 1RP-5140

Site Name: Anderson Lease

Operator: J. R. Cone Operating, LLC

Location: T21S, R37E, SECTION 21, UNIT LETTER I, EUNICE, Lea County NM

Site Description

The subject site is located about 2 miles north of Eunice city limits along the west side of Hwy 207 as shown on the Site Location Map (Figure 1). During an inspection by NMOCD on July 12, 2018, an historic unlined pit was discovered about 200 ft northeast of the battery as well as a vent pipe, where the area immediately surrounding it appears to have been impacted. The pit areas measured about 5,000 ft² (50-ft by 100-ft) with its southern end protected by pipe fencing and an earthen berm. The vent pipe extends out from the nearby tank battery and indicated an impacted area measuring about 20-ft by 60-ft (1,200 ft²) that shows impact with hardpan (aliphatic) hydrocarbons on the surface.

The tank battery handles production from two oil wells on the 40-acre lease; the Anderson No. 1 (API 30-025-06696) located about 330 ft southeast of the release area, and the Anderson No. 2 (API 30-025-06695) located another 500 ft further southeast.

Other features and structures include a Targa gas line leading from the tank battery to the Targa North Eunice Gas Plant (booster station), a produced water line operated by Rice Operating Company that is part of its BD Saltwater Disposal System, and a water line that supplies irrigation water to the Eunice golf course which is about 4 miles west of the site. Figure 2 is a Site Map that depicts the locations of the features described above.

Depth to Groundwater

1. According to the USGS Eunice topographic map (Figure 1) the surface elevation at the pit site is only about 2 feet lower than the 3440 ft contour which puts it at about 3438 ft above mean sea level (AMSL). Likewise, the surface elevation of the vent excavation site is 3440 ft AMSL.
2. The most recent depth to groundwater measurement taken at the closest well to the site (USGS 322745103093701 21S.37E.21.24234) located about 1,100 ft north was recorded at 56.11 ft below land surface on April 25, 1991 (Attachment 1). Land surface at this well is reported to be 3430 ft above mean sea level (AMSL), which correlates to a groundwater elevation of about 3374 ft AMSL. The surface elevation at the pit site is approx. 3438 ft AMSL based on the USGS topography which correlates to a depth to water at about 64 ft below land surface (3438 - 3374 = 64).

3. A surface topography survey was conducted by Trident Environmental on January 19-20, 2019, using Trimble laser level equipment and five benchmarks which were established by Transglobal Services LLC on October 2, 2014. A benchmark elevation of 3426.92 ft AMSL, was found 200 ft east of the former pit, which was used to confirm site elevations. Based on this survey datum, the surface elevation at the pit site would be 3430.39, which would correspond to a depth to water at about 56 ft ($3430 - 3374 = 56$). The survey data was input into Surfer to generate the surface elevation contours in 1-ft intervals (Attachment 1).
4. Immediately south of the Anderson lease is the Former Eunice North Gas Plant (GW-4) site which has an extensive monitoring well network (150 wells) for ongoing monitoring and treatment of hexavalent chromium, hydrocarbon, and chloride contaminated groundwater. A November 2015 gradient map is included in Attachment 1. The closest GW-4 monitoring well to the Anderson lease is MW-63A at about 3600 ft south with a surface elevation of about 3432 ft. According to the November 2015 data, the depth to water is at 56.43 ft and the groundwater elevation is 3379.13 ft AMSL. The prevailing direction of groundwater flow (gradient) is towards the east-northeast in the direction of Monument Draw. The GW-4 monitoring data is consistent with the USGS data presented above.

Wellhead Protection Distance and Nearest Significant Watercourse

The site meets all exclusion criteria as specified in NMAC 19.15.29.12.C(4). There are no known water sources, including private or domestic water wells, within a half mile of the site. The USGS well referenced above no longer appears present and could not be located during site reconnaissance, however records indicate it was located near the Finish Line RV Park north of the Cardinal Raceway *before* they were built. The RV park receives its source water from the City of Eunice.

There are no watercourses within a mile of the site. The Monument Draw feature is located approx 1.5 miles east of the site.

NMOCD Closure Criteria

Based on the evidence presented above, it has been demonstrated that the NMOCD Closure Criteria for depth to groundwater at 51 ft - 100 ft applies for this site, in accordance with Table 1 of 19.15.29.12 NMAC, which are as follows:

- 10,000 mg/kg for Chloride
- 2,500 mg/kg for TPH (GRO+DRO+MRO)
- 1,000 mg/kg for GRO+DRO
- 50 mg/kg for BTEX
- 10 mg/kg for Benzene

During a meeting held at the release site on November 2, 2018, the above closure criteria was mutually agreed by the following who were present:

- Gil Van Deventer, PG (Consultant, Trident Environmental - Odessa TX)
- Jim Cone (Managing Member, J. R. Cone Operating, LLC - Lubbock TX)
- Christina Hernandez (NMOCD Environmental Specialist - Hobbs NM))

For the purposes of establishing the applicable NMOCD closure criteria (Table I of 19.15.29.12 NMAC), the minimum depth to groundwater has been determined to be at least 56 ft below ground surface as documented in Attachment 1.

Description of Assessment and Remediation Work Performed

On October 1, 2018, remediation activities were initiated at the former pit location by excavating hydrocarbon-impacted soils and transporting them to the nearest NMOCD-approved surface waste facility (Sundance Services, Permit No. NM-01-03). Excavation work was performed by SDR Enterprises (Hobbs NM) under oversight and direction by Trident Environmental (Trident), consultant for J. R. Cone Operating, LLC.

Excavation and removal at the source areas was chosen as the primary remediation method because the source of contamination at the pit and vent areas was obvious and deemed the most proactive approach.

Site Assessment activities were performed concurrently with remediation work as the trackhoe excavating operation allowed access for delineating the extents of impact with the use of field screening instruments and confirmation sampling for lab analysis. Field screening the excavated walls and floors was accomplished using a calibrated specific conductivity meter (Hanna Model 98130) for chloride salinity estimates and with a calibrated Thermal Environmental Model 580B organic vapor analyzer (OVA) for response to volatile organic compounds (VOCs).

By November 3rd, a total of 8,948 cubic yards were excavated and transported to the Sundance facility in Eunice. At that point the excavation in the pit area was approximately 80-ft by 150-ft (12,000 ft²) with depths ranging from about 12-ft to 20-ft. The vent area was excavated to a depth of about 12-ft and measures about 30-ft wide by 70-ft long (2,100 ft²).

After reaching this point, representative composite soil samples were collected from the floor and walls of the pit excavation on November 20-21, 2018. The sixteen 5-point composite wall samples and twelve 5-point composite floor samples were collected in accordance with NMAC 19.15.29.12(D), and as agreed upon with the NMOCD District 1 Environmental Specialist (C. Hernandez) at the site on November 2, 2018. Analytical results for the pit excavation are summarized in Table 1 and depicted in Figure 3.

As far as lateral delineation goes, all wall samples within the pit area met even the strictest closure criteria for BTEX, TPH, and chloride, and in most cases were below method detection limits; therefore lateral delineation is complete. Meeting the closure criteria (floor samples) for chloride, benzene, and BTEX has been achieved;

however, vertical delineation was not yet complete with respect to TPH and/or GRO+DRO in the I, J, M, N, O, and P sample grid area as highlighted in Table 1 and depicted in Figure 3.

On December 20, 2018, notice and description of the above-described project status was emailed to the Hobbs District office detailing the above activities and progress, including a sampling map and summary of the lab data representing conditions for the pit excavation. The update included a description of plans to excavate an additional three feet of material from floor areas in the pit excavation that did not meet the TPH closure criteria and building a ramp to allow access for a drilling rig in order to continue vertical delineation (below 15 ft depth from ground surface).

On January 8, 2019, 5-point composite samples from the smaller vent excavation were collected, consisting of four wall samples (one for each wall) and two floor samples (one for each end) in accordance with NMAC 19.15.29.12(D). Analytical results for the vent excavation are summarized in Table 2 and depicted in Figure 4.

On January 9, 2019, an additional 220 cubic yds of impacted caliche was excavated from the shallower south end of the pit excavation within grid zones I, J, M, N, O, and P in Figure 3, to a depth of 15 ft below ground surface, to remove additional material that did not meet TPH closure criteria. The impacted caliche was transported to Sundance Services in Eunice the next day. Using the trackhoe, ramps were constructed at each excavation to allow for drilling rig access and completion of vertical delineation.

On January 17, 2019, a hollow-stem drilling rig operated by Atkins Engineering Associates Inc. (Roswell NM) was mobilized to drill a borehole as close as obtainable to the center of release at each of the two excavations. Samples were collected at 5-ft intervals with a split-spoon tool for field screening and lab analysis. Analytical results of the borehole sampling are provided in Table 1 (Pit) and Table 2 (Vent). Borehole lithology descriptions and field screening details of the subsurface soils encountered are included in Attachment 2.

Photographic documentation of the activities described above are included in Attachment 3. All soil samples for the activities described above were submitted to Cardinal Laboratories (Hobbs NM) for analysis of Benzene and BTEX using EPA Method 8021B; GRO (C6-10), DRO (>C10-28), DRO (>C28-36), and TPH (C6-C36) using EPA Method 8015B; and chloride using EPA Method 4500Cl-B. Laboratory analytical reports are included in Attachment 4.

Conclusions

Upon completion of the assessment and remediation activities described above, the lateral and vertical extents of soil contamination have been delineated and the NMOCD closure criteria have been met.

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	56 (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
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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.

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: Jim Cone III

Title: Managing Member

Signature: _____

Date: _____

email: jccone@coneelevator.com

Telephone: 806-763-8211

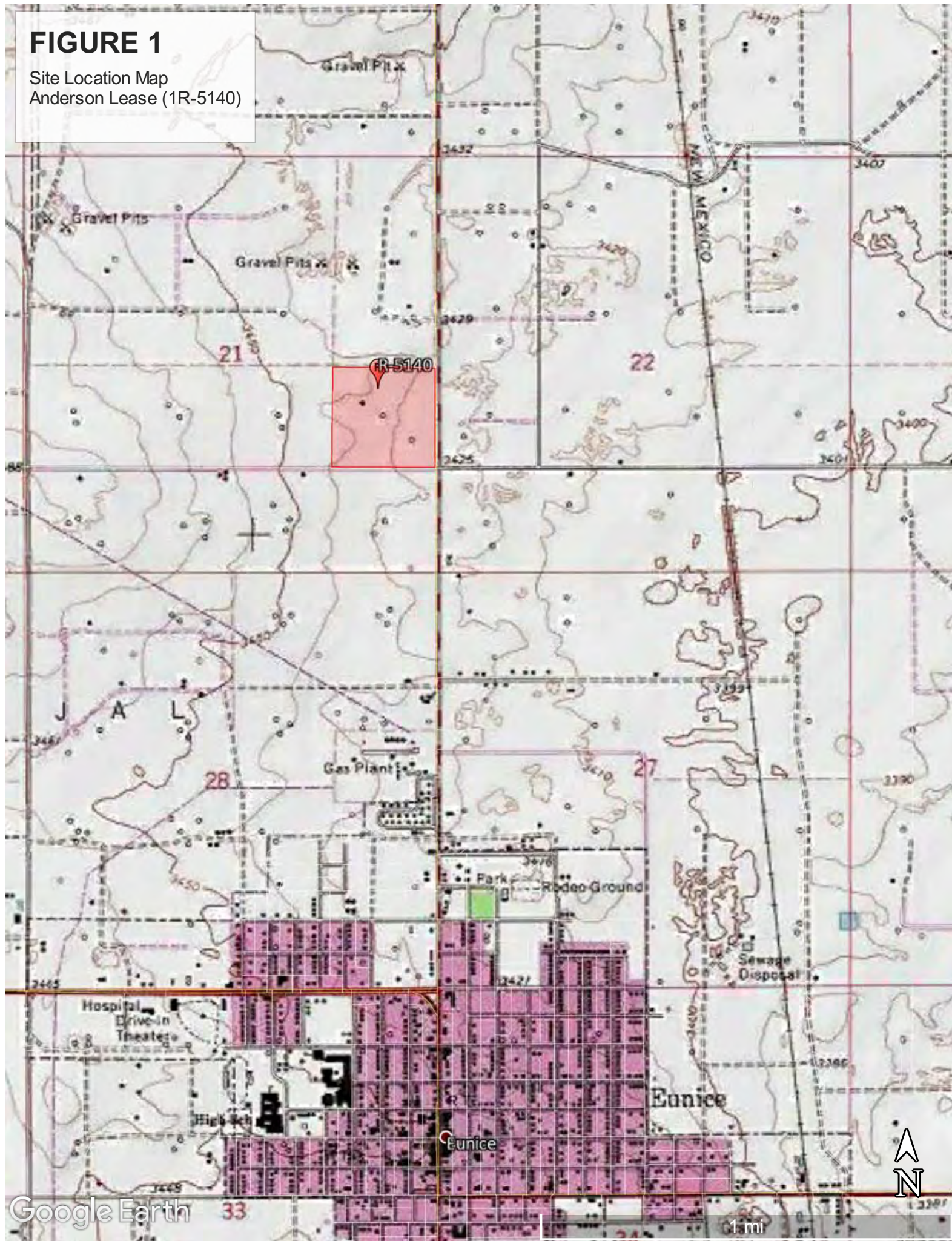
OCD Only

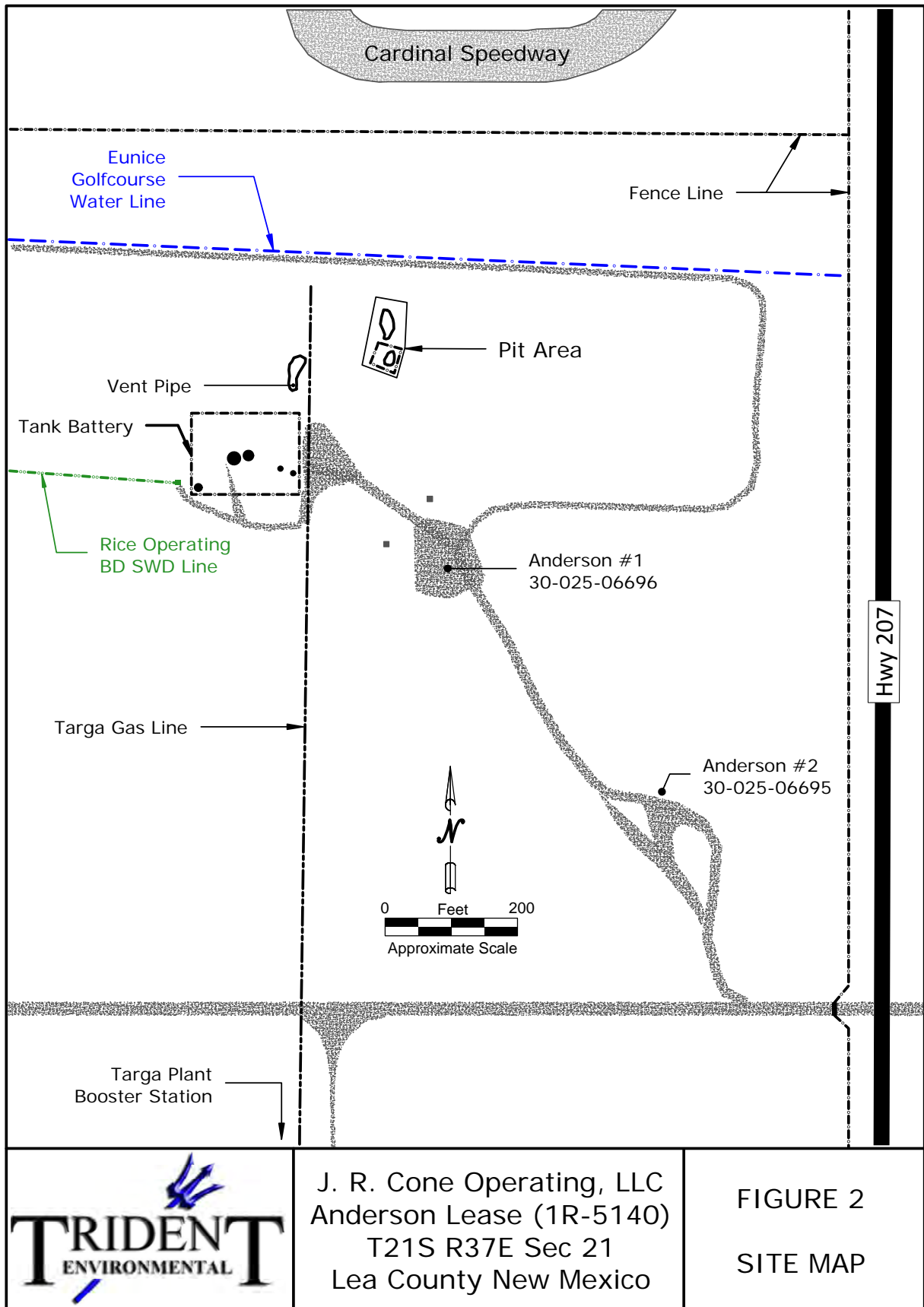
Received by: Vanessa Fields Date: 2/26/2019

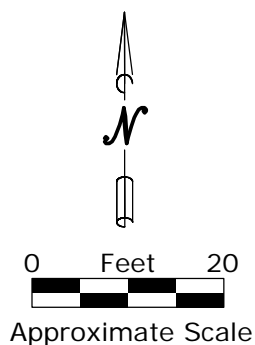
FIGURES

FIGURE 1

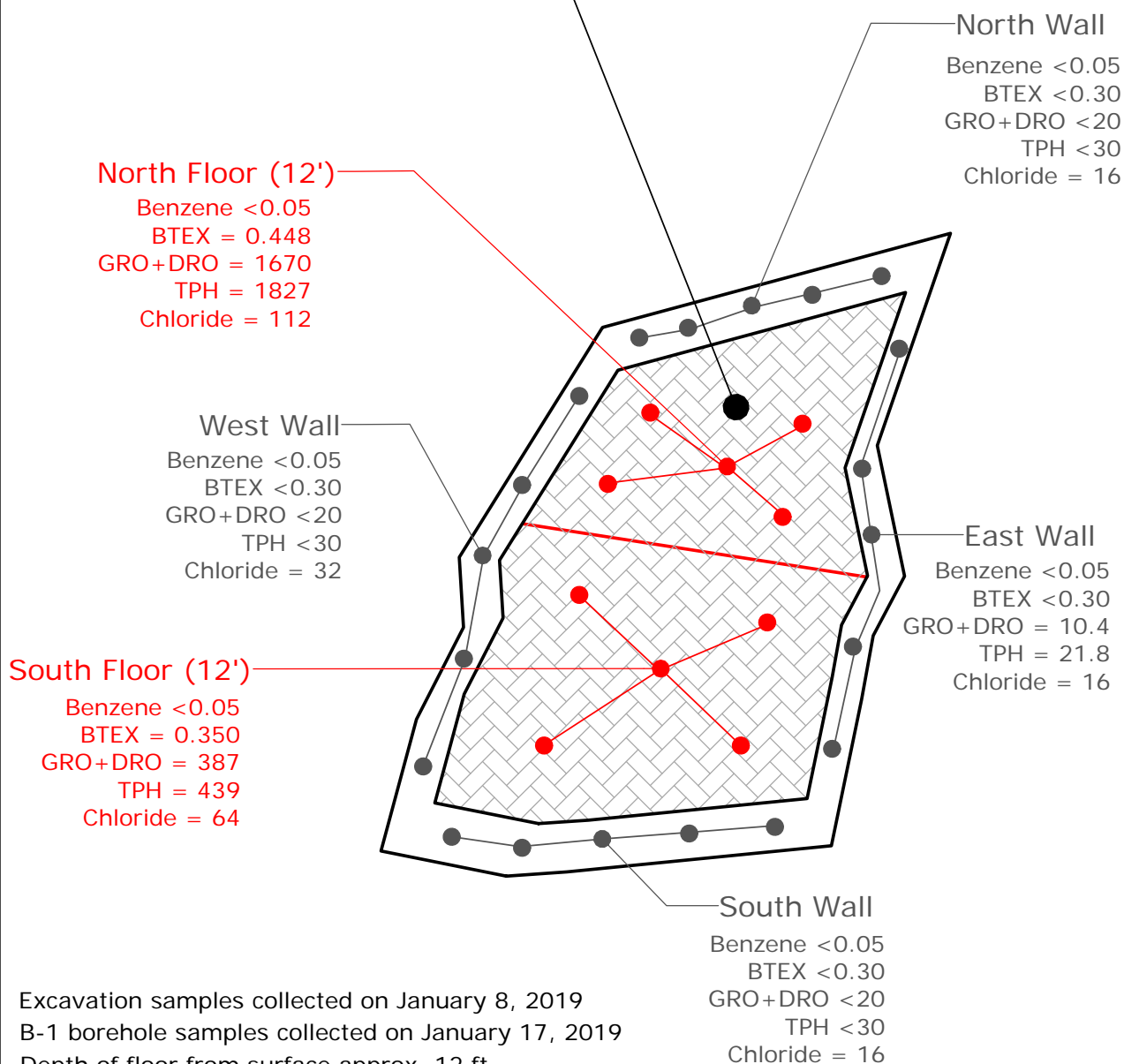
Site Location Map
Anderson Lease (1R-5140)







Borehole	Depth	Benzene	BTEX	GRO+DRO	TPH	Chloride
B-1	16'-18'	<0.050	<0.300	645	711	48
	31'-32'	<0.050	<0.300	<20	<30	80



Excavation samples collected on January 8, 2019
 B-1 borehole samples collected on January 17, 2019
 Depth of floor from surface approx. 12 ft
 Concentration units in mg/kg



J. R. Cone Operating, LLC
 Anderson Lease (1R-5140)
 T21S R37E Sec 21
 Lea County New Mexico

FIGURE 4
 Vent
 Excavation
 Map

TABLES

Table 1
Pit Excavation: Summary of Benzene, BTEX, TPH, and Chloride Concentrations (mg/kg)

Location	Sample ID	Depth BGS (Ft)	Type	Benzene	BTEX	GRO C6-C10	DRO C10-C28	ORO C28-C36	GRO+DRO C6-C28	TPH C6-C36	Chloride
Pit Wall Samples	E. Wall-1	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	176
	E. Wall-2	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	304
	E. Wall-3	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	160
	E. Wall-4	2'-10'	Comp	<0.050	<0.300	<10	106	67.0	106	173	80
	S. Wall-1	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	176
	S. Wall-2	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	64
	W. Wall-1	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	<16
	W. Wall-2	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	64
	W. Wall-3	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	464
	W. Wall-4	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	64
	N. Wall-1	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	208
	N. Wall-2	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	32
Pit Floor Samples	A	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	96
	B	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	112
	C	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	48
	D	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	48
	E	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	400
	F	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	256
	G	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	160
	H	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	1,840
	I	12'	Comp	<0.050	<0.300	65.5	1,480	162	1,546	1,708	672
	J	12'	Comp	<0.050	1.72	248	2,420	326	2,668	2,994	144
	K	12'	Comp	<0.050	<0.300	17.7	467	75.9	485	561	1,460
	L	12'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	688
	M	12'	Comp	<0.050	0.656	171	3,500	457	3,671	4,128	192
	N	12'	Comp	<0.050	<0.300	<100	2,150	689	2,150	2,839	800
	O	12'	Comp	<0.050	<0.300	<100	1,260	466	1,260	1,726	1,170
	P	12'	Comp	<0.050	<0.300	<100	1,870	284	1,870	2,154	880
Boring	B-1	19'-21'	Grab	<0.050	<0.300	<10	390	41.5	390	432	384
		34'-35'	Grab	<0.050	<0.300	<10	<10	<10	<20	<30	656
		49'-51'	Grab	<0.050	<0.300	<10	<10	<10	<20	<30	320
Closure Criteria				10	50			1,000	2,500	10,000	

All concentrations listed in milligrams per kilogram (mg/kg)

Comp: Composite samples collected from walls and floor consist of representative five-point aliquots.

Grab: Grab samples collected from 2-ft split-spoon while drilling with hollow stem auger rig.

Samples delivered to and analyzed by Cardinal Laboratories (Hobbs NM)

Wall and Floor samples obtained on November 20-21, 2018. Boring samples obtained on January 17, 2019.

Table 2
Vent Excavation: Summary of Benzene, BTEX, TPH, and Chloride Concentrations (mg/kg)

Location	Sample ID	Depth BGS (Ft)	Type	Benzene	BTEX	GRO C6-C10	DRO C10-C28	ORO C28-C36	GRO+DRO C6-C28	TPH C6-C36	Chloride
Wall Samples	E. Wall	2'-10'	Comp	<0.050	<0.300	<10	10.4	11.4	10.4	21.8	48
	W. Wall	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	32
	S. Wall	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	16
	N. Wall	2'-10'	Comp	<0.050	<0.300	<10	<10	<10	<20	<30	32
Floor	N. Floor	12'	Comp	<0.050	0.448	<50	1,670	157	1,670	1,827	112
	S. Floor	12'	Comp	<0.050	0.350	<50	387	51.7	387	439	64
Boring	B-1	16'-18'	Grab	<0.050	<0.300	20.4	625	65.4	645	711	48
		31'-32'	Grab	<0.050	<0.300	<10	<10	<10	<20	<30	80

All concentrations listed in milligrams per kilogram (mg/kg)

Comp: Composite samples collected from walls and floor consist of representative five-point aliquots.

Grab: Grab samples collected from 2-ft split-spoon while drilling with hollow stem auger rig.

Samples delivered to and analyzed by Cardinal Laboratories (Hobbs NM)

Wall and Floor samples obtained on January 8, 2019. Boring samples obtained on January 17, 2019.

ATTACHMENT 1

DEPTH TO GROUNDWATER DETERMINATION

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- Please see news on new formats
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322745103093701

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322745103093701 21S.37E.21.24234

Lea County, New Mexico
Latitude 32°27'45", Longitude 103°09'37" NAD27
Land-surface elevation 3,430 feet above NAVD88
The depth of the well is 76 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

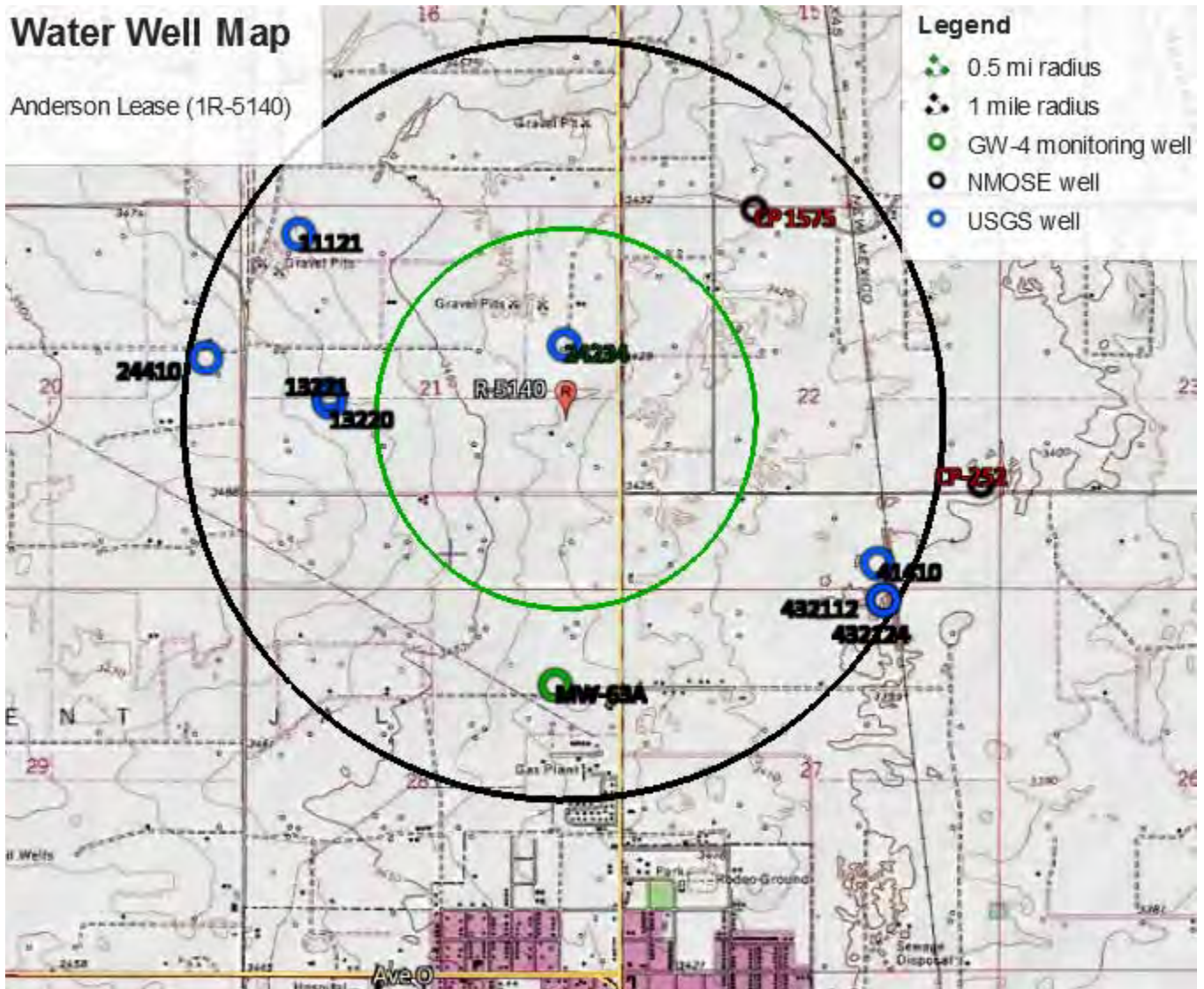
Date	Time	Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Water-level accuracy	Status	Method of measurement	Measuring agency	Source of measurement
1968-04-30		D	57.09			2		U		
1970-12-18		D	57.58			2		U		
1976-01-22		D	57.20			2		U		
1981-02-27		D	56.50			2		U		
1986-03-05		D	56.04			2		U		
1991-04-25		D	56.11			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Water Well Map

Anderson Lease (1R-5140)



Legend

- 0.5 mi radius
- 1 mile radius
- GW-4 monitoring well
- NMOSE well
- USGS well

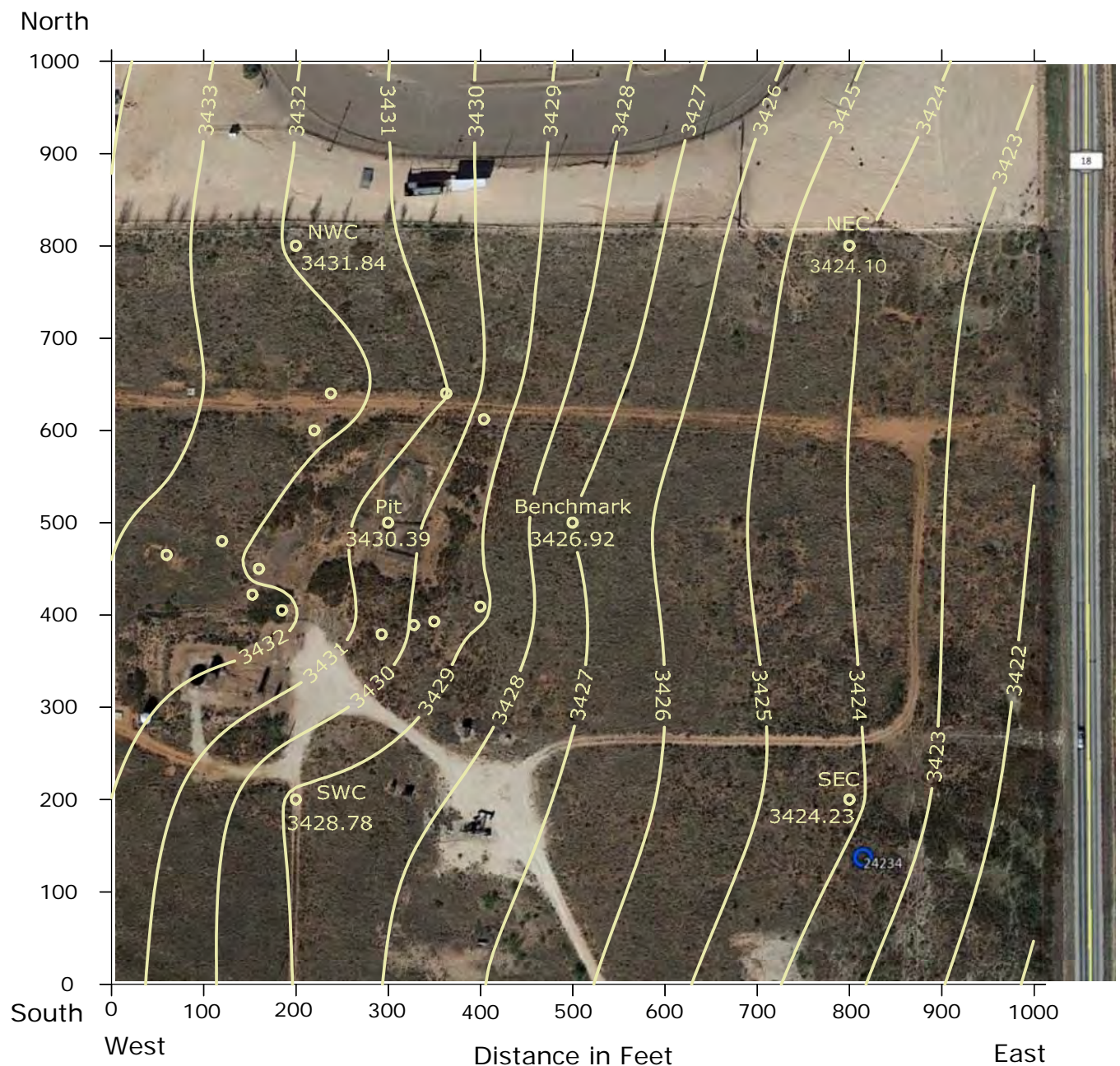
Summary of USGS, NMOSE, and NMOCD Wells Within One-Mile (Listed in order of proximity to 1R-5140 site)

Well Name	Agency	Distance (Miles)	q4	q16	q64	UL	Sec	Tws	Rng	Latitude	Longitude	Well Depth	Depth Water	Date	Surface Elevation	Groundwater Elevation
322745103093701 21S.37E.21.24234	USGS	0.20 N	2	4	2	H	21	21S	37E	32° 27' 45"	103° 09' 37"	76	56.11	04/25/91	3430	3374
322752103102101 21S.37E.21.13221	USGS	0.63 W	1	3	2	E	21	21S	37E	32° 27' 52"	103° 10' 21"	108	77.77	12/02/65	3475	3397
322751103102101 21S.37E.21.13220	USGS	0.63 W	1	3	2	E	21	21S	37E	32° 27' 51"	103° 10' 21"	120	80.12	12/10/70	3476	3396
MW-63A	NMOCD	0.69 SE	3	2	2	A	21	21S	37E	32° 27' 12"	103° 09' 44"	111	56.09	11/03/15	3435	3379
CP 1575	NMOSE	0.74 NE	1	2	1	C	22	21S	37E	32° 28' 17"	103° 09' 12"	40	35	---	3421	3386
322814103102601 21S.37E.21.11121	USGS	0.86 NW	1	1	1	D	21	21S	37E	32° 28' 14"	103° 10' 26"	---	73.07	01/10/54	3462	3389
322729103085201 21S.37E.22.41410	USGS	0.90 SE	4	1	4	J	22	21S	37E	32° 27' 29"	103° 08' 52"	106	68.83	01/27/76	3402	3333
322724103085101 21S.37E.22.432112	USGS	0.96 SE	4	3	2	O	22	21S	37E	32° 27' 24"	103° 08' 51"	94	66.62	04/19/77	3402	3335
322724103085102 21S.37E.22.432124	USGS	0.96 SE	4	3	2	O	22	21S	37E	32° 27' 24"	103° 08' 51"	103	66.73	01/27/76	3402	3335
322745103104001 21S.37E.20.24410	USGS	0.97 SE	2	4	4	H	20	21S	37E	32° 27' 57"	103° 10' 41"	123	98.69	03/06/96	3491	3392
CP 252	NMOSE	1.1 ESE	4	2	4	I	22	21S	37E	32° 27' 29"	103° 08' 35"	106	78	---	3401	3323



Surface Topography Survey

A limited surface topography survey was conducted by Trident on January 19-20, 2019, using Trimble laser level equipment and five benchmarks which were established by Transglobal Services LLC on October 2, 2014. A benchmark elevation of 3426.92 ft AMSL, was found 200 ft east of the former pit, which was used to correlate to the pit site elevation. Based on this survey datum, the pit site elevation would be 3430.39. The survey data was input into Surfer to generate the surface elevation contours depicted below.





2015 Annual Groundwater Monitoring Report

**Former Eunice North Gas Plant
Eunice, Lea County, New Mexico**

Mr. Kegan Boyer
Chevron Environmental Management Company
1400 Smith Street,
Houston, Texas 77002

A handwritten signature in black ink, appearing to read "M. Wisniowiecki", written over a horizontal line.

Michael Wisniowiecki, Project Manager

A handwritten signature in black ink, appearing to read "Joe Cruseturner", written over a horizontal line.

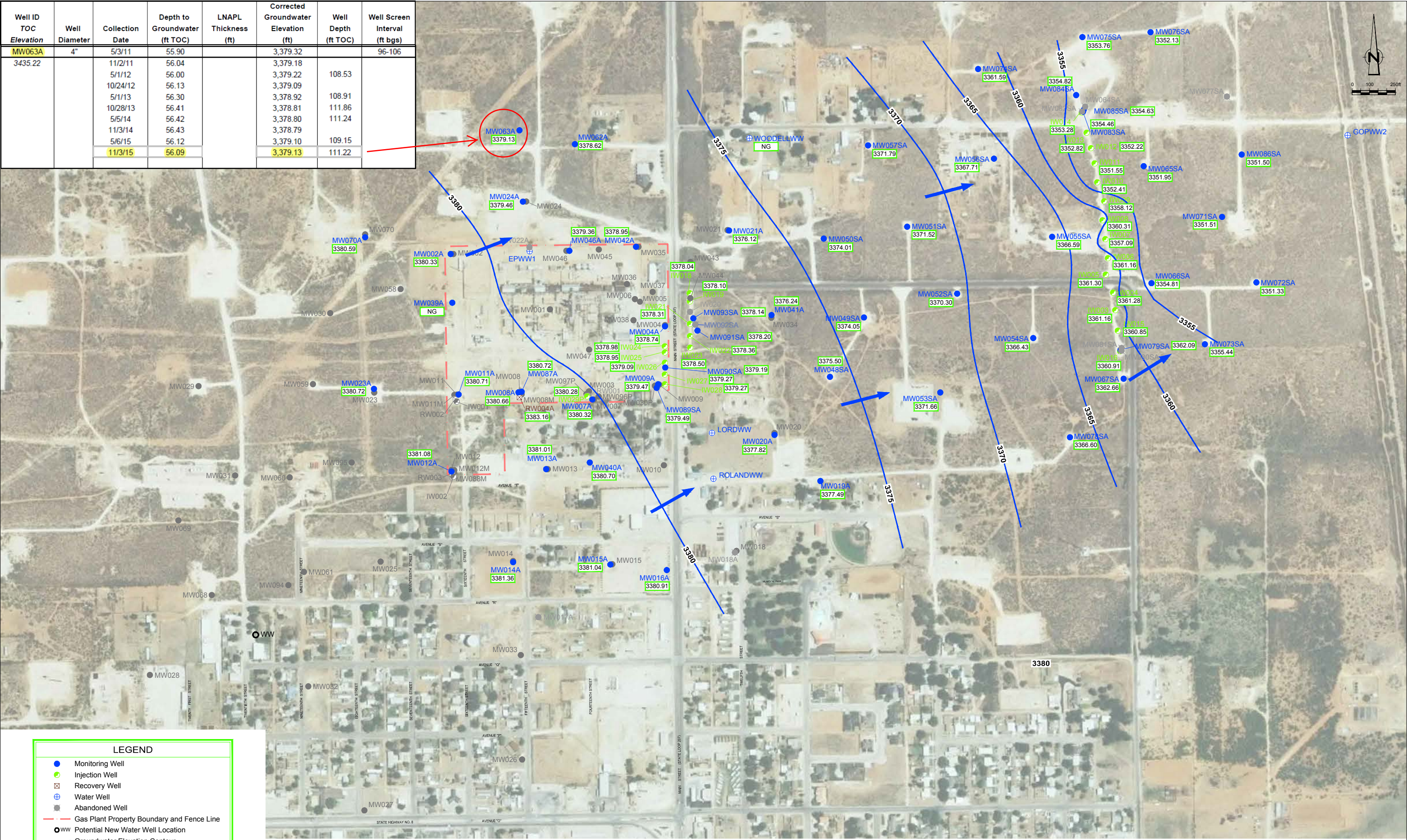
Joe Cruseturner, Principal

6320 Rothway Street, Suite 100 Houston Texas 77040 USA
073018 | 2015 | 01 | Report No 12 | February 2016

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW062A 3434.19	4"	5/3/11	55.28		3,378.91	110.53	98-108
		11/2/11	55.56		3,378.63		
		5/1/12	55.50		3,378.69		
		10/24/12	55.72		3,378.47		
		5/1/13	55.78		3,378.41		
		10/28/13	55.99		3,378.20		
		5/5/14	56.02		3,378.17		
		11/3/14	55.95		3,378.24		
		5/6/15	55.59		3,378.60		
		11/3/15	56.09		3,379.13		
MW063A 3435.22	4"	5/3/11	55.90		3,379.32		96-106
		11/2/11	56.04		3,379.18	108.53	
		5/1/12	56.00		3,379.22		
		10/24/12	56.13		3,379.09		
		5/1/13	56.30		3,378.92		
		10/28/13	56.41		3,378.81		
		5/5/14	56.42		3,378.80		
		11/3/14	56.43		3,378.79		
		5/6/15	56.12		3,379.10		
		11/3/15	56.09		3,379.13		
MW064SA 3405.15	4"	5/4/11	51.09		3,354.06	77.32	35-75
		11/2/11	51.29		3,353.86		
		5/2/12	51.33		3,353.82		
		10/23/12	51.36		3,353.79		
		4/29/13	51.31		3,353.84		
		4/1/14			P&A		
MW065SA 3402.96	4"	5/4/11	51.48		3,351.48	82.35	40-80
		11/3/11	51.81		3,351.15		
		5/1/12	51.72		3,351.24		
		10/23/12	51.69		3,351.27		
		4/29/13	51.64		3,351.32		
		10/28/13	51.85		3,351.11		
		5/5/14	51.48		3,351.48		
		11/3/14	51.53		3,351.43		
		5/5/15	51.05		3,351.91		
		11/2/15	51.01		3,351.95		
MW066SA 3404.03	4"	5/4/11	49.67		3,354.36	69.85	41-66
		11/3/11	50.47		3,353.56		
		5/2/12	50.24		3,353.79		
		10/23/12	50.56		3,353.47		
		4/29/13	50.20		3,353.83		
		10/29/13	50.81		3,353.22		
		5/5/14	50.09		3,353.94		
		11/3/14	50.45		3,353.58		
		5/5/15	49.14		3,354.89		
		11/2/15	49.22		3,354.81		
MW067SA 3409.16	4"	5/5/11	46.54		3,362.62	84.10	43-83
		11/3/11	47.18		3,361.98		
		5/2/12	46.89		3,362.27		
		10/23/12	47.25		3,361.91		
		4/29/13	46.95		3,362.21		
		10/29/13	47.54		3,361.62		
		5/5/14	47.00		3,362.16		
		11/3/14	47.22		3,361.94		
		5/5/15	46.30		3,362.86		
		11/3/15	46.5		3,362.66		

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW063A	4"	5/3/11	55.90		3,379.32		96-106
3435.22		11/2/11	56.04		3,379.18		
		5/1/12	56.00		3,379.22	108.53	
		10/24/12	56.13		3,379.09		
		5/1/13	56.30		3,378.92	108.91	
		10/28/13	56.41		3,378.81	111.86	
		5/5/14	56.42		3,378.80	111.24	
		11/3/14	56.43		3,378.79		
		5/6/15	56.12		3,379.10	109.15	
		11/3/15	56.09		3,379.13	111.22	



ATTACHMENT 2

BOREHOLE LITHOLOGIC LOGS

LITHOLOGIC LOG AND BOREHOLE CONSTRUCTION DIAGRAM



BORING NO.: **B-1 (Pit)** TOTAL DEPTH: **56 Feet bgs**

SITE NAME: **Anderson Lease**

CLIENT: **JR Cone Operating LLC**

CONTRACTOR: **Atkins Engineering**

COUNTY: **Lea**

DRILLING METHOD: **Hollow-Stem auger**

STATE: **New Mexico**

START DATE: **January 17, 2019**

LOCATION: **T21S - R37E - Section 21 - Unit Letter I**

COMPLETION DATE: **January 17, 2019**

FIELD REP.: **Gil Van Deventer, PG**

COMMENTS: **Boring located at bottom of pit 15 ft below ground surface**

Latitude: **N 32.46348 °**, Longitude: **W -103.16193 °**

Borehole Plugging Method	Depth Below Pit Floor	Ground Surface	Time	Sample Type	OVA (ppm)	SC (mS/cm)	Blow Counts per 6"	USCS	LITHOLOGIC DESCRIPTION: LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION
		5						SM/SW	Fine sandy loam Fine and very fine-grained sand, reddish-brown (10R 4/3) subangular, poorly sorted, unconsolidated, dry
		10							
Pit Floor ↓ ↓ ↓ ↓	0	15						CAL/SM	Caliche (some very fine sand), light gray (10YR 8/2) Pit Floor
3/8 Bentonite Hole Plug Backfill	5	20	0913	SS (4-6')	57	0.30	15, 11, 12, 15	SW	Fine-grained calcareous sand, dull orange (5YR 6/4), unconsolidated, dry
	10	25	1025	SS (9-10.5')	11	0.65	8, 21, 50	SW	Fine-grained sand, light brown (5YR 5/6), unconsolidated, slightly cemented
	15	30	1040	SS (14-14.5')	11	0.44	50	CAL/SM	Caliche and fine-grained sand, grayish orange (10YR 7/4), indurated (very hard)
	20	35	1100	SS (19-20')	19	0.82	15, 50	SM/CAL	Fine-grained sand and caliche, grayish orange (10YR 7/4), very strongly cemented (hard)
	25	40	1120	SS (24-26')	8	0.54	14, 25, 17, 18	SW	Fine-grained sand, light brown (5YR 6/4), subrounded, moderately sorted, unconsolidated, dry
	30	45	1140	SS (29-31')	12	0.30	8, 10, 18, 31	SW	Fine-grained sand, light brown (5YR 6/4), subrounded, moderately sorted, unconsolidated, dry
	35	50	1200	SS (34-36')	7	0.26	8, 17, 20, 23	SW	Fine-grained sand, light brown (5YR 6/4), subrounded, moderately sorted, unconsolidated, dry
	40	55	1220	SS (40-41')				SW	Water table encountered at approx. 56 ft below ground surface
SS = Splitspoon									Bottom of boring at 41 ft below pit floor (56 ft below ground surface).

← 6.25" →

LITHOLOGIC LOG AND BOREHOLE CONSTRUCTION DIAGRAM



BORING NO.: **B-1 (Vent)** TOTAL DEPTH: 32 Feet bgs
 SITE NAME: Anderson Lease CLIENT: JR Cone Operating LLC
 CONTRACTOR: Atkins Engineering COUNTY: Lea
 DRILLING METHOD: Hollow-Stem auger STATE: New Mexico
 START DATE: January 17, 2019 LOCATION: T21S - R37E - Section 21 - Unit Letter I
 COMPLETION DATE: January 17, 2019 FIELD REP.: Gil Van Deventer, PG
 COMMENTS: Boring located at bottom of pit 15 ft below ground surface
 Latitude: N 32.46341 °, Longitude: W -103.16238 °

Borehole Plugging Method	Depth Below		Time	Sample Type	OVA (ppm)	SC (mS/cm)	Blow Counts per 6"	USCS	LITHOLOGIC DESCRIPTION: LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION
	Pit Floor	Ground Surface							
Pit Floor ↓ ↓								SW	Fine sandy loam
		5						SM/SW	Fine and very fine-grained sand, reddish-brown (10R 4/3) subangular, poorly sorted, unconsolidated, dry
		10							
	0								Pit Floor →
		15						CAL/SM	Caliche and fine-grained sand, grayish orange (10YR 7/4), strongly cemented (hard)
	5		1350	SS (4-6')			9, 16, 15, 14		Fine-grained calcareous sand, light brown (5YR 5/6), unconsolidated, slightly cemented
	20							SM/CAL	Fine-grained calcareous sand, light brown (5YR 5/6), unconsolidated, slightly cemented
	10		1410	SS (9-11')			10, 16, 18, 23		
	25								
	15		1423	SS (14-14.5')			50 (4")		Caliche and fine-grained sand, grayish orange (10YR 7/4), indurated (very hard)
3/8 Bentonite Hole Plug		30						CAL/SM	
	20	32	1440	SS (19-20')			38, 50		Caliche and fine-grained sand, grayish orange (10YR 7/4), very strongly cemented (hard)

← 6.25" →

SS = Splitspoon

Bottom of boring at 20 ft below floor of vent excavation (32 ft below ground surface).

ATTACHMENT 3

PHOTOGRAPHS



Photo #1: Pit view facing northeast prior to fence removal and excavation (8/15/2018)



Photo #2: View of pit in foreground facing southwest with Anderson tank battery in background (8/15/2018)



Photo #3: View facing south-southwest showing excavation at south end of pit area on Day 3 (10/3/2018)



Photo #4: View facing north-northeast showing excavation at north end of pit area in background on Day 10 (10/12/2018)



Photo #5: View facing SSW showing near completion of pit excavation work on Day 26 (11/1/2018)



Photo #6: View facing north showing near completion of pit excavation work on Day 26 (11/1/2018)



Photo #7: Facing WNW after 3 more ft of soil removed (15 ft bgs) at south end of pit area & ramp built for drilling access (1/10/2019)



Photo #8: View facing southwest showing hollow-stem drilling rig at 15 ft bgs on floor of south end of pit area (01/17/2019)



Photo #9: Facing northeast showing vent in foreground and hardpan hydrocarbon staining in background prior to excavation (8/15/2018)



Photo #10: View facing south towards vent pipe and tank battery after third day of excavating vent area (10/5/2018)



Photo #11: Facing northeast showing completion of excavation to 12 ft bgs into caliche layer at vent area (1/10/2019)



Photo #12: View facing ENE showing hollow-stem drilling rig at 12 ft bgs on floor of vent excavation (01/17/2019)

ATTACHMENT 4

LABORATORY ANALYTICAL REPORTS



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

December 03, 2018

GIL VAN DEVENTER

TRIDENT ENVIRONMENTAL

P. O. BOX 12177

ODESSA, TX 79768

RE: ANDERSON LEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/21/18 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E. WALL - 1 (H803426-01)

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	11/29/2018	ND	2.23	112	2.00	3.62	
Toluene*	<0.050	0.050	11/29/2018	ND	2.18	109	2.00	3.69	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	2.08	104	2.00	2.83	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	6.62	110	6.00	2.73	
Total BTX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/29/2018	ND	432	108	400	3.77		

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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E. WALL - 2 (H803426-02)

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	11/29/2018	ND	2.23	112	2.00	3.62	
Toluene*	<0.050	0.050	11/29/2018	ND	2.18	109	2.00	3.69	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	2.08	104	2.00	2.83	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	6.62	110	6.00	2.73	
Total BTX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/29/2018	ND	432	108	400	3.77	

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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 89.8 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E. WALL - 3 (H803426-03)

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	11/29/2018	ND	2.23	112	2.00	3.62	
Toluene*	<0.050	0.050	11/29/2018	ND	2.18	109	2.00	3.69	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	2.08	104	2.00	2.83	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	6.62	110	6.00	2.73	
Total BTEX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/29/2018	ND	432	108	400	3.77	

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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E. WALL - 4 (H803426-04)

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	11/29/2018	ND	2.23	112	2.00	3.62	
Toluene*	<0.050	0.050	11/29/2018	ND	2.18	109	2.00	3.69	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	2.08	104	2.00	2.83	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	6.62	110	6.00	2.73	
Total BTX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	11/29/2018	ND	432	108	400	3.77		

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	12/03/2018	ND	219	110	200	2.37	
DRO >C10-C28*	106	10.0	12/03/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	67.0	10.0	12/03/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S. WALL - 1 (H803426-05)

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	11/29/2018	ND	2.23	112	2.00	3.62	
Toluene*	<0.050	0.050	11/29/2018	ND	2.18	109	2.00	3.69	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	2.08	104	2.00	2.83	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	6.62	110	6.00	2.73	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/29/2018	ND	432	108	400	3.77		

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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S. WALL - 2 (H803426-06)

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	11/29/2018	ND	2.23	112	2.00	3.62	
Toluene*	<0.050	0.050	11/29/2018	ND	2.18	109	2.00	3.69	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	2.08	104	2.00	2.83	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	6.62	110	6.00	2.73	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	11/29/2018	ND	432	108	400	3.77	

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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W. WALL - 1 (H803426-07)

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	11/29/2018	ND	2.23	112	2.00	3.62	
Toluene*	<0.050	0.050	11/29/2018	ND	2.18	109	2.00	3.69	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	2.08	104	2.00	2.83	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	6.62	110	6.00	2.73	
Total BTX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	11/29/2018	ND	432	108	400	3.77		

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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRIDENT ENVIRONMENTAL
 GIL VAN DEVENTER
 P. O. BOX 12177
 ODESSA TX, 79768
 Fax To: (413) 403-9968

Received:	11/21/2018	Sampling Date:	11/20/2018
Reported:	12/03/2018	Sampling Type:	Soil
Project Name:	ANDERSON LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: W. WALL - 2 (H803426-08)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485		
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285		
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459		
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461		
Total BTEx	<0.300	0.300	11/29/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

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	11/29/2018	ND	416	104	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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W. WALL - 3 (H803426-09)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/29/2018	ND	416	104	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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 87.5 % 41-142

Surrogate: 1-Chlorooctadecane 98.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRIDENT ENVIRONMENTAL
 GIL VAN DEVENTER
 P. O. BOX 12177
 ODESSA TX, 79768
 Fax To: (413) 403-9968

 Received: 11/21/2018
 Reported: 12/03/2018
 Project Name: ANDERSON LEASE
 Project Number: NONE GIVEN
 Project Location: EUNICE NM

 Sampling Date: 11/20/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W. WALL - 4 (H803426-10)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	11/29/2018	ND	416	104	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	11/28/2018	ND	219	110	200	2.37	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	256	128	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N. WALL - 1 (H803426-11)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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Analytical Results For:

 TRIDENT ENVIRONMENTAL
 GIL VAN DEVENTER
 P. O. BOX 12177
 ODESSA TX, 79768
 Fax To: (413) 403-9968

Received:	11/21/2018	Sampling Date:	11/20/2018
Reported:	12/03/2018	Sampling Type:	Soil
Project Name:	ANDERSON LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: N. WALL - 2 (H803426-12)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR A (H803426-13)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

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GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR B (H803426-14)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

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	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR C (H803426-15)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

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	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/20/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR D (H803426-16)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485		
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285		
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459		
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461		
Total BTEX	<0.300	0.300	11/29/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.8 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR E (H803426-17)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 79.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR F (H803426-18)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR G (H803426-19)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR H (H803426-20)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 79.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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Analytical Results For:

 TRIDENT ENVIRONMENTAL
 GIL VAN DEVENTER
 P. O. BOX 12177
 ODESSA TX, 79768
 Fax To: (413) 403-9968

 Received: 11/21/2018
 Reported: 12/03/2018
 Project Name: ANDERSON LEASE
 Project Number: NONE GIVEN
 Project Location: EUNICE NM

 Sampling Date: 11/21/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FLOOR 1 (H803426-21)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	0.176	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEX	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	11/29/2018	ND	416	104	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*	65.5	50.0	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	1480	50.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	162	50.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

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GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR J (H803426-22)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	0.075	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	1.65	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEX	1.72	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/29/2018	ND	416	104	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*	248	50.0	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	2420	50.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	326	50.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 153 % 37.6-147

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GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR K (H803426-23)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	11/29/2018	ND	416	104	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*	17.7	10.0	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	467	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	75.9	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR L (H803426-24)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	11/29/2018	ND	416	104	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	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	<10.0	10.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 76.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received:	11/21/2018	Sampling Date:	11/21/2018
Reported:	12/03/2018	Sampling Type:	Soil
Project Name:	ANDERSON LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: FLOOR M (H803426-25)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485		
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285		
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459		
Total Xylenes*	0.656	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461		
Total BTEX	0.656	0.300	11/29/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/29/2018	ND	416	104	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*	171	50.0	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	3500	50.0	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	457	50.0	11/29/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 184 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR N (H803426-26)

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	11/29/2018	ND	1.99	99.7	2.00	0.0485	
Toluene*	<0.050	0.050	11/29/2018	ND	1.94	97.1	2.00	0.285	
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.85	92.7	2.00	0.459	
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.93	98.8	6.00	0.461	
Total BTEx	<0.300	0.300	11/29/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	11/29/2018	ND	416	104	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*	<100	100	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	2150	100	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	689	100	11/29/2018	ND					

Surrogate: 1-Chlorooctane 66.9 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR O (H803426-27)

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	11/30/2018	ND	1.96	97.9	2.00	4.07		
Toluene*	<0.050	0.050	11/30/2018	ND	1.92	95.8	2.00	3.75		
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.84	92.2	2.00	2.77		
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.92	98.6	6.00	3.31		
Total BTX	<0.300	0.300	11/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	11/29/2018	ND	416	104	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*	<100	100	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	1260	100	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	466	100	11/29/2018	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 11/21/2018
Reported: 12/03/2018
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 11/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR P (H803426-28)

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	11/29/2018	ND	1.92	95.9	2.00	5.23		
Toluene*	<0.050	0.050	11/29/2018	ND	1.90	95.0	2.00	6.49		
Ethylbenzene*	<0.050	0.050	11/29/2018	ND	1.86	92.8	2.00	5.42		
Total Xylenes*	<0.150	0.150	11/29/2018	ND	5.58	92.9	6.00	4.89		
Total BTEx	<0.300	0.300	11/29/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	11/29/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	11/29/2018	ND	210	105	200	5.20	
DRO >C10-C28*	1870	100	11/29/2018	ND	225	113	200	2.89	
EXT DRO >C28-C36	284	100	11/29/2018	ND					

Surrogate: 1-Chlorooctane 72.7 % 41-142

Surrogate: 1-Chlorooctadecane 131 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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.
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



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

COC # 112118 Page 1 of 3

Company Name: <u>Trident Environmental</u>				BILL TO				ANALYSIS REQUEST															
Project Manager: <u>Gil Van Deventer</u>				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div> Company: <u>JR Cone Operating, LLC</u> Attn: <u>Jim Cone</u> Address: <u>P.O. Box 10217</u> City: <u>Lubbock</u> State: <u>Tx</u> Zip: <u>79408</u> Phone #: <u>806-763-8211</u> Fax #: </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> BTEX TPH Chloride </div> </div>															
Address: <u>P.O. Box 12177</u>				Company: <u>JR Cone Operating, LLC</u>																			
City: <u>Odessa</u> State: <u>TX</u> Zip: <u>79768</u>				Attn: <u>Jim Cone</u>																			
Phone #: <u>432-638-8740</u> Fax #:				Address: <u>P.O. Box 10217</u>																			
Project #: _____ Project Owner: _____				City: <u>Lubbock</u>																			
Project Name: <u>Anderson Lease</u>				State: <u>Tx</u> Zip: <u>79408</u>																			
Project Location: <u>Euhria NM</u>				Phone #: <u>806-763-8211</u>																			
Sampler Name: <u>Gil Van Deventer & Al Scott</u>				Fax #:																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(GRAB OR C)COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME	BTEX	TPH	Chloride						
<u>H803426</u>																							
	<u>1 E. Wall - 1</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>0830</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>2 E. Wall - 2</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>0920</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>3 E. Wall - 3</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>1010</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>4 E. Wall - 4</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>1100</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>5 S. Wall - 1</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>1130</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>6 S. Wall - 2</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>1200</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>7 W. Wall - 1</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>1300</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>8 W. Wall - 2</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>1330</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>9 W. Wall - 3</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>1400</u>	<u>X</u>	<u>X</u>	<u>X</u>						
	<u>10 W. Wall - 4</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-20-18</u>	<u>1430</u>	<u>X</u>	<u>X</u>	<u>X</u>						

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Relinquished By: <u>[Signature]</u>	Date: <u>11-21-18</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>15:30</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>email results to gil@trident-environmental.com</u>	
	Time:		<u>and to Jim Cone</u>	
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <u>1.8e #97</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>TO</u>	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

COC # 112118 Page 2 of 3

[illegible]

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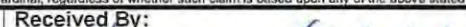

Relinquished By:  Relinquished By:		Date: 11-2-18 Time: 15:30	Received By:  Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 1.80 #97		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) TO.	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

COC #112118 Page 3 of 3

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Relinquished By: 		Date: 11-21-14		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 15:30				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)			
1-800 #97		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes					

January 14, 2019

GIL VAN DEVENTER

TRIDENT ENVIRONMENTAL

P. O. BOX 12177

ODESSA, TX 79768

RE: ANDERSON LEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/08/19 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 01/08/2019
Reported: 01/14/2019
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 01/08/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: VENT EAST WALL (H900044-01)

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	01/10/2019	ND	2.19	109	2.00	1.43	
Toluene*	<0.050	0.050	01/10/2019	ND	2.23	111	2.00	0.594	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.24	112	2.00	1.72	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.78	113	6.00	0.793	
Total BTEX	<0.300	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

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	01/10/2019	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	01/09/2019	ND	216	108	200	8.17	
DRO >C10-C28*	10.4	10.0	01/09/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	11.4	10.0	01/09/2019	ND					

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 80.4 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 01/08/2019
Reported: 01/14/2019
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 01/08/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: VENT WEST WALL (H900044-02)

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	01/10/2019	ND	2.19	109	2.00	1.43	
Toluene*	<0.050	0.050	01/10/2019	ND	2.23	111	2.00	0.594	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.24	112	2.00	1.72	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.78	113	6.00	0.793	
Total BTEX	<0.300	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

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	01/10/2019	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	01/09/2019	ND	216	108	200	8.17	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 01/08/2019
Reported: 01/14/2019
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 01/08/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: VENT SOUTH WALL (H900044-03)

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	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTX	<0.300	0.300	01/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

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	01/10/2019	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	01/09/2019	ND	216	108	200	8.17	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					

Surrogate: 1-Chlorooctane 84.7 % 41-142

Surrogate: 1-Chlorooctadecane 75.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received: 01/08/2019
Reported: 01/14/2019
Project Name: ANDERSON LEASE
Project Number: NONE GIVEN
Project Location: EUNICE NM

Sampling Date: 01/08/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: VENT NORTH WALL (H900044-04)

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	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

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	01/10/2019	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	01/09/2019	ND	216	108	200	8.17	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					

Surrogate: 1-Chlorooctane 67.3 % 41-142

Surrogate: 1-Chlorooctadecane 62.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received:	01/08/2019	Sampling Date:	01/08/2019
Reported:	01/14/2019	Sampling Type:	Soil
Project Name:	ANDERSON LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

FLOOR
Sample ID: VENT NORTH WALL (12') (H900044-05)

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	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	0.448	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	0.448	0.300	01/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

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	01/10/2019	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*	<50.0	50.0	01/09/2019	ND	216	108	200	8.17	
DRO >C10-C28*	1670	50.0	01/09/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	157	50.0	01/09/2019	ND					

Surrogate: 1-Chlorooctane 78.2 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received:	01/08/2019	Sampling Date:	01/08/2019
Reported:	01/14/2019	Sampling Type:	Soil
Project Name:	ANDERSON LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

FLOOR
Sample ID: VENT SOUTH WALL (12') (H900044-06)

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	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	0.350	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	0.350	0.300	01/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

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	01/10/2019	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*	<50.0	50.0	01/09/2019	ND	216	108	200	8.17	
DRO >C10-C28*	387	50.0	01/09/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	51.7	50.0	01/09/2019	ND					

Surrogate: 1-Chlorooctane 77.1 % 41-142

Surrogate: 1-Chlorooctadecane 74.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager





CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]

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Relinquished By: 		Date: 1-8-19	Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 4:55pm			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:				
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)		
5.10 #97		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		JO		



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

January 23, 2019

GIL VAN DEVENTER

TRIDENT ENVIRONMENTAL

P. O. BOX 12177

ODESSA, TX 79768

RE: ANDERSON TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/18/19 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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

Analytical Results For:

 TRIDENT ENVIRONMENTAL
 GIL VAN DEVENTER
 P. O. BOX 12177
 ODESSA TX, 79768
 Fax To: (413) 403-9968

Received:	01/18/2019	Sampling Date:	01/17/2019
Reported:	01/23/2019	Sampling Type:	Soil
Project Name:	ANDERSON TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(1R-5140) - V274	Sample Received By:	Jodi Henson
Project Location:	T21S-R37E, SEC21, UNIT LETTER I, LEA (

Sample ID: PIT B-1 (4'-6') (H900177-01)

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	01/22/2019	ND	2.18	109	2.00	2.04	
Toluene*	<0.050	0.050	01/22/2019	ND	2.10	105	2.00	1.06	
Ethylbenzene*	<0.050	0.050	01/22/2019	ND	2.11	106	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/22/2019	ND	6.46	108	6.00	3.61	
Total BTX	<0.300	0.300	01/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/21/2019	ND	432	108	400	3.77	

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	390	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	41.5	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received:	01/18/2019	Sampling Date:	01/17/2019
Reported:	01/23/2019	Sampling Type:	Soil
Project Name:	ANDERSON TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(1R-5140) - V274	Sample Received By:	Jodi Henson
Project Location:	T21S-R37E, SEC21, UNIT LETTER I, LEA (

Sample ID: PIT B-1 (19'-20') (H900177-02)

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	01/22/2019	ND	2.18	109	2.00	2.04	
Toluene*	<0.050	0.050	01/22/2019	ND	2.10	105	2.00	1.06	
Ethylbenzene*	<0.050	0.050	01/22/2019	ND	2.11	106	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/22/2019	ND	6.46	108	6.00	3.61	
Total BTEX	<0.300	0.300	01/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	01/21/2019	ND	432	108	400	3.77	

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane 86.7 % 41-142

Surrogate: 1-Chlorooctadecane 79.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received:	01/18/2019	Sampling Date:	01/17/2019
Reported:	01/23/2019	Sampling Type:	Soil
Project Name:	ANDERSON TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(1R-5140) - V274	Sample Received By:	Jodi Henson
Project Location:	T21S-R37E, SEC21, UNIT LETTER I, LEA (

Sample ID: PIT B-1 (34'-36') (H900177-03)

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	01/22/2019	ND	2.18	109	2.00	2.04		
Toluene*	<0.050	0.050	01/22/2019	ND	2.10	105	2.00	1.06		
Ethylbenzene*	<0.050	0.050	01/22/2019	ND	2.11	106	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/22/2019	ND	6.46	108	6.00	3.61		
Total BTEx	<0.300	0.300	01/22/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/21/2019	ND	432	108	400	3.77		

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 78.8 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received:	01/18/2019	Sampling Date:	01/17/2019
Reported:	01/23/2019	Sampling Type:	Soil
Project Name:	ANDERSON TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(1R-5140) - V274	Sample Received By:	Jodi Henson
Project Location:	T21S-R37E, SEC21, UNIT LETTER I, LEA (

Sample ID: VENT B-1 (4'-6') (H900177-04)

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	01/22/2019	ND	2.18	109	2.00	2.04	
Toluene*	<0.050	0.050	01/22/2019	ND	2.10	105	2.00	1.06	
Ethylbenzene*	<0.050	0.050	01/22/2019	ND	2.11	106	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/22/2019	ND	6.46	108	6.00	3.61	
Total BTEx	<0.300	0.300	01/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

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	01/21/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.4	10.0	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	625	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	65.4	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.6 % 37.6-147

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Analytical Results For:

TRIDENT ENVIRONMENTAL
GIL VAN DEVENTER
P. O. BOX 12177
ODESSA TX, 79768
Fax To: (413) 403-9968

Received:	01/18/2019	Sampling Date:	01/17/2019
Reported:	01/23/2019	Sampling Type:	Soil
Project Name:	ANDERSON TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(1R-5140) - V274	Sample Received By:	Jodi Henson
Project Location:	T21S-R37E, SEC21, UNIT LETTER I, LEA (

Sample ID: VENT B-1 (19'-20') (H900177-05)

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	01/22/2019	ND	2.18	109	2.00	2.04		
Toluene*	<0.050	0.050	01/22/2019	ND	2.10	105	2.00	1.06		
Ethylbenzene*	<0.050	0.050	01/22/2019	ND	2.11	106	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/22/2019	ND	6.46	108	6.00	3.61		
Total BTEX	<0.300	0.300	01/22/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	01/21/2019	ND	432	108	400	3.77		

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane 74.2 % 41-142

Surrogate: 1-Chlorooctadecane 66.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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