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Revised Closure Report Addendum

Corazon State Unit #5H
Lea County, New Mexico
API # 30-025-40947 *1RP-5474

Prepared For:

COG Operating, LLC
600 West Illinois Avenue
Midland TX, 79701

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

July 6, 2020

Ms. Victoria Venegas
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Revised Closure Report Addendum**
Corazon State Unit #5H
Lea County, New Mexico
API # 30-025-40947 *1RP-5474

Dear Ms. Venegas

COG Operating, LLC (COG) had contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The incident description, soil sampling results, remedial actions, and closure requests are presented herein.

Site Information

The Corazon St 5H is located approximately thirty (30) miles southwest of Hobbs, New Mexico. The legal location for this release is Unit Letter M, Section 3, Township 21 South and Range 33 East in Lea County, New Mexico. More specifically, the latitude and longitude for the release are 32.50085 North and -103.56786 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kimbrough gravely loam with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Upper Permian in age and is comprised of loamy eolian deposits derived from sedimentary rock. Drainage courses in this area are typically dry.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 150-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is located within a low potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater **150 Feet/BGS**

- ☐ Yes ☒ No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- ☐ Yes ☒ No Within 200 feet of any lakebed, sinkhole or playa lake
- ☐ Yes ☒ No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- ☐ Yes ☒ No Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock watering purposes
- ☐ Yes ☒ No Within 1000 feet of any freshwater well or spring
- ☐ Yes ☒ No Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- ☐ Yes ☒ No Within 300 feet of a wetland
- ☐ Yes ☒ No Within the area overlying a subsurface mine
- ☐ Yes ☒ No Within an unstable area
- ☐ Yes ☒ No Within a 100-year floodplain

| Table I Closure Criteria for Soils Impacted by a Release | | | |
|---|-------------------|----------------------------------|--------------|
| Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS | Constituent | Method | Limit |
| >100 feet | Total Chlorides | EPA 300.0 or SM4500 Cl B | 20,000 mg/kg |
| | TPH (GRO+DRO+MRO) | EPA SW-846 Method 8015M | 2,500 mg/kg |
| | GRO+DRO | EPA SW-846 Method 8015M | 1,000 mg/kg |
| | BTEX | EPA SW-846 Method 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Method 8021B or 8260B | 10 mg/kg |

Incident Description

On March 30, 2019, a release occurred from a hole in the flowline. The release impacted only the well pad with a total of 2.5 barrels of produced water and 2.5 barrels of oil. A vacuum truck was dispatched and a total of 2 barrels of produced water and 2 barrels of oil was recovered. A site map is presented in [Appendix I](#).

On May 6, 2019, Talon mobilized personnel and equipment to the site to begin assessment and remediation activities. The impacted area was excavated utilizing a backhoe. Confirmation samples representing the spill area were collected from the bottom and sidewalls of the excavation. Additional excavation and sampling continued to ensure that target level environmental impacts had been addressed.

Complete Soil Sampling Data Table

| Sample ID | Depth (ft.) | Date | BTEX (mg/kg) | Benzene (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | MRO (mg/kg) | Total TPH (mg/kg) | Cl (mg/kg) |
|--------------------------------------|-------------|------|--------------|-----------------|-------------|-------------|-------------|-------------------|--------------|
| Closure Criteria 19.15.29.12 NMAC | | | 50 mg/kg | 10 mg/kg | 1,000 mg/kg | | | 2,500 mg/kg | 20,000 mg/kg |
| S-1 | 5/6/2019 | 0 | 3.7 | 0.05 | 58.4 | 2390 | 727 | 3175.4 | 5840 |
| | 5/9/2019 | 0.5 | 0.449 | 0 | 240 | 1750 | 132 | 2122 | 204 |
| | 5/21/2019 | 1 | 0.3 | 0.05 | ND | 2210 | 601 | 2811 | -- |
| | 5/29/2019 | 2 | ND | ND | ND | ND | ND | ND | -- |
| | | | | | | | | | |
| S-2 | 5/6/2019 | 0 | 0.417 | 0.05 | ND | 34.8 | ND | 34.8 | 24800 |
| | 5/9/2019 | 0.5 | ND | ND | ND | 47.2 | 8.14 | 55.34 | 880 |
| | | | | | | | | | |
| S-3 | 5/6/2019 | 0 | 0.521 | 0.05 | ND | 25.6 | ND | 25.6 | 24800 |
| | 1/16/2020 | 0.5 | -- | -- | -- | -- | -- | -- | 4880 |
| | 1/16/2020 | 1 | -- | -- | -- | -- | -- | -- | 96 |
| | 1/16/2020 | 2 | -- | -- | -- | -- | -- | -- | 96 |
| | | | | | | | | | |
| S-4 | 5/6/2019 | 0 | 29.2 | 0.2 | 908 | 8480 | 1330 | 10718 | 6160 |
| | 1/16/2020 | 0 | -- | -- | ND | ND | ND | ND | -- |
| | 1/16/2020 | 1 | -- | -- | ND | ND | ND | ND | -- |
| | 1/16/2020 | 2 | -- | -- | ND | ND | ND | ND | -- |
| | | | | | | | | | |
| S-5 | 5/6/2019 | 0 | 13.9 | 0.05 | 384 | 5230 | 927 | 6541 | 4480 |
| | 5/9/2019 | 0.5 | 27.5 | 0.105 | 1730 | 8790 | 839 | 11359 | 7450 |
| | 5/21/2019 | 1 | 45.1 | 0.2 | 1490 | 10500 | 2030 | 14020 | -- |
| | 5/29/2019 | 2 | ND | ND | ND | ND | ND | ND | -- |

| Sample ID | Depth (ft.) | Date | BTEX (mg/kg) | Benzene (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | MRO (mg/kg) | Total TPH (mg/kg) | Cl (mg/kg) |
|--------------------------------------|-------------|------|--------------|-----------------|-------------|--------------|-------------|-------------------|--------------|
| Closure Criteria 19.15.29.12 NMAC | | | 50 mg/kg | 10 mg/kg | 1,000 mg/kg | | | 2,500 mg/kg | 20,000 mg/kg |
| S-6 | 5/6/2019 | 0 | 114 | 0.2 | 2990 | 23200 | 3950 | 30140 | 64 |
| | 5/9/2019 | 0.5 | 0.312 | ND | 476 | 3930 | 272 | 4678 | 3870 |
| | 5/21/2019 | 1 | 0.3 | 0.05 | ND | 493 | 118 | 611 | -- |
| S-7 | 5/6/2019 | 0 | 82.8 | 0.2 | 2100 | 23500 | 4520 | 30120 | 752 |
| | 5/21/2019 | 1 | 0.3 | 0.05 | ND | 364 | 83.1 | 447.1 | -- |
| S-8 Sidewall | 5/9/2019 | 0.5 | 1.78 | ND | 653 | 10400 | 1150 | 12203 | 2750 |
| | 5/21/2019 | 1 | 0.3 | 0.05 | ND | 52.1 | ND | 52.1 | -- |
| S-9 Sidewall | 5/9/2019 | 0.5 | ND | ND | ND | 81.9 | 17.8 | 99.7 | 3490 |
| S-10 Sidewall | 5/9/2019 | 0.5 | ND | ND | 13.3 | 2050 | 192 | 2255.3 | 4860 |
| | 6/30/2020 | 0-1 | -- | -- | ND | 56.1 | ND | 56.1 | -- |
| S-11 Sidewall | 5/9/2019 | 0.5 | 0.424 | ND | 606 | 7260 | 738 | 8604 | 76 |
| | 5/21/2019 | 1 | 0.866 | 0.05 | 31 | 1570 | 457 | 2058 | -- |
| | 5/29/2019 | 2 | ND | ND | ND | ND | ND | ND | -- |
| | 6/30/2020 | 1 | -- | -- | ND | ND | ND | ND | -- |
| S-12 Sidewall | 5/9/2019 | 0.5 | ND | ND | 221 | 4980 | 290 | 5491 | 4570 |
| | 5/21/2019 | 1 | 0.3 | 0.05 | ND | 19.1 | ND | 19.1 | -- |
| S-13 | 6/30/2020 | 0-1 | ND | ND | ND | ND | ND | ND | 96 |
| S-14 | 6/30/2020 | 0-1 | ND | ND | ND | ND | ND | ND | 320 |
| S-15 | 6/30/2020 | 0-1 | ND | ND | ND | ND | ND | ND | 32 |
| S-16 | 6/30/2020 | 0-1 | ND | ND | ND | ND | ND | ND | 16 |
| S-17 | 6/30/2020 | 0-1 | ND | ND | ND | ND | ND | ND | 32 |

ND-Analyte Not Detected, -- Analyte Not Tested

See [Appendix V](#) for the complete report of laboratory results.

Remedial Actions

- The impacted areas in the vicinity of S-1, S-4, and S-5 were excavated to a depth of 2.0-foot BGS with representative confirmation samples obtained.
- The impacted areas in the vicinity of S-2 and S-3 were excavated to a depth of 0.5-foot BGS. Representative confirmation bottom and sidewall samples collected.
- The impacted areas in the vicinity of S-6 and S-7 were excavated to a depth of 1.0-foot BGS followed by confirmation sampling.
- All contaminated soil was transported to NMOCD approved soil waste disposal facilities.
- The excavated area was backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- Initial & Final C-141 forms are attached in [Appendix IV](#).

Supplemental Actions

As requested by the NMOCD (see correspondence in [Appendix II](#)), sample points S-10 SW (side wall) and S-11 SW were re-sampled for TPH on June 30, 2020. It is noted that an additional sampling event on 5/29/20, was inadvertently omitted in the revised closure report but is presented herein. All analytical data collected for this project is highlighted above in the Complete Soil Sampling Data Table.

Additionally, NMOCD requested horizontal delineation samples to be collected beyond the original footprint of the release. As a result, supplemental soil samples were collected at sample locations S-13, S-14, S-15, S-16, and S-17 and analyzed for BTEX, TPH and Total Chlorides. As shown on the data table, all petroleum constituents were found to be below laboratory method detection limits and Total Chlorides for all samples collected were below 600 mg/kg. Sample locations are illustrated on the Site Plan ([Appendix I](#)) and the complete laboratory reports can be found in [Appendix VI](#).

Closure

Based on this site characterization, completed remedial actions and the results of supplemental sampling events requested by NMOCD, we respectfully request that no further actions be required and that closure regarding this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE



Brandon Sinclair
Project Manager



David J. Adkins
District Manager

Attachments:

- Appendix I Site Map, Karst Map, TOPO Map & Locator Map
- Appendix II Regulatory Correspondence
- Appendix III Groundwater Data, Soil Survey & FEMA Flood Zone
- Appendix IV Initial & Final C-141
- Appendix V Photographic Documentation
- Appendix VI Laboratory Results



APPENDIX I

SITE MAP

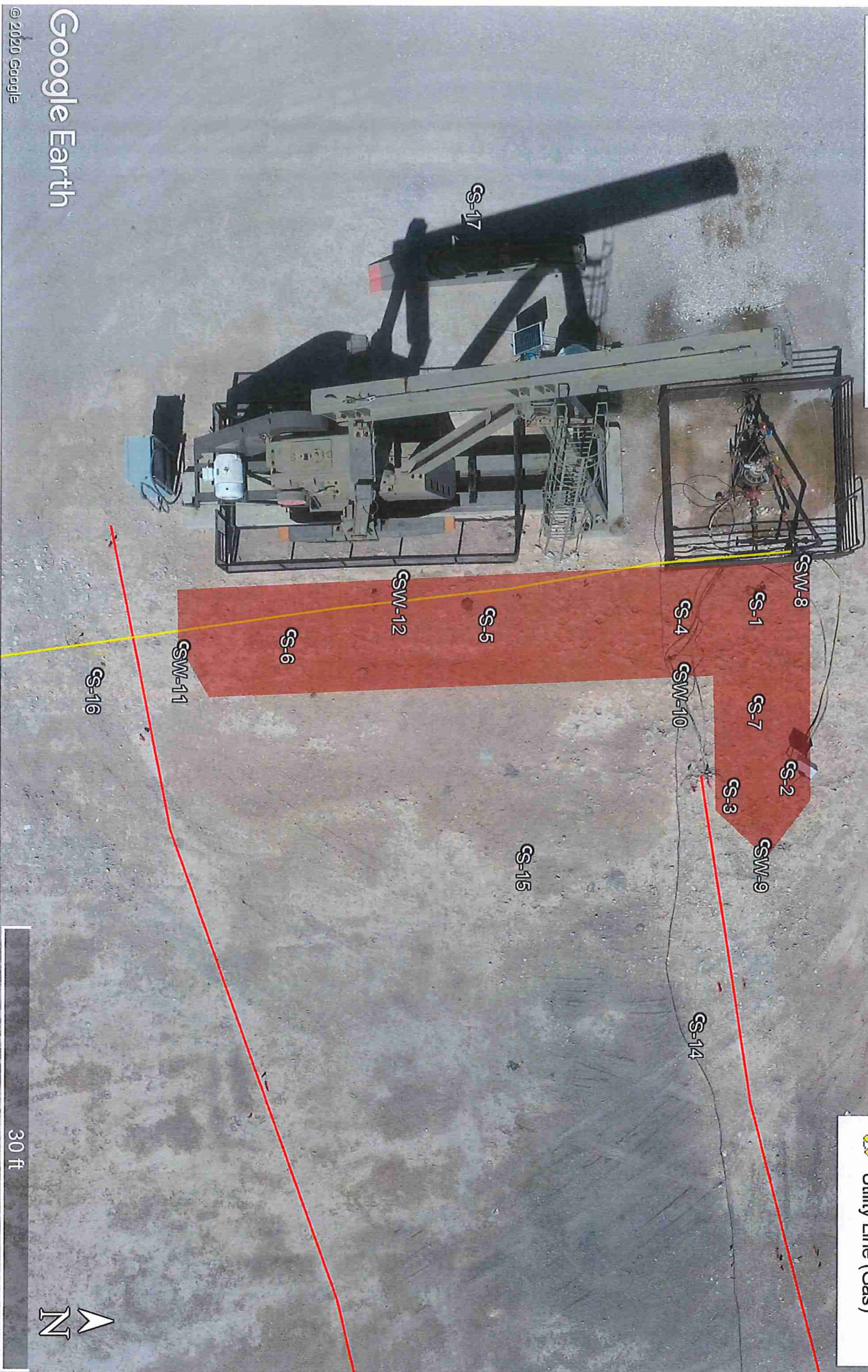
KARST MAP

TOPO MAP

LOCATOR MAP

Corazon State Unit #5H
COG Operating, LLC
API # 30-025-40947
Lea County, NM
Site Map

- Legend**
- Excavation Area
 - Soil Sample
 - Utility Line (Electric)
 - Utility Line (Gas)



COG Operating, LLC
Lea, NM
API 30-025-40947
Karst Map

Lea, NM

API 30-025-40947

Karst Map

243

N Carlsbad Hwy



529

409

41

42



Corazon St Unit #5H
SW-11 6 10'

176



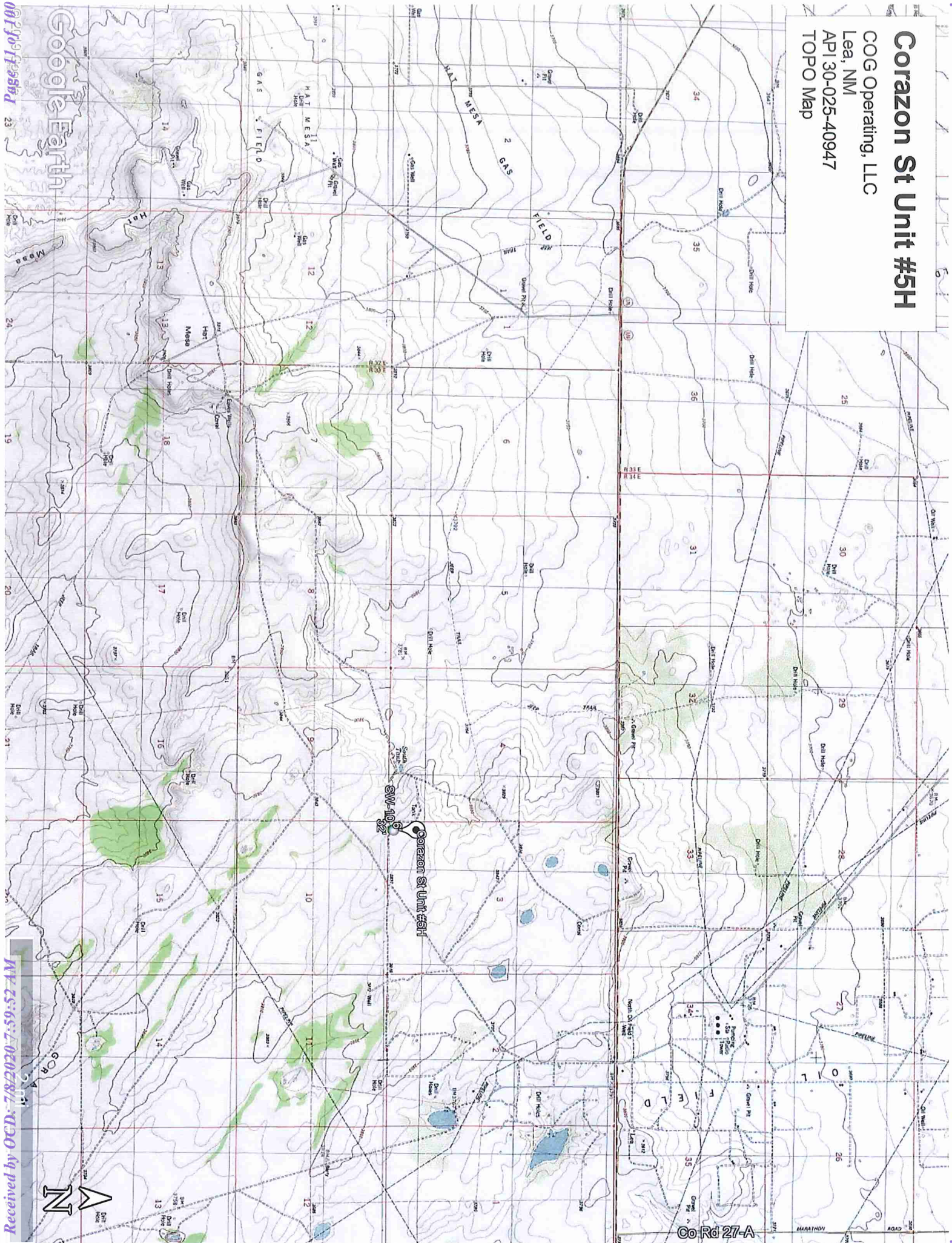
Page 10 of 100
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Received by OCD: 7/8/2020 7:59:52 AM
10 mi

10 mi



COG Operating, LLC
Lea, NM
API 30-025-40947
TOPO Map



Corazon St Unit #5H

COG Operating, LLC
Lea, NM
API 30-025-40947
Locator Map

Google Earth

© 2019 Google

00150-27-384

Corazon St Unit #5H
10
S-6

Hobbs

Leunice



MT 25-622 HHC 87- CDO by pwp/psa
2019



APPENDIX II

REGULATORY CORRESPONDENCE



From: Chris Jones <cjones@talonlpe.com>

Sent: Wednesday, April 8, 2020 1:30 PM

To: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>; Brittany Esparza <besparza@concho.com>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>

Subject: [External] RE: NAB1912955644 CORAZON STATE UNIT #005H @ 30-025-40947

**** External email. Use caution. ****

Yes Ma'am we will get some more horizontal samples and send to the lab.

Chris Jones

Environmental Project Manager

Office: 575.746.8768 x708

Direct: 575.616.4022

Cell: 575.631.6977

Fax: 575.746.8905

Emergency: 866.742.0742

Web: www.talonlpe.com



From: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>

Sent: Wednesday, April 08, 2020 12:23 PM

To: Chris Jones <cjones@talonlpe.com>; Brittany Esparza <besparza@concho.com>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>

Subject: NAB1912955644 CORAZON STATE UNIT #005H @ 30-025-40947

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

NAB1912955644 CORAZON STATE UNIT #005H @ 30-025-40947

Chris,

The OCD has denied the submitted Closure C-141 for incident # nAB1912955644 for the following reasons:

- Samples S10 SW and S11 SW exceed the GRO+DRO limits of 1000 mg/kg given on Table I in 19.15.29.12.
- Horizontal delineation has not been completed. The edges -horizontal definition- of a liquid release must be determined. A visual footprint on the surface is not sufficient or adequate to assess the horizontal extent of the release. Lab data must be provided as evidence of delineation efforts. The values for determination of horizontal impact are derived by either "background" value as determined appropriate to Rule 29, or, for chloride, 600 mg/Kg in soils. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area.

The Denied C-141 can be found in the online image file. Please review and make the required correction prior to resubmitting through the fee portal. If you have any questions or believe this denial is in error, please contact me prior to submitting an additional C-141.

Thanks,

Cristina Eads

Environmental Bureau

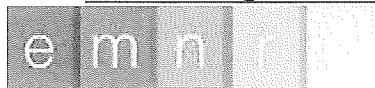
EMNRD – Oil Conservation Division

5200 Oakland Avenue NE, Suite 100

Albuquerque, New Mexico 87113

505.670-5601

email: Cristina.Eads@state.nm.us



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



APPENDIX III

SOIL SURVEY

GROUNDWATER DATA

FEMA FLOOD ZONE

Lea County, New Mexico

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw43
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough, dry, and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough, Dry

Setting

Landform: Playa rims, plains
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 95 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s

Map Unit Description: Kimbrough gravelly loam, dry, 0 to 3 percent slopes---Lea County, New Mexico

Hydrologic Soil Group: D
Ecological site: Very Shallow 12-17" PZ (R077DY049TX)
Hydric soil rating: No

Minor Components

Eunice

Percent of map unit: 10 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: Very Shallow 12-17" PZ (R077DY049TX)
Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent
Landform: Playa rims, plains
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: Very Shallow 12-17" PZ (R077DY049TX)
Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Clay Loam 12-17" PZ (R077DY038TX)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 15, Sep 12, 2018



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

| POD Number | POD Code | Sub-basin | County | Q 6 | Q 4 | Q 1 | Q 2 | Sec | Tw | Rs | X | Y | Distance | DepthWell | DepthWater | Water Column |
|-------------------------------|----------|-----------|--------|-----|-----|-----|-----|-----|-----|----|--------|----------|----------|-----------|------------|--------------|
| CP 00801 POD1 | | CP | LE | 3 | 2 | 1 | 11 | 21S | 33E | | 636555 | 3596549* | 2038 | 200 | | |
| CP 00578 | | CP | LE | | 4 | 3 | 11 | 21S | 33E | | 636674 | 3595445* | 2555 | 165 | 150 | 15 |
| CP 01317 POD1 | | CP | LE | 1 | 3 | 2 | 02 | 21S | 33E | | 636884 | 3598450 | 2839 | 1250 | 1025 | 225 |
| CP 00797 POD1 | | CP | LE | 1 | 2 | 4 | 02 | 21S | 33E | | 637348 | 3597564* | 2898 | 110 | | |
| Average Depth to Water: | | | | | | | | | | | | | | | 587 feet | |
| Minimum Depth: | | | | | | | | | | | | | | | 150 feet | |
| Maximum Depth: | | | | | | | | | | | | | | | 1025 feet | |

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 634538.683 Northing (Y): 3596849.656 Radius: 3000

*UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

| | | | | | | | |
|----------|---------------|------------|-----|-----|------------|--------|---------|
| Well Tag | POD Number | Q64 Q16 Q4 | Sec | Tws | Rng | X | Y |
| | CP 01317 POD1 | 1 | 3 | 2 | 02 21S 33E | 636884 | 3598450 |

x

Driller License: 421

Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date: 05/09/2014

Drill Finish Date: 05/15/2014

Plug Date:

Log File Date: 11/04/2014

PCW Rcv Date: 02/24/2017

Source: Artesian

Pump Type: SUBMER

Pipe Discharge Size: 3

Estimated Yield: 85 GPM

Casing Size: 16.00

Depth Well: 1250 feet

Depth Water: 1025 feet

x

| | | | |
|--------------------------------|------|--------|-------------------------------|
| Water Bearing Stratifications: | Top | Bottom | Description |
| | 1025 | 1048 | Sandstone/Gravel/Conglomerate |
| | 1048 | 1212 | Sandstone/Gravel/Conglomerate |

x

| | | |
|----------------------|-----|--------|
| Casing Perforations: | Top | Bottom |
| | 0 | 1017 |

x

Meter Number: 17852

Meter Make: BLANCETT

Meter Serial Number: 021 604 A573

Meter Multiplier: 100.0000

Number of Dials: 8

Meter Type: Diversion

Unit of Measure: Barrels 42 gal.

Return Flow Percent:

Usage Multiplier:

Reading Frequency: Quarterly

x

Meter Readings (in Acre-Feet)

| Read Date | Year | Mtr Reading | Flag | Rdr | Comment | Mtr Amount Online |
|------------|------|-------------|------|-----|---------|-------------------|
| 12/31/2016 | 2016 | 55655 | A | ap | | 0 |
| 01/31/2017 | 2017 | 70691 | A | ap | | 193.804 |
| 03/01/2017 | 2017 | 77010 | A | ap | | 81.448 |
| 04/01/2017 | 2017 | 77010 | A | ap | | 0 |
| 05/01/2017 | 2017 | 77010 | A | ap | | 0 |
| 06/01/2017 | 2017 | 77010 | A | ap | | 0 |
| 06/30/2017 | 2017 | 130931 | A | ap | | 695.005 |
| 07/31/2017 | 2017 | 155864 | A | ap | | 321.370 |
| 10/31/2017 | 2017 | 214689 | A | ap | | 758.215 |
| 11/30/2017 | 2017 | 238894 | A | ap | | 311.986 |
| 12/29/2017 | 2017 | 266406 | A | ap | | 354.611 |
| 01/31/2018 | 2018 | 294000 | A | ap | | 355.668 |
| 02/28/2018 | 2018 | 316810 | A | ap | | 294.006 |
| 03/30/2018 | 2018 | 341442 | A | ap | | 317.490 |
| 04/30/2018 | 2018 | 353767 | A | ap | | 158.861 |
| 06/01/2018 | 2018 | 383766 | A | ap | | 386.667 |
| 06/29/2018 | 2018 | 397800 | A | ap | | 180.889 |
| 07/31/2018 | 2018 | 429815 | A | ap | | 412.652 |
| 09/01/2018 | 2018 | 458590 | A | ap | | 370.890 |
| 10/01/2018 | 2018 | 482605 | A | ap | | 309.537 |

| | | | | | |
|------------|------|--------|---|----|----------|
| 11/01/2018 | 2018 | 494524 | A | ap | 153.628 |
| 11/30/2018 | 2018 | 532806 | A | ap | 493.429 |
| 03/01/2019 | 2019 | 575813 | A | ap | 554.331 |
| 04/01/2019 | 2019 | 575813 | A | ap | 0 |
| 05/01/2019 | 2019 | 575813 | A | ap | 0 |
| 05/31/2019 | 2019 | 575813 | A | ap | 0 |
| 06/30/2019 | 2019 | 575813 | A | ap | 0 |
| 10/31/2019 | 2019 | 746152 | A | ap | 2195.555 |

| | |
|----------------------|----------|
| x | |
| **YTD Meter Amounts: | |
| Year | Amount |
| 2016 | 0 |
| 2017 | 2716.439 |
| 2018 | 3433.717 |
| 2019 | 2749.886 |

x

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

7/7/20 2:48 PM

POINT OF DIVERSION
SUMMARY

National Flood Hazard Layer FIRMeTte



32°30'18.01"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

| SPECIAL FLOOD HAZARD AREAS | Without Base Flood Elevation (BFE) Zone A, V, AE9 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway |
|----------------------------|--|
|----------------------------|--|

| |
|--|
| 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone X) |
| Future Conditions 1% Annual Chance Flood Hazard (Zone X) |
| Area with Reduced Flood Risk due to Levee. See Notes, Zone X |
| Area with Flood Risk due to Levee (Zone D) |

| OTHER AREAS OF FLOOD HAZARD | NO SCREEN Area of Minimal Flood Hazard (Zone X) Effective LOMRS Area of Undetermined Flood Hazard (Zone X) |
|--------------------------------|---|
| OTHER AREAS GENERAL STRUCTURES | Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall |

| OTHER FEATURES | Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature |
|----------------|--|
|----------------|--|

| MAP PANELS | Digital Data Available No Digital Data Available Unmapped |
|------------|---|
|------------|---|

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/29/2019 at 3:21:11 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



APPENDIX IV

INITIAL C-141

FINAL C-141

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

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

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

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

Release Notification

Responsible Party

| | | | |
|-------------------------|--|------------------------------|----------------|
| Responsible Party | COG Operating, LLC | OGRID | 229137 |
| Contact Name | Jennifer Knowlton | Contact Telephone | (575) 748-1570 |
| Contact email | JKnowlton@concho.com | Incident # (assigned by OCD) | |
| Contact mailing address | 600 West Illinois Avenue, Midland, Texas 79701 | | |

Location of Release Source

Latitude 32.50085 Longitude -103.56786
(NAD 83 in decimal degrees to 5 decimal places)

| | | | |
|-------------------------|--------------------------|----------------------|--------------|
| Site Name | Corazon State Unit #005H | Site Type | Flowline |
| Date Release Discovered | March 30, 2019 | API# (if applicable) | 30-025-40947 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| M | 03 | 21S | 33E | Lea |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

| | | |
|--|--|---|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 2.5 | Volume Recovered (bbls) 2 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 2.5 | Volume Recovered (bbls) 2 |
| | 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

The release was caused by a hole in the flowline. The flowline is being repaired.
The release was on location. A vacuum truck was dispatched to remove all freestanding fluids.
Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

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

| | |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

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>DeAnn Grant</u> Signature: <u></u> email: <u>agrant@concho.com</u> | Title: <u>HSE Administrative Assistant</u> Date: <u>4/1/2019</u> Telephone: <u>(432) 253-4513</u> |
| <u>OCD Only</u> Received by: _____ Date: _____ | |

| | |
|----------------|---------------|
| Incident ID | NAB1912955644 |
| District RP | 1RP-5474 |
| Facility ID | 30-025-40947 |
| Application ID | |

Closure

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


Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Ike Tavarez, P.G.

Title: Senior HSE Supervisor

Signature: 

Date: 7/6/2020

email: itavarez@concho.com

Telephone: 432.701.8630

OCD Only

Received by: Cristina Eads

Date: 7/8/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: 09/10/2020

Printed Name: Cristina Eads

Title: environmental Specialist



APPENDIX V

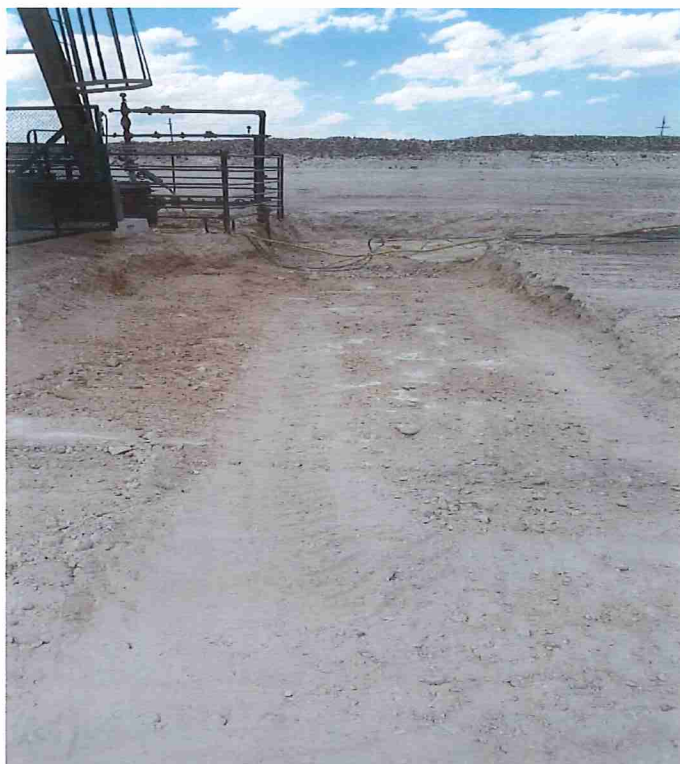
PHOTOGRAPHIC DOCUMENTATION

Spill Event





Excavation





Completed







APPENDIX VI

LABORATORY DATA



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

May 08, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CORAZON ST UNIT #5H

Enclosed are the results of analyses for samples received by the laboratory on 05/07/19 16:05.

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



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/07/2019 | Sampling Date: | 05/06/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-1 0' (H901647-01)

| 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 | 05/07/2019 | ND | 2.01 | 101 | 2.00 | 0.392 | |
| Toluene* | 0.182 | 0.050 | 05/07/2019 | ND | 2.11 | 105 | 2.00 | 1.27 | |
| Ethylbenzene* | 0.443 | 0.050 | 05/07/2019 | ND | 2.01 | 101 | 2.00 | 0.850 | |
| Total Xylenes* | 3.08 | 0.150 | 05/07/2019 | ND | 6.10 | 102 | 6.00 | 0.729 | |
| Total BTEX | 3.70 | 0.300 | 05/07/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 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 | 5840 | 16.0 | 05/08/2019 | 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* | 58.4 | 10.0 | 05/07/2019 | ND | 221 | 110 | 200 | 1.40 | |
| DRO >C10-C28* | 2390 | 10.0 | 05/07/2019 | ND | 227 | 114 | 200 | 1.18 | QM-07 |
| EXT DRO >C28-C36 | 727 | 10.0 | 05/07/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 142 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/07/2019 | Sampling Date: | 05/06/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-2 0' (H901647-02)

| 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 | 05/07/2019 | ND | 2.01 | 101 | 2.00 | 0.392 | |
| Toluene* | <0.050 | 0.050 | 05/07/2019 | ND | 2.11 | 105 | 2.00 | 1.27 | |
| Ethylbenzene* | 0.053 | 0.050 | 05/07/2019 | ND | 2.01 | 101 | 2.00 | 0.850 | |
| Total Xylenes* | 0.364 | 0.150 | 05/07/2019 | ND | 6.10 | 102 | 6.00 | 0.729 | |
| Total BTEX | 0.417 | 0.300 | 05/07/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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 | 24800 | 16.0 | 05/08/2019 | 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 | 05/08/2019 | ND | 221 | 110 | 200 | 1.40 | |
| DRO >C10-C28* | 34.8 | 10.0 | 05/08/2019 | ND | 227 | 114 | 200 | 1.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/08/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/07/2019 | Sampling Date: | 05/06/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-3 0' (H901647-03)

| 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 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.392 | |
| Toluene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.11 | 105 | 2.00 | 1.27 | |
| Ethylbenzene* | 0.081 | 0.050 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.850 | |
| Total Xylenes* | 0.440 | 0.150 | 05/08/2019 | ND | 6.10 | 102 | 6.00 | 0.729 | |
| Total BTEX | 0.521 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 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 | 24800 | 16.0 | 05/08/2019 | 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 | 05/07/2019 | ND | 221 | 110 | 200 | 1.40 | |
| DRO >C10-C28* | 25.6 | 10.0 | 05/07/2019 | ND | 227 | 114 | 200 | 1.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/07/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/07/2019 | Sampling Date: | 05/06/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-4 0' (H901647-04)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | S-04 | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.200 | 0.200 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.392 | |
| Toluene* | 0.842 | 0.200 | 05/08/2019 | ND | 2.11 | 105 | 2.00 | 1.27 | |
| Ethylbenzene* | 4.35 | 0.200 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.850 | |
| Total Xylenes* | 24.0 | 0.600 | 05/08/2019 | ND | 6.10 | 102 | 6.00 | 0.729 | |
| Total BTEX | 29.2 | 1.20 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 147 % 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 | 6160 | 16.0 | 05/08/2019 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 908 | 10.0 | 05/07/2019 | ND | 221 | 110 | 200 | 1.40 | |
| DRO >C10-C28* | 8480 | 10.0 | 05/07/2019 | ND | 227 | 114 | 200 | 1.18 | |
| EXT DRO >C28-C36 | 1330 | 10.0 | 05/07/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 161 % 41-142

Surrogate: 1-Chlorooctadecane 256 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/07/2019 | Sampling Date: | 05/06/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-5 0' (H901647-05)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | S-04 | |
|----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.392 | |
| Toluene* | 0.636 | 0.050 | 05/08/2019 | ND | 2.11 | 105 | 2.00 | 1.27 | |
| Ethylbenzene* | 1.92 | 0.050 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.850 | |
| Total Xylenes* | 11.3 | 0.150 | 05/08/2019 | ND | 6.10 | 102 | 6.00 | 0.729 | |
| Total BTEX | 13.9 | 0.300 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 159 % 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 | 4480 | 16.0 | 05/08/2019 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 384 | 10.0 | 05/07/2019 | ND | 221 | 110 | 200 | 1.40 | |
| DRO >C10-C28* | 5230 | 10.0 | 05/07/2019 | ND | 227 | 114 | 200 | 1.18 | |
| EXT DRO >C28-C36 | 927 | 10.0 | 05/07/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 191 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Page 41 of 100
Received by OCD: 7/8/2020 7:59:52 AM



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/07/2019 | Sampling Date: | 05/06/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-6 0' (H901647-06)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | S-04 | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.200 | 0.200 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.392 | |
| Toluene* | 6.70 | 0.200 | 05/08/2019 | ND | 2.11 | 105 | 2.00 | 1.27 | |
| Ethylbenzene* | 15.8 | 0.200 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.850 | |
| Total Xylenes* | 91.4 | 0.600 | 05/08/2019 | ND | 6.10 | 102 | 6.00 | 0.729 | |
| Total BTEX | 114 | 1.20 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 186 % 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 | 05/08/2019 | 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* | 2990 | 50.0 | 05/07/2019 | ND | 221 | 110 | 200 | 1.40 | |
| DRO >C10-C28* | 23200 | 50.0 | 05/07/2019 | ND | 227 | 114 | 200 | 1.18 | |
| EXT DRO >C28-C36 | 3950 | 50.0 | 05/07/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 259 % 41-142

Surrogate: 1-Chlorooctadecane 537 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/07/2019 | Sampling Date: | 05/06/2019 |
| Reported: | 05/08/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-7 0' (H901647-07)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | S-04 | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.200 | 0.200 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.392 | |
| Toluene* | 8.13 | 0.200 | 05/08/2019 | ND | 2.11 | 105 | 2.00 | 1.27 | |
| Ethylbenzene* | 10.9 | 0.200 | 05/08/2019 | ND | 2.01 | 101 | 2.00 | 0.850 | |
| Total Xylenes* | 63.8 | 0.600 | 05/08/2019 | ND | 6.10 | 102 | 6.00 | 0.729 | |
| Total BTEX | 82.8 | 1.20 | 05/08/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PII) 166 % 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 | 752 | 16.0 | 05/08/2019 | 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* | 2100 | 50.0 | 05/07/2019 | ND | 221 | 110 | 200 | 1.40 | |
| DRO >C10-C28* | 23500 | 50.0 | 05/07/2019 | ND | 227 | 114 | 200 | 1.18 | |
| EXT DRO >C28-C36 | 4520 | 50.0 | 05/07/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 218 % 41-142

Surrogate: 1-Chlorooctadecane 593 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

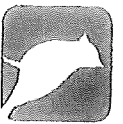
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery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

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | |
|------------------------------------|--|-----------------------|--|
| Company Name: TALON LPE | | P.O. #: 700778.119.01 | |
| Project Manager: CHRIS JONES | | Company: TALON LPE | |
| Address: 408 W. TEXAS AVE | | Attn: C. JONES | |
| City: ARRESIA | | Address: | |
| Phone #: 575-631-6977 | | State: NM Zip: 88210 | |
| Project #: 700778.119.01 | | Project Owner: COG | |
| Project Name: CORAZON ST UNIT # 5H | | City: | |
| Project Location: LEA COUNTY | | State: | |
| Sampler Name: MICHAEL COLLIER | | Phone #: | |
| Fax #: | | Zip: | |

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | TPH | BTEX | TOTAL CHLORIDES |
|----------|-----------------|-------------------|--------------|-------------|------------|------|-----|--------|--------|------------|--------|-------|-----|------|-----------------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | | | | | |
| 4901647 | 1ST ↑ | G | 1 | | | | | | | | 5/6/19 | 11:00 | ✓ | ✓ | ✓ |
| 2 | 5-2 0' CL | | | | | | | | | | | 11:10 | | | |
| 3 | 5-3 0' CL | | | | | | | | | | | 11:20 | | | |
| 4 | 5-4 0' BTEX TPH | | | | | | | | | | | 11:30 | | | |
| 5 | 5-5 0' BTEX TPH | | | | | | | | | | | 11:40 | | | |
| 6 | 5-6 0' BTEX TPH | | | | | | | | | | | 11:50 | | | |
| 7 | 5-7 0' BTEX TPH | | | | | | | | | | | 12:00 | | | |

| | | | |
|---|--------------|-------------------------------------|--------------|
| Relinquished By: <i>Michael Collier</i> | Date: 5-7-19 | Received By: <i>Monica Schaefer</i> | Date: 5-7-19 |
| Time: 16:05 | Time: 16:05 | | |

| | | |
|------------------------------|---|---|
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: (Initials) |
| Sampler - UPS - Bus - Other: | Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> | |
| 575-631-6977 | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

| | |
|--|----------------|
| 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: RUSH | |

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Analytical Report 624019

for
Talon/LPE Co.

Project Manager: Chris Jones

Corazon St 5H

700778.119.01

14-MAY-19

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

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

Xenco-Atlanta (LELAP Lab ID #04176)

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



Table of Contents

| | |
|---|----|
| Cover Page | 1 |
| Cover Letter | 3 |
| Sample ID Cross Reference | 4 |
| Case Narrative | 5 |
| Certificate of Analysis (Detailed Report) | 6 |
| Explanation of Qualifiers (Flags) | 17 |
| SURR_QC_V62 | 18 |
| LCS / LCSD Recoveries | 20 |
| MS / MSD Recoveries | 22 |
| Chain of Custody | 24 |
| Sample Receipt Conformance Report | 25 |



14-MAY-19

Project Manager: **Chris Jones**
Talon/LPE Co.
921 N Bivins St
Amarillo, TX 79107

Reference: XENCO Report No(s): **624019**
Corazon St 5H
Project Address:

Chris Jones:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 624019. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 624019 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Assistant

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Sample Cross Reference 624019



Talon/LPE Co., Amarillo, TX

Corazon St 5H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|----------------|--------|----------------|--------------|---------------|
| S-1 Bottom | S | 05-09-19 09:00 | 6 In | 624019-001 |
| S-2 Bottom | S | 05-09-19 09:05 | 6 In | 624019-002 |
| S-5 Bottom | S | 05-09-19 09:00 | 6 In | 624019-003 |
| S-6 Bottom | S | 05-09-19 09:10 | 6 In | 624019-004 |
| S-8 Side Wall | S | 05-09-19 09:20 | 6 In | 624019-005 |
| S-9 Side Wall | S | 05-09-19 09:15 | 6 In | 624019-006 |
| S-10 Side Wall | S | 05-09-19 09:30 | 6 In | 624019-007 |
| S-11 Side Wall | S | 05-09-19 09:40 | 6 In | 624019-008 |
| S-12 Side Wall | S | 05-09-19 09:50 | 6 In | 624019-009 |



CASE NARRATIVE

Client Name: Talon/LPE Co.

Project Name: Corazon St 5H

Project ID: 700778.119.01
Work Order Number(s): 624019

Report Date: 14-MAY-19
Date Received: 05/13/2019

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3088922 BTEX by EPA 8021B

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

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

Samples affected are: 624019-001,624019-004,624019-003,624019-009,624019-005,624019-008.

Batch: LBA-3088952 Chloride by EPA 300

Lab Sample ID 624019-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 624019-001, -002, -003, -004, -005, -006, -007, -008, -009.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3088961 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 624019-005.



Certificate of Analytical Results

624019

Talon/LPE Co., Amarillo, TX

Corazon St 5H



Sample Id: S-1 Bottom Matrix: Soil Sample Depth: 6 In
 Lab Sample Id: 624019-001 Date Collected: 05.09.19 09.00 Date Received: 05.13.19 10.50
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3088952 Date Prep: 05.13.19 17.00
 Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|-------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 204 | 5.00 | 0.858 | mg/kg | 05.13.19 21:04 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: 1005
 Analyst: ARM % Moist: Tech: ARM
 Seq Number: 3088961 Date Prep: 05.13.19 17.00
 Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 240 | 15.0 | 7.98 | mg/kg | 05.14.19 00:13 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 1750 | 15.0 | 8.10 | mg/kg | 05.14.19 00:13 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 132 | 15.0 | 8.10 | mg/kg | 05.14.19 00:13 | | 1 |
| Total TPH | PHC635 | 2120 | | 7.98 | mg/kg | 05.14.19 00:13 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 117 | 70 - 135 | % | | |
| o-Terphenyl | 127 | 70 - 135 | % | | |

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: SCM % Moist: Tech: SCM
 Seq Number: 3088922 Date Prep: 05.13.19 14.30
 Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|----------|---------|----------|-------|----------------|------|------------|
| Benzene | 71-43-2 | 0.000726 | 0.00199 | 0.000383 | mg/kg | 05.14.19 03:01 | J | 1 |
| Toluene | 108-88-3 | 0.0257 | 0.00199 | 0.000453 | mg/kg | 05.14.19 03:01 | | 1 |
| Ethylbenzene | 100-41-4 | 0.0336 | 0.00199 | 0.000561 | mg/kg | 05.14.19 03:01 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.273 | 0.00398 | 0.00101 | mg/kg | 05.14.19 03:01 | | 1 |
| o-Xylene | 95-47-6 | 0.116 | 0.00199 | 0.000342 | mg/kg | 05.14.19 03:01 | | 1 |
| Total Xylenes | 1330-20-7 | 0.389 | | 0.000342 | mg/kg | 05.14.19 03:01 | | |
| Total BTEX | | 0.449 | | 0.000342 | mg/kg | 05.14.19 03:01 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 105 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 187 | 70 - 130 | % | | ** |



Certificate of Analytical Results

624019



Talon/LPE Co., Amarillo, TX

Corazon St 5H

Sample Id: S-2 Bottom

Matrix: Soil

Sample Depth: 6 In

Lab Sample Id: 624019-002

Date Collected: 05.09.19 09.05

Date Received: 05.13.19 10.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3088952

Date Prep: 05.13.19 17.00

Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|-------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 880 | 5.00 | 0.858 | mg/kg | 05.13.19 21:09 | | 1 |

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3088961

Date Prep: 05.13.19 17.00

Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <7.99 | 15.0 | 7.99 | mg/kg | 05.14.19 00:34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 47.2 | 15.0 | 8.12 | mg/kg | 05.14.19 00:34 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 8.14 | 15.0 | 8.12 | mg/kg | 05.14.19 00:34 | J | 1 |
| Total TPH | PHC635 | 55.3 | | 7.99 | mg/kg | 05.14.19 00:34 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 96 | 70 - 135 | % | | |
| o-Terphenyl | 97 | 70 - 135 | % | | |

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|-----------|---------|----------|-------|----------------|------|------------|
| Benzene | 71-43-2 | <0.000389 | 0.00202 | 0.000389 | mg/kg | 05.14.19 02:42 | U | 1 |
| Toluene | 108-88-3 | <0.000460 | 0.00202 | 0.000460 | mg/kg | 05.14.19 02:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.000570 | 0.00202 | 0.000570 | mg/kg | 05.14.19 02:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00102 | 0.00404 | 0.00102 | mg/kg | 05.14.19 02:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.000348 | 0.00202 | 0.000348 | mg/kg | 05.14.19 02:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000348 | | 0.000348 | mg/kg | 05.14.19 02:42 | U | |
| Total BTEX | | <0.000348 | | 0.000348 | mg/kg | 05.14.19 02:42 | U | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 98 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 123 | 70 - 130 | % | | |



Certificate of Analytical Results

624019

Talon/LPE Co., Amarillo, TX

Corazon St 5H



Sample Id: S-5 Bottom Matrix: Soil Sample Depth: 6 In
 Lab Sample Id: 624019-003 Date Collected: 05.09.19 09.00 Date Received: 05.13.19 10.50
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3088952 Date Prep: 05.13.19 17.00
 Prep seq: 7677763

| Parameter | CAS Number | Result | ML | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 7450 | 50.0 | 8.58 | mg/kg | 05.13.19 21:15 | X | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: 1005
 Analyst: ARM % Moist: Tech: ARM
 Seq Number: 3088961 Date Prep: 05.13.19 17.00
 Prep seq: 7677810

| Parameter | CAS Number | Result | ML | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 1730 | 74.9 | 39.9 | mg/kg | 05.14.19 09:59 | | 5 |
| Diesel Range Organics (DRO) | C10C28DRO | 8790 | 74.9 | 40.6 | mg/kg | 05.14.19 09:59 | | 5 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 839 | 74.9 | 40.6 | mg/kg | 05.14.19 09:59 | | 5 |
| Total TPH | PHC635 | 11400 | | 39.9 | mg/kg | 05.14.19 09:59 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 93 | 70 - 135 | % | | |
| o-Terphenyl | 95 | 70 - 135 | % | | |

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: SCM % Moist: Tech: SCM
 Seq Number: 3088922 Date Prep: 05.13.19 14.30
 Prep seq: 7677773

| Parameter | CAS Number | Result | ML | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|--------|--------|--------|-------|----------------|------|------------|
| Benzene | 71-43-2 | 0.105 | 0.0998 | 0.0192 | mg/kg | 05.14.19 07:06 | | 50 |
| Toluene | 108-88-3 | 0.0928 | 0.0998 | 0.0227 | mg/kg | 05.14.19 07:06 | J | 50 |
| Ethylbenzene | 100-41-4 | 2.61 | 0.0998 | 0.0282 | mg/kg | 05.14.19 07:06 | | 50 |
| m,p-Xylenes | 179601-23-1 | 22.7 | 0.200 | 0.0506 | mg/kg | 05.14.19 07:06 | | 50 |
| o-Xylene | 95-47-6 | 1.99 | 0.0998 | 0.0172 | mg/kg | 05.14.19 07:06 | | 50 |
| Total Xylenes | 1330-20-7 | 24.7 | | 0.0172 | mg/kg | 05.14.19 07:06 | | |
| Total BTEX | | 27.5 | | 0.0172 | mg/kg | 05.14.19 07:06 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 94 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 340 | 70 - 130 | % | | ** |



Certificate of Analytical Results

624019

Talon/LPE Co., Amarillo, TX

Corazon St 5H



Sample Id: S-6 Bottom Matrix: Soil Sample Depth: 6 In
 Lab Sample Id: 624019-004 Date Collected: 05.09.19 09.10 Date Received: 05.13.19 10.50
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3088952 Date Prep: 05.13.19 17.00
 Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 3870 | 24.8 | 4.25 | mg/kg | 05.13.19 21:30 | | 5 |

Analytical Method: TPH by SW8015 Mod Prep Method: 1005
 Analyst: ARM % Moist: Tech: ARM
 Seq Number: 3088961 Date Prep: 05.13.19 17.00
 Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 476 | 15.0 | 7.99 | mg/kg | 05.14.19 01:14 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 3930 | 15.0 | 8.12 | mg/kg | 05.14.19 01:14 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 272 | 15.0 | 8.12 | mg/kg | 05.14.19 01:14 | | 1 |
| Total TPH | PHC635 | 4680 | | 7.99 | mg/kg | 05.14.19 01:14 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 129 | 70 - 135 | % | | |
| o-Terphenyl | 111 | 70 - 135 | % | | |

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: SCM % Moist: Tech: SCM
 Seq Number: 3088922 Date Prep: 05.13.19 14.30
 Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|----------|---------|----------|-------|----------------|------|------------|
| Benzene | 71-43-2 | 0.000562 | 0.00201 | 0.000386 | mg/kg | 05.14.19 04:15 | J | 1 |
| Toluene | 108-88-3 | 0.00126 | 0.00201 | 0.000457 | mg/kg | 05.14.19 04:15 | J | 1 |
| Ethylbenzene | 100-41-4 | 0.0127 | 0.00201 | 0.000567 | mg/kg | 05.14.19 04:15 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.271 | 0.00402 | 0.00102 | mg/kg | 05.14.19 04:15 | | 1 |
| o-Xylene | 95-47-6 | 0.0268 | 0.00201 | 0.000346 | mg/kg | 05.14.19 04:15 | | 1 |
| Total Xylenes | 1330-20-7 | 0.298 | | 0.000346 | mg/kg | 05.14.19 04:15 | | |
| Total BTEX | | 0.312 | | 0.000346 | mg/kg | 05.14.19 04:15 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 97 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 200 | 70 - 130 | % | | ** |



Certificate of Analytical Results

624019

Talon/LPE Co., Amarillo, TX

Corazon St 5H



Sample Id: S-8 Side Wall

Matrix: Soil

Sample Depth: 6 In

Lab Sample Id: 624019-005

Date Collected: 05.09.19 09.20

Date Received: 05.13.19 10.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3088952

Date Prep: 05.13.19 17.00

Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 2750 | 24.9 | 4.27 | mg/kg | 05.13.19 21:35 | | 5 |

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3088961

Date Prep: 05.13.19 17.00

Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 653 | 74.9 | 40.0 | mg/kg | 05.14.19 10:18 | | 5 |
| Diesel Range Organics (DRO) | C10C28DRO | 10400 | 74.9 | 40.6 | mg/kg | 05.14.19 10:18 | | 5 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 1150 | 74.9 | 40.6 | mg/kg | 05.14.19 10:18 | | 5 |
| Total TPH | PHC635 | 12200 | | 40.0 | mg/kg | 05.14.19 10:18 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 127 | 70 - 135 | % | | |
| o-Terphenyl | 176 | 70 - 135 | % | | ** |

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|--------|--------|---------|-------|----------------|------|------------|
| Benzene | 71-43-2 | 0.0907 | 0.0199 | 0.00383 | mg/kg | 05.14.19 06:47 | | 10 |
| Toluene | 108-88-3 | 0.0155 | 0.0199 | 0.00454 | mg/kg | 05.14.19 06:47 | J | 10 |
| Ethylbenzene | 100-41-4 | 0.124 | 0.0199 | 0.00563 | mg/kg | 05.14.19 06:47 | | 10 |
| m,p-Xylenes | 179601-23-1 | 0.981 | 0.0398 | 0.0101 | mg/kg | 05.14.19 06:47 | | 10 |
| o-Xylene | 95-47-6 | 0.570 | 0.0199 | 0.00343 | mg/kg | 05.14.19 06:47 | | 10 |
| Total Xylenes | 1330-20-7 | 1.55 | | 0.00343 | mg/kg | 05.14.19 06:47 | | |
| Total BTEX | | 1.78 | | 0.00343 | mg/kg | 05.14.19 06:47 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 105 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 216 | 70 - 130 | % | | ** |



Certificate of Analytical Results

624019

Talon/LPE Co., Amarillo, TX

Corazon St 5H



Sample Id: S-9 Side Wall

Matrix: Soil

Sample Depth: 6 In

Lab Sample Id: 624019-006

Date Collected: 05.09.19 09.15

Date Received: 05.13.19 10.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3088952

Date Prep: 05.13.19 17.00

Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 3490 | 25.2 | 4.33 | mg/kg | 05.13.19 21:51 | | 5 |

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3088961

Date Prep: 05.13.19 17.00

Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <7.98 | 15.0 | 7.98 | mg/kg | 05.14.19 01:55 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 81.9 | 15.0 | 8.10 | mg/kg | 05.14.19 01:55 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 17.8 | 15.0 | 8.10 | mg/kg | 05.14.19 01:55 | | 1 |
| Total TPH | PHC635 | 99.7 | | 7.98 | mg/kg | 05.14.19 01:55 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 99 | 70 - 135 | % | | |
| o-Terphenyl | 99 | 70 - 135 | % | | |

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|-----------|---------|----------|-------|----------------|------|------------|
| Benzene | 71-43-2 | <0.000385 | 0.00200 | 0.000385 | mg/kg | 05.14.19 04:34 | U | 1 |
| Toluene | 108-88-3 | <0.000456 | 0.00200 | 0.000456 | mg/kg | 05.14.19 04:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.000565 | 0.00200 | 0.000565 | mg/kg | 05.14.19 04:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | 0.00302 | 0.00400 | 0.00101 | mg/kg | 05.14.19 04:34 | J | 1 |
| o-Xylene | 95-47-6 | <0.000344 | 0.00200 | 0.000344 | mg/kg | 05.14.19 04:34 | U | 1 |
| Total Xylenes | 1330-20-7 | 0.00302 | | 0.000344 | mg/kg | 05.14.19 04:34 | | |
| Total BTEX | | 0.00302 | | 0.000344 | mg/kg | 05.14.19 04:34 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 99 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 124 | 70 - 130 | % | | |



Certificate of Analytical Results

624019



Talon/LPE Co., Amarillo, TX

Corazon St 5H

Sample Id: S-10 Side Wall

Matrix: Soil

Sample Depth: 6 In

Lab Sample Id: 624019-007

Date Collected: 05.09.19 09.30

Date Received: 05.13.19 10.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3088952

Date Prep: 05.13.19 17.00

Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 4860 | 49.6 | 8.52 | mg/kg | 05.13.19 21:56 | | 10 |

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3088961

Date Prep: 05.13.19 17.00

Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 13.3 | 15.0 | 7.99 | mg/kg | 05.14.19 02:15 | J | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 2050 | 15.0 | 8.11 | mg/kg | 05.14.19 02:15 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 192 | 15.0 | 8.11 | mg/kg | 05.14.19 02:15 | | 1 |
| Total TPH | PHC635 | 2260 | | 7.99 | mg/kg | 05.14.19 02:15 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 100 | 70 - 135 | % | | |
| o-Terphenyl | 123 | 70 - 135 | % | | |

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|-----------|---------|----------|-------|----------------|------|------------|
| Benzene | 71-43-2 | <0.000388 | 0.00202 | 0.000388 | mg/kg | 05.14.19 04:53 | U | 1 |
| Toluene | 108-88-3 | <0.000459 | 0.00202 | 0.000459 | mg/kg | 05.14.19 04:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.000569 | 0.00202 | 0.000569 | mg/kg | 05.14.19 04:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00102 | 0.00403 | 0.00102 | mg/kg | 05.14.19 04:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.000347 | 0.00202 | 0.000347 | mg/kg | 05.14.19 04:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000347 | | 0.000347 | mg/kg | 05.14.19 04:53 | U | |
| Total BTEX | | <0.000347 | | 0.000347 | mg/kg | 05.14.19 04:53 | U | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 98 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 125 | 70 - 130 | % | | |



Certificate of Analytical Results

624019



Talon/LPE Co., Amarillo, TX

Corazon St 5H

Sample Id: S-11 Side Wall Matrix: Soil Sample Depth: 6 In
 Lab Sample Id: 624019-008 Date Collected: 05.09.19 09.40 Date Received: 05.13.19 10.50
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3088952 Date Prep: 05.13.19 17.00
 Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|-------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 76.2 | 5.00 | 0.858 | mg/kg | 05.13.19 22:01 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: 1005
 Analyst: ARM % Moist: Tech: ARM
 Seq Number: 3088961 Date Prep: 05.13.19 17.00
 Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 606 | 75.0 | 40.0 | mg/kg | 05.14.19 10:38 | | 5 |
| Diesel Range Organics (DRO) | C10C28DRO | 7260 | 75.0 | 40.6 | mg/kg | 05.14.19 10:38 | | 5 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 738 | 75.0 | 40.6 | mg/kg | 05.14.19 10:38 | | 5 |
| Total TPH | PHC635 | 8600 | | 40.0 | mg/kg | 05.14.19 10:38 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 127 | 70 - 135 | % | | |
| o-Terphenyl | 94 | 70 - 135 | % | | |

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: SCM % Moist: Tech: SCM
 Seq Number: 3088922 Date Prep: 05.13.19 14.30
 Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|-----------|---------|----------|-------|----------------|------|------------|
| Benzene | 71-43-2 | <0.000382 | 0.00198 | 0.000382 | mg/kg | 05.14.19 05:12 | U | 1 |
| Toluene | 108-88-3 | 0.0108 | 0.00198 | 0.000452 | mg/kg | 05.14.19 05:12 | | 1 |
| Ethylbenzene | 100-41-4 | 0.0614 | 0.00198 | 0.000560 | mg/kg | 05.14.19 05:12 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.239 | 0.00397 | 0.00101 | mg/kg | 05.14.19 05:12 | | 1 |
| o-Xylene | 95-47-6 | 0.113 | 0.00198 | 0.000342 | mg/kg | 05.14.19 05:12 | | 1 |
| Total Xylenes | 1330-20-7 | 0.352 | | 0.000342 | mg/kg | 05.14.19 05:12 | | |
| Total BTEX | | 0.424 | | 0.000342 | mg/kg | 05.14.19 05:12 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 86 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 210 | 70 - 130 | % | | ** |



Certificate of Analytical Results

624019



Talon/LPE Co., Amarillo, TX

Corazon St 5H

Sample Id: S-12 Side Wall Matrix: Soil Sample Depth: 6 In
 Lab Sample Id: 624019-009 Date Collected: 05.09.19 09.50 Date Received: 05.13.19 10.50
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3088952 Date Prep: 05.13.19 17.00
 Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | 4570 | 25.1 | 4.31 | mg/kg | 05.13.19 22:06 | | 5 |

Analytical Method: TPH by SW8015 Mod Prep Method: 1005
 Analyst: ARM % Moist: Tech: ARM
 Seq Number: 3088961 Date Prep: 05.13.19 17.00
 Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 221 | 15.0 | 7.99 | mg/kg | 05.14.19 02:55 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 4980 | 15.0 | 8.12 | mg/kg | 05.14.19 02:55 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 290 | 15.0 | 8.12 | mg/kg | 05.14.19 02:55 | | 1 |
| Total TPH | PHC635 | 5490 | | 7.99 | mg/kg | 05.14.19 02:55 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 122 | 70 - 135 | % | | |
| o-Terphenyl | 102 | 70 - 135 | % | | |

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: SCM % Moist: Tech: SCM
 Seq Number: 3088922 Date Prep: 05.13.19 14.30
 Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|-----------|---------|----------|-------|----------------|------|------------|
| Benzene | 71-43-2 | <0.000387 | 0.00201 | 0.000387 | mg/kg | 05.14.19 05:31 | U | 1 |
| Toluene | 108-88-3 | <0.000458 | 0.00201 | 0.000458 | mg/kg | 05.14.19 05:31 | U | 1 |
| Ethylbenzene | 100-41-4 | 0.00887 | 0.00201 | 0.000568 | mg/kg | 05.14.19 05:31 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.0479 | 0.00402 | 0.00102 | mg/kg | 05.14.19 05:31 | | 1 |
| o-Xylene | 95-47-6 | 0.00582 | 0.00201 | 0.000346 | mg/kg | 05.14.19 05:31 | | 1 |
| Total Xylenes | 1330-20-7 | 0.0537 | | 0.000346 | mg/kg | 05.14.19 05:31 | | |
| Total BTEX | | 0.0626 | | 0.000346 | mg/kg | 05.14.19 05:31 | | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 90 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 168 | 70 - 130 | % | | ** |



Certificate of Analytical Results

624019



Talon/LPE Co., Amarillo, TX

Corazon St 5H

Sample Id: 7677763-1-BLK Matrix: Solid Sample Depth:
Lab Sample Id: 7677763-1-BLK Date Collected: Date Received:
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Analyst: CHE % Moist: Tech: CHE
Seq Number: 3088952 Date Prep: 05.13.19 17.00
Prep seq: 7677763

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|-----------|------------|--------|------|-------|-------|----------------|------|------------|
| Chloride | 16887-00-6 | <0.858 | 5.00 | 0.858 | mg/kg | 05.13.19 19:47 | U | 1 |

Sample Id: 7677773-1-BLK Matrix: Solid Sample Depth:
Lab Sample Id: 7677773-1-BLK Date Collected: Date Received:
Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
Analyst: SCM % Moist: Tech: SCM
Seq Number: 3088922 Date Prep: 05.13.19 14.30
Prep seq: 7677773

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|---------------|-------------|-----------|---------|----------|-------|----------------|------|------------|
| Benzene | 71-43-2 | <0.000383 | 0.00199 | 0.000383 | mg/kg | 05.13.19 23:51 | U | 1 |
| Toluene | 108-88-3 | <0.000453 | 0.00199 | 0.000453 | mg/kg | 05.13.19 23:51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.000561 | 0.00199 | 0.000561 | mg/kg | 05.13.19 23:51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00101 | 0.00398 | 0.00101 | mg/kg | 05.13.19 23:51 | U | 1 |
| o-Xylene | 95-47-6 | <0.000342 | 0.00199 | 0.000342 | mg/kg | 05.13.19 23:51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000342 | | 0.000342 | mg/kg | 05.13.19 23:51 | U | |
| Total BTEX | | <0.000342 | | 0.000342 | mg/kg | 05.13.19 23:51 | U | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------|-------|---------------|------|
| 1,4-Difluorobenzene | 101 | 70 - 130 | % | | |
| 4-Bromofluorobenzene | 107 | 70 - 130 | % | | |



Certificate of Analytical Results
624019



Talon/LPE Co., Amarillo, TX
Corazon St 5H

Sample Id: 7677810-1-BLK Matrix: Solid Sample Depth:
Lab Sample Id: 7677810-1-BLK Date Collected: Date Received:
Analytical Method: TPH by SW8015 Mod Prep Method: 1005
Analyst: ARM % Moist: Tech: ARM
Seq Number: 3088961 Date Prep: 05.13.19 17.00
Prep seq: 7677810

| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
|------------------------------------|------------|--------|------|------|-------|----------------|------|------------|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <8.00 | 15.0 | 8.00 | mg/kg | 05.13.19 19:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <8.13 | 15.0 | 8.13 | mg/kg | 05.13.19 19:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <8.13 | 15.0 | 8.13 | mg/kg | 05.13.19 19:08 | U | 1 |
| Total TPH | PHC635 | <8.00 | | 8.00 | mg/kg | 05.13.19 19:08 | U | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------|------------|----------|-------|---------------|------|
| 1-Chlorooctane | 99 | 70 - 135 | % | | |
| o-Terphenyl | 101 | 70 - 135 | % | | |



Flagging Criteria



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

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



Form 2 - Surrogate Recoveries

Project Name: Corazon St 5H

Work Orders : 624019,

Project ID: 700778.119.01

Lab Batch #: 3088922

Sample: 7677773-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/13/19 22:18

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0276 | 0.0300 | 92 | 70-130 | |
| 4-Bromofluorobenzene | 0.0330 | 0.0300 | 110 | 70-130 | |

Lab Batch #: 3088922

Sample: 7677773-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/13/19 22:37

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0280 | 0.0300 | 93 | 70-130 | |
| 4-Bromofluorobenzene | 0.0325 | 0.0300 | 108 | 70-130 | |

Lab Batch #: 3088922

Sample: 624018-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/13/19 22:56

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0281 | 0.0300 | 94 | 70-130 | |
| 4-Bromofluorobenzene | 0.0342 | 0.0300 | 114 | 70-130 | |

Lab Batch #: 3088922

Sample: 624018-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/13/19 23:15

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0284 | 0.0300 | 95 | 70-130 | |
| 4-Bromofluorobenzene | 0.0337 | 0.0300 | 112 | 70-130 | |

Lab Batch #: 3088922

Sample: 7677773-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/13/19 23:51

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0320 | 0.0300 | 107 | 70-130 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Corazon St 5H

Work Orders : 624019,

Project ID: 700778.119.01

Lab Batch #: 3088961

Sample: 7677810-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/13/19 19:08

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 99.2 | 100 | 99 | 70-135 | |
| o-Terphenyl | 50.7 | 50.0 | 101 | 70-135 | |

Lab Batch #: 3088961

Sample: 7677810-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/13/19 19:28

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 122 | 100 | 122 | 70-135 | |
| o-Terphenyl | 64.2 | 50.0 | 128 | 70-135 | |

Lab Batch #: 3088961

Sample: 7677810-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/13/19 19:48

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 127 | 100 | 127 | 70-135 | |
| o-Terphenyl | 62.6 | 50.0 | 125 | 70-135 | |

Lab Batch #: 3088961

Sample: 624018-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/13/19 20:29

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 122 | 100 | 122 | 70-135 | |
| o-Terphenyl | 56.8 | 50.0 | 114 | 70-135 | |

Lab Batch #: 3088961

Sample: 624018-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/13/19 20:49

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 121 | 99.8 | 121 | 70-135 | |
| o-Terphenyl | 63.7 | 49.9 | 128 | 70-135 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Corazon St 5H

Work Order #: 624019

Project ID: 700778.119.01

Analyst: SCM

Date Prepared: 05/13/2019

Date Analyzed: 05/13/2019

Lab Batch ID: 3088922

Sample: 767773-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B | | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-------------------|--|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | | |
| Benzene | | <0.000386 | 0.100 | 0.102 | 102 | 0.0996 | 0.103 | 103 | 1 | 70-130 | 35 | |
| Toluene | | <0.000457 | 0.100 | 0.102 | 102 | 0.0996 | 0.100 | 100 | 2 | 70-130 | 35 | |
| Ethylbenzene | | <0.000566 | 0.100 | 0.113 | 113 | 0.0996 | 0.110 | 110 | 3 | 70-130 | 35 | |
| m,p-Xylenes | | <0.00102 | 0.200 | 0.235 | 118 | 0.199 | 0.230 | 116 | 2 | 70-130 | 35 | |
| o-Xylene | | <0.000345 | 0.100 | 0.115 | 115 | 0.0996 | 0.113 | 113 | 2 | 70-130 | 35 | |

Analyst: CHE

Date Prepared: 05/13/2019

Date Analyzed: 05/13/2019

Lab Batch ID: 3088952

Sample: 767763-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| Chloride by EPA 300 | | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---------------------|--|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | | |
| Chloride | | <0.858 | 250 | 259 | 104 | 250 | 260 | 104 | 0 | 90-110 | 20 | |

Relative Percent Difference RPD = $200 * (C - F) / (C + F)$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes

Version: 1.0



BS / BSD Recoveries



Project Name: Corazon St 5H

Work Order #: 624019
Analyst: ARM
Lab Batch ID: 3088961
Units: mg/kg
Date Prepared: 05/13/2019
Sample: 7677810-1-BKS
Batch #: 1
Project ID: 700778.119.01
Date Analyzed: 05/13/2019
Matrix: Solid

| BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
|---|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| TPH by SW8015 Mod | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | | | | | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | <8.00 | 1000 | 1010 | 101 | 1000 | 1010 | 101 | 0 | 70-135 | 20 | |
| Diesel Range Organics (DRO) | <8.13 | 1000 | 1020 | 102 | 1000 | 1050 | 105 | 3 | 70-135 | 20 | |

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Version: 1.0%



Form 3 - MS / MSD Recoveries



Project Name: Corazon St 5H

Work Order #: 624019
Lab Batch ID: 3088922
Date Analyzed: 05/13/2019
Reporting Units: mg/kg

Project ID: 700778.119.01
QC- Sample ID: 624018-001 S
Date Prepared: 05/13/2019
Batch #: 1
Matrix: Soil
Analyst: SCM

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-------------------------------|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| Benzene | <0.000384 | 0.0998 | 0.0940 | 94 | 0.101 | 0.0980 | 97 | 4 | 70-130 | 35 | |
| Toluene | <0.000455 | 0.0998 | 0.0919 | 92 | 0.101 | 0.0952 | 94 | 4 | 70-130 | 35 | |
| Ethylbenzene | <0.000564 | 0.0998 | 0.0970 | 97 | 0.101 | 0.102 | 101 | 5 | 70-130 | 35 | |
| m,p-Xylenes | <0.00101 | 0.200 | 0.202 | 101 | 0.201 | 0.212 | 105 | 5 | 70-130 | 35 | |
| o-Xylene | <0.000344 | 0.0998 | 0.100 | 100 | 0.101 | 0.105 | 104 | 5 | 70-130 | 35 | |

Lab Batch ID: 3088952
Date Analyzed: 05/13/2019
Reporting Units: mg/kg

QC- Sample ID: 624018-001 S
Date Prepared: 05/13/2019
Batch #: 1
Matrix: Soil
Analyst: CHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Chloride by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---------------------------------|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| Chloride | 9.45 | 253 | 272 | 104 | 253 | 271 | 103 | 0 | 90-110 | 20 | |

Lab Batch ID: 3088952
Date Analyzed: 05/13/2019
Reporting Units: mg/kg

QC- Sample ID: 624019-003 S
Date Prepared: 05/13/2019
Batch #: 1
Matrix: Soil
Analyst: CHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Chloride by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---------------------------------|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| Chloride | 7450 | 250 | 7530 | 32 | 250 | 7530 | 32 | 0 | 90-110 | 20 | X |

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times [(C-F)/(C+F)]$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Corazon St 5H

Work Order #: 624019

Project ID: 700778.119.01

Lab Batch ID: 3088961

QC- Sample ID: 624018-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/13/2019

Date Prepared: 05/13/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-----------------------------------|-----------------------------------|-----------------------|--------------------------------|-------------------------------|-----------------------|--|-----------------------------|----------|-------------------------|---------------------------|------|
| Gasoline Range Hydrocarbons (GRO) | 11.3 | 1000 | 1010 | 100 | 998 | 1020 | 101 | 1 | 70-135 | 20 | |
| Diesel Range Organics (DRO) | <8.13 | 1000 | 1020 | 102 | 998 | 1010 | 101 | 1 | 70-135 | 20 | |

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times [(C-F)/(C+F)]$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Chain of Custody

Work Order No. 1244019

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

www.xenoco.com Page 1 of 1

| | | | |
|------------------|------------------------------|-------------------------|-------------------------------------|
| Project Manager: | CHRIS JONES | Bill to: (if different) | |
| Company Name: | Talon / CPE | Company Name: | |
| Address: | 408 W. Texas Ave. | Address: | |
| City, State ZIP: | Artesia, NM 88210 | City, State ZIP: | |
| Phone: | 575-616-4022 or 575-746-8905 | Email: | CJONES@TALONCPE.COM |
| Project Name: | Corazon St 5th | Turn Around | |
| Project Number: | 700718.119.01 | Routine | <input type="checkbox"/> |
| P.O. Number: | 700718.119.01 | Rush: | <input checked="" type="checkbox"/> |
| Sampler's Name: | MICHAEL COLLIER | Due Date: | |

| | | | | | |
|-----------------------|---|--------------------|---|----------|---|
| SAMPLE RECEIPT | | Temp Blank: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Temperature (°C): | 0.5104 | Thermometer ID: | 70-1 | | |
| Received In tact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: | 0.1 | | |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Total Containers: | | | |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | BTEX | TPH | TOTAL CHLORIDES | ANALYSIS REQUEST | Work Order Notes |
|-----------------------|--------|--------------|--------------|-------|----------------------|------|-----|-----------------|------------------|------------------|
| S-1 Bottom | soil | 5/9/19 | 9:00am | 6" | 1 | ✓ | ✓ | ✓ | | |
| S-2 Bottom | | 5/9/19 | 9:05am | | | ✓ | ✓ | ✓ | | |
| S-5 Bottom | | 5/10/19 | 9:00am | | | ✓ | ✓ | ✓ | | |
| S-1p Bottom | | 5/10/19 | 9:10am | | | ✓ | ✓ | ✓ | | |
| S-8 Side Wall | | 5/10/19 | 9:20am | | | ✓ | ✓ | ✓ | | |
| S-9 Side Wall | | 5/10/19 | 9:15am | | | ✓ | ✓ | ✓ | | |
| S-10 Side Wall | | 5/10/19 | 9:30am | | | ✓ | ✓ | ✓ | | |
| S-11 Side Wall | | 5/10/19 | 9:14am | | | ✓ | ✓ | ✓ | | |
| S-12 Side Wall | | 5/10/19 | 9:50am | | | ✓ | ✓ | ✓ | | |

| | | | | | |
|--|--------------------------|--|---|--------------------------|-----------|
| Total 200.7 / 6010 200.8 / 6020: | | 8RCRA 13PPM Texas 11 | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO2 Na Sr Ti Sn U V Zn | | |
| Circle Method(s) and Metal(s) to be analyzed | | TCLP / SPLP 6010. 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | 1637 / 245.1 / 7470 / 7471 : Hg | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| 1 MCL BL | 5/10/19 15:10 | 2 | 5/13/19 | 1850 | |
| 3 | | 4 | | | |
| 5 | | 6 | | | |



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Talon/LPE Co.

Date/ Time Received: 05/13/2019 10:50:00 AM

Work Order #: 624019

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

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

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 05/13/2019
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 05/13/2019
Jessica Kramer



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

May 23, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CORAZON ST UNIT #5H

Enclosed are the results of analyses for samples received by the laboratory on 05/22/19 14:40.

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



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 05/22/2019
Reported: 05/23/2019
Project Name: CORAZON ST UNIT #5H
Project Number: 700778.119.01
Project Location: COG - LEA CO NM

Sampling Date: 05/21/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-5 A 1' (H901844-01)

| BTEX 8021B | | mg/kg | | Analyzed By: ms | | | | S-04 | |
|----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.200 | 0.200 | 05/23/2019 | ND | 2.04 | 102 | 2.00 | 6.05 | |
| Toluene* | 0.763 | 0.200 | 05/23/2019 | ND | 2.20 | 110 | 2.00 | 5.30 | |
| Ethylbenzene* | 8.07 | 0.200 | 05/23/2019 | ND | 2.11 | 105 | 2.00 | 5.00 | QM-07 |
| Total Xylenes* | 36.2 | 0.600 | 05/23/2019 | ND | 6.36 | 106 | 6.00 | 4.81 | QM-07 |
| Total BTEX | 45.1 | 1.20 | 05/23/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 150 % 73.3-129

| 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* | 1490 | 100 | 05/23/2019 | ND | 185 | 92.6 | 200 | 1.14 | QM-07 |
| DRO >C10-C28* | 10500 | 100 | 05/23/2019 | ND | 224 | 112 | 200 | 8.14 | QM-07 |
| EXT DRO >C28-C36 | 2030 | 100 | 05/23/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 200 % 41-142

Surrogate: 1-Chlorooctadecane 365 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/22/2019 | Sampling Date: | 05/21/2019 |
| Reported: | 05/23/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-6 A 1' (H901844-02)

| 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 | 05/23/2019 | ND | 2.04 | 102 | 2.00 | 6.05 | |
| Toluene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.20 | 110 | 2.00 | 5.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.11 | 105 | 2.00 | 5.00 | |
| Total Xylenes* | 0.246 | 0.150 | 05/23/2019 | ND | 6.36 | 106 | 6.00 | 4.81 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 94.8 % 73.3-129

| 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 | 05/22/2019 | ND | 185 | 92.6 | 200 | 1.14 | |
| DRO >C10-C28* | 493 | 10.0 | 05/22/2019 | ND | 224 | 112 | 200 | 8.14 | |
| EXT DRO >C28-C36 | 118 | 10.0 | 05/22/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/22/2019 | Sampling Date: | 05/21/2019 |
| Reported: | 05/23/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-7 A 1' (H901844-03)

| 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 | 05/23/2019 | ND | 2.04 | 102 | 2.00 | 6.05 | |
| Toluene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.20 | 110 | 2.00 | 5.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.11 | 105 | 2.00 | 5.00 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2019 | ND | 6.36 | 106 | 6.00 | 4.81 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 93.5 % 73.3-129

| 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 | 05/22/2019 | ND | 185 | 92.6 | 200 | 1.14 | |
| DRO >C10-C28* | 364 | 10.0 | 05/22/2019 | ND | 224 | 112 | 200 | 8.14 | |
| EXT DRO >C28-C36 | 83.1 | 10.0 | 05/22/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/22/2019 | Sampling Date: | 05/21/2019 |
| Reported: | 05/23/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-8 A 1' (H901844-04)

| 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 | 05/23/2019 | ND | 2.04 | 102 | 2.00 | 6.05 | |
| Toluene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.20 | 110 | 2.00 | 5.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.11 | 105 | 2.00 | 5.00 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2019 | ND | 6.36 | 106 | 6.00 | 4.81 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 95.3 % 73.3-129

| 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 | 05/22/2019 | ND | 185 | 92.6 | 200 | 1.14 | |
| DRO >C10-C28* | 52.1 | 10.0 | 05/22/2019 | ND | 224 | 112 | 200 | 8.14 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/22/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/22/2019 | Sampling Date: | 05/21/2019 |
| Reported: | 05/23/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S11 A 1' (H901844-05)

| 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 | 05/23/2019 | ND | 2.04 | 102 | 2.00 | 6.05 | |
| Toluene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.20 | 110 | 2.00 | 5.30 | |
| Ethylbenzene* | 0.123 | 0.050 | 05/23/2019 | ND | 2.11 | 105 | 2.00 | 5.00 | |
| Total Xylenes* | 0.743 | 0.150 | 05/23/2019 | ND | 6.36 | 106 | 6.00 | 4.81 | |
| Total BTEx | 0.866 | 0.300 | 05/23/2019 | ND | | | | | |

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

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 31.0 | 10.0 | 05/22/2019 | ND | 185 | 92.6 | 200 | 1.14 | |
| DRO >C10-C28* | 1570 | 10.0 | 05/22/2019 | ND | 224 | 112 | 200 | 8.14 | |
| EXT DRO >C28-C36 | 457 | 10.0 | 05/22/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 144 % 37.6-147

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/22/2019 | Sampling Date: | 05/21/2019 |
| Reported: | 05/23/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-12 A 1' (H901844-06)

| 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 | 05/23/2019 | ND | 2.04 | 102 | 2.00 | 6.05 | |
| Toluene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.20 | 110 | 2.00 | 5.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.11 | 105 | 2.00 | 5.00 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2019 | ND | 6.36 | 106 | 6.00 | 4.81 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 94.4 % 73.3-129

| 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 | 05/22/2019 | ND | 185 | 92.6 | 200 | 1.14 | |
| DRO >C10-C28* | 19.1 | 10.0 | 05/22/2019 | ND | 224 | 112 | 200 | 8.14 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/22/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.8 % 37.6-147

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/22/2019 | Sampling Date: | 05/21/2019 |
| Reported: | 05/23/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-1 A 1' (H901844-07)

| 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 | 05/23/2019 | ND | 2.04 | 102 | 2.00 | 6.05 | |
| Toluene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.20 | 110 | 2.00 | 5.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.11 | 105 | 2.00 | 5.00 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2019 | ND | 6.36 | 106 | 6.00 | 4.81 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 98.0 % 73.3-129

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | S-04 |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 05/22/2019 | ND | 185 | 92.6 | 200 | 1.14 | | |
| DRO >C10-C28* | 2210 | 10.0 | 05/22/2019 | ND | 224 | 112 | 200 | 8.14 | | |
| EXT DRO >C28-C36 | 601 | 10.0 | 05/22/2019 | ND | | | | | | |

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 159 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/22/2019 | Sampling Date: | 05/21/2019 |
| Reported: | 05/23/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-10 A 1' (H901844-08)

| 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 | 05/23/2019 | ND | 2.04 | 102 | 2.00 | 6.05 | |
| Toluene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.20 | 110 | 2.00 | 5.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2019 | ND | 2.11 | 105 | 2.00 | 5.00 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2019 | ND | 6.36 | 106 | 6.00 | 4.81 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 95.0 % 73.3-129

| 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 | 05/22/2019 | ND | 185 | 92.6 | 200 | 1.14 | |
| DRO >C10-C28* | 409 | 10.0 | 05/22/2019 | ND | 224 | 112 | 200 | 8.14 | |
| EXT DRO >C28-C36 | 140 | 10.0 | 05/22/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Page 79 of 100

Received by OCD: 7/8/2020 7:59:52 AM



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Notes and Definitions

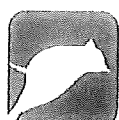
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

8/11/2010

ANALYSIS REQUEST

| | | |
|--------------------------------------|------------------------------------|------------------------------|
| Company Name: TALON LCE | | P.O. #: 760178.119.01 |
| Project Manager: CHARIS TONES | | Company: CONCHO |
| Address: 408. W. TEXAS | | Attn: LUKE TRUAREZ |
| City: ARRESIA | State: NM Zip: 88210 | Address: |
| Phone #: 575-431-6977 | Fax #: | City: |
| Project #: 760178.119.01 | Project Owner: CONCHO LCE | State: |
| Project Name: CONAZON 5H | | Zip: |
| Project Location: LEA COUNTY | | Phone #: |
| Sampler Name: MICHAEL COLLIER | | Fax #: |

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | DATE | TIME | TPH | BTEx | | | | | | |
|----------|-------------|-------------------|--------------|--------|--|--|--|--|----------|----------|---------|------|-----|------|--|--|--|--|--|--|
| H901844 | 1 | S-5A | 1 | | | | | | | | 5/21/10 | 2:00 | ✓ | ✓ | | | | | | |
| | 2 | S-6A | 1 | | | | | | | | | | | | | | | | | |
| | 3 | S-7A | 1 | | | | | | | | | | | | | | | | | |
| | 4 | S-8A | 1 | | | | | | | | | | | | | | | | | |
| | 5 | S-11A | 1 | | | | | | | | | | | | | | | | | |
| | 6 | S-12A | 1 | | | | | | | | | | | | | | | | | |
| | 7 | S-1A | 1 | | | | | | | | | | | | | | | | | |
| | 8 | S-10A | 1 | | | | | | | | | | | | | | | | | |

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| | | |
|-------------------------------------|----------------------|---------------------------------|
| Relinquished By: [Signature] | Date: 8-22-10 | Received By: [Signature] |
| Time: 14:40 | | |
| Date: 8-22-10 | | |
| Time: 14:40 | | |

| | | |
|------------------------------|---|------------------------|
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: (Initials) |
| Sampler - UPS - Bus - Other: | Cool <input type="checkbox"/> Intact <input type="checkbox"/> | |
| 3.36 | Yes <input type="checkbox"/> No <input type="checkbox"/> | 72 |

| | |
|--|----------------|
| 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:

RUSH

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

May 30, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CORAZON ST UNIT #5H

Enclosed are the results of analyses for samples received by the laboratory on 05/29/19 13:10.

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



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

Analytical Results For:

TALON LPE
 CHRIS JONES
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/29/2019 | Sampling Date: | 05/29/2019 |
| Reported: | 05/30/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-1 B 2' (H901886-01)

| 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 | 05/30/2019 | ND | 1.84 | 92.1 | 2.00 | 0.0184 | |
| Toluene* | <0.050 | 0.050 | 05/30/2019 | ND | 1.99 | 99.4 | 2.00 | 0.178 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/30/2019 | ND | 1.89 | 94.5 | 2.00 | 0.213 | |
| Total Xylenes* | <0.150 | 0.150 | 05/30/2019 | ND | 5.72 | 95.3 | 6.00 | 0.0278 | |
| Total BTEX | <0.300 | 0.300 | 05/30/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 92.2 % 73.3-129

| 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 | 05/29/2019 | ND | 200 | 99.8 | 200 | 0.718 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/29/2019 | ND | 208 | 104 | 200 | 4.22 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/29/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 83 of 100
Received by OCD: 7/8/2020 7:59:52 AM



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 05/29/2019 | Sampling Date: | 05/29/2019 |
| Reported: | 05/30/2019 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S-5 B 2' (H901886-02)

| 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 | 05/30/2019 | ND | 1.84 | 92.1 | 2.00 | 0.0184 | |
| Toluene* | <0.050 | 0.050 | 05/30/2019 | ND | 1.99 | 99.4 | 2.00 | 0.178 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/30/2019 | ND | 1.89 | 94.5 | 2.00 | 0.213 | |
| Total Xylenes* | <0.150 | 0.150 | 05/30/2019 | ND | 5.72 | 95.3 | 6.00 | 0.0278 | |
| Total BTX | <0.300 | 0.300 | 05/30/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 94.3 % 73.3-129

| 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 | 05/29/2019 | ND | 200 | 99.8 | 200 | 0.718 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/29/2019 | ND | 208 | 104 | 200 | 4.22 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/29/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 05/29/2019
Reported: 05/30/2019
Project Name: CORAZON ST UNIT #5H
Project Number: 700778.119.01
Project Location: COG - LEA CO NM

Sampling Date: 05/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-11 B 2' (H901886-03)

| 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 | 05/30/2019 | ND | 1.84 | 92.1 | 2.00 | 0.0184 | |
| Toluene* | <0.050 | 0.050 | 05/30/2019 | ND | 1.99 | 99.4 | 2.00 | 0.178 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/30/2019 | ND | 1.89 | 94.5 | 2.00 | 0.213 | |
| Total Xylenes* | <0.150 | 0.150 | 05/30/2019 | ND | 5.72 | 95.3 | 6.00 | 0.0278 | |
| Total BTEX | <0.300 | 0.300 | 05/30/2019 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 92.0 % 73.3-129

| 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 | 05/30/2019 | ND | 200 | 99.8 | 200 | 0.718 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/30/2019 | ND | 208 | 104 | 200 | 4.22 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/30/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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

Notes and Definitions

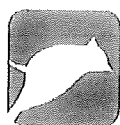
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based 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

Cardinal Laboratories

*=Accredited Analyte

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Celest 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]



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

January 22, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CORAZON ST UNIT #5H

Enclosed are the results of analyses for samples received by the laboratory on 01/20/20 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/ga/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



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 01/20/2020 | Sampling Date: | 01/16/2020 |
| Reported: | 01/22/2020 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S - 3 0.5' (H000193-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4880 | 16.0 | 01/22/2020 | ND | 432 | 108 | 400 | 0.00 | |

Sample ID: S - 3 1' (H000193-02)

| 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 | 01/22/2020 | ND | 432 | 108 | 400 | 0.00 | |

Sample ID: S - 3 2' (H000193-03)

| 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 | 01/22/2020 | ND | 432 | 108 | 400 | 0.00 | |

Sample ID: S - 4 0' (H000193-04)

| 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 | 01/21/2020 | ND | 204 | 102 | 200 | 0.615 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/21/2020 | ND | 213 | 106 | 200 | 1.51 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/21/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.9 % 41-142
Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 01/20/2020 | Sampling Date: | 01/16/2020 |
| Reported: | 01/22/2020 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S - 4 1' (H000193-05)

| 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 | 01/21/2020 | ND | 204 | 102 | 200 | 0.615 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/21/2020 | ND | 213 | 106 | 200 | 1.51 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/21/2020 | ND | | | | | |
| <hr/> | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 93.9 % | 41-142 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.4 % | 37.6-147 | | | | | | | |

Sample ID: S - 4 2' (H000193-06)

| 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 | 01/21/2020 | ND | 204 | 102 | 200 | 0.615 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/21/2020 | ND | 213 | 106 | 200 | 1.51 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/21/2020 | ND | | | | | |
| <hr/> | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 95.2 % | 41-142 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.0 % | 37.6-147 | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

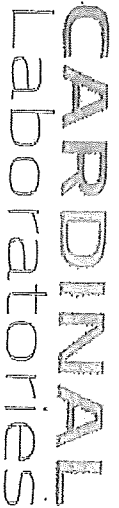
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500CI-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



104 East Maryland, Hobbs, NM 88240
(575) 393-2526 FAX (575) 353-2476

[illegible]



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

July 02, 2020

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CORAZON ST UNIT #5H

Enclosed are the results of analyses for samples received by the laboratory on 07/01/20 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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



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

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 07/01/2020 | Sampling Date: | 06/30/2020 |
| Reported: | 07/02/2020 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: SW - 10 A 0-1' (H001726-01)

| 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 | 07/02/2020 | ND | 171 | 85.5 | 200 | 22.9 | |
| DRO >C10-C28* | 56.1 | 10.0 | 07/02/2020 | ND | 166 | 83.0 | 200 | 22.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/02/2020 | ND | | | | | |
| <hr/> | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 88.9 % | 44.3-144 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.9 % | 42.2-156 | | | | | | | |

Sample ID: SW - 11 A 1' (H001726-02)

| 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 | 07/01/2020 | ND | 171 | 85.5 | 200 | 22.9 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/01/2020 | ND | 166 | 83.0 | 200 | 22.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/01/2020 | ND | | | | | |
| <hr/> | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 86.4 % | 44.3-144 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.3 % | 42.2-156 | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager

Page 94 of 100
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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 07/01/2020 | Sampling Date: | 06/30/2020 |
| Reported: | 07/02/2020 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S - 13 0-1' (H001726-03)

| 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 | 07/01/2020 | ND | 2.02 | 101 | 2.00 | 2.02 | |
| Toluene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.16 | 108 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.03 | 101 | 2.00 | 1.61 | |
| Total Xylenes* | <0.150 | 0.150 | 07/01/2020 | ND | 6.37 | 106 | 6.00 | 1.24 | |
| Total BTEX | <0.300 | 0.300 | 07/01/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 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 | 96.0 | 16.0 | 07/02/2020 | 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 | 07/01/2020 | ND | 171 | 85.5 | 200 | 22.9 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/01/2020 | ND | 166 | 83.0 | 200 | 22.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/01/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.1 % 42.2-156

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 07/01/2020 | Sampling Date: | 06/30/2020 |
| Reported: | 07/02/2020 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S - 14 0-1' (H001726-04)

| 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 | 07/01/2020 | ND | 2.02 | 101 | 2.00 | 2.02 | |
| Toluene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.16 | 108 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.03 | 101 | 2.00 | 1.61 | |
| Total Xylenes* | <0.150 | 0.150 | 07/01/2020 | ND | 6.37 | 106 | 6.00 | 1.24 | |
| Total BTEX | <0.300 | 0.300 | 07/01/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 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 | 07/02/2020 | 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 | 07/02/2020 | ND | 171 | 85.5 | 200 | 22.9 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/02/2020 | ND | 166 | 83.0 | 200 | 22.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/02/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.4 % 42.2-156

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 07/01/2020 | Sampling Date: | 06/30/2020 |
| Reported: | 07/02/2020 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S - 15 0-1' (H001726-05)

| 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 | 07/01/2020 | ND | 2.02 | 101 | 2.00 | 2.02 | |
| Toluene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.16 | 108 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.03 | 101 | 2.00 | 1.61 | |
| Total Xylenes* | <0.150 | 0.150 | 07/01/2020 | ND | 6.37 | 106 | 6.00 | 1.24 | |
| Total BTEX | <0.300 | 0.300 | 07/01/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 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 | 07/02/2020 | 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 | 07/02/2020 | ND | 171 | 85.5 | 200 | 22.9 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/02/2020 | ND | 166 | 83.0 | 200 | 22.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/02/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/01/2020
 Reported: 07/02/2020
 Project Name: CORAZON ST UNIT #5H
 Project Number: 700778.119.01
 Project Location: COG - LEA CO NM

Sampling Date: 06/30/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 16 0-1' (H001726-06)

| 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 | 07/01/2020 | ND | 2.02 | 101 | 2.00 | 2.02 | |
| Toluene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.16 | 108 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.03 | 101 | 2.00 | 1.61 | |
| Total Xylenes* | <0.150 | 0.150 | 07/01/2020 | ND | 6.37 | 106 | 6.00 | 1.24 | |
| Total BTEX | <0.300 | 0.300 | 07/01/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 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 | 16.0 | 16.0 | 07/02/2020 | 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 | 07/02/2020 | ND | 171 | 85.5 | 200 | 22.9 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/02/2020 | ND | 166 | 83.0 | 200 | 22.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/02/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 07/01/2020 | Sampling Date: | 06/30/2020 |
| Reported: | 07/02/2020 | Sampling Type: | Soil |
| Project Name: | CORAZON ST UNIT #5H | Sampling Condition: | Cool & Intact |
| Project Number: | 700778.119.01 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG - LEA CO NM | | |

Sample ID: S - 17 0-1' (H001726-07)

| 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 | 07/01/2020 | ND | 2.02 | 101 | 2.00 | 2.02 | |
| Toluene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.16 | 108 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/01/2020 | ND | 2.03 | 101 | 2.00 | 1.61 | |
| Total Xylenes* | <0.150 | 0.150 | 07/01/2020 | ND | 6.37 | 106 | 6.00 | 1.24 | |
| Total BTEX | <0.300 | 0.300 | 07/01/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 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 | 07/02/2020 | 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 | 07/02/2020 | ND | 171 | 85.5 | 200 | 22.9 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/02/2020 | ND | 166 | 83.0 | 200 | 22.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/02/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.7 % 42.2-156

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Coley D. Keene, Lab Director/Quality Manager

Page 99 of 100

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Notes and Definitions

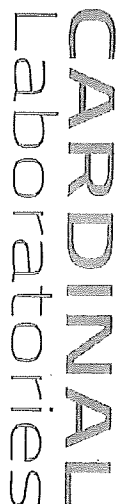
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** 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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