





### Remediation and Closure Report

Corazon State Unit #5H API # 30-025-40947 \*1RP-5474 Talon Project #700778.119.01

### Prepared For:

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

### Prepared By:

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

June 27, 2019

Dylan Rose-Coss NMOCD 1220 South St. Francis Drive Santa Fe, NM 87505

Subject:

**Remediation and Closure Report** 

Corazon State Unit #5H

API # 30-025-40947 \*1RP-5474

Dear Mr. Rose-Coss,

COG Operating, LLC (COG) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The incident description, soil sampling results, remediation activities, and closure request 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 Land complex 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 well dry.

### **Ground Water and Site Ranking**

The New Mexico State Engineer Data Base indicates that the average depth to groundwater in the project vicinity to be greater than 100-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 2500 mg/kg for Total TPH, and Total Chlorides is 20,000 mg/kg.

This location is in an area of low Karst as well as being in a no flood zone. See Appendix II for FEMA Flood Map and Karst Map.

### **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 oil. A vacuum truck was called in and a total of 2 barrels of produced water and 2 barrels of oil was recovered. A site map is presented in Appendix I. The initial C-141 is attached in Appendix II.

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 were collected from the bottom and sidewalls of the excavation to ensure that all environmental impacts had been addressed.

See Appendix V for the complete report of laboratory results.

5-6-19 Soil Sampling Results

|              |                  | Piii 19 1 to |          |          |           |            |       |             |        |
|--------------|------------------|--------------|----------|----------|-----------|------------|-------|-------------|--------|
| Committee ID | Comple Date      | Depth (BGS)  | BTEX     | Benzene  | GRO       | DRO        | MRO   | Total TPH   | Cl     |
| Sample ID    | Sample Date      | Depth (BG3)  | mg/kg    | mg/kg    | mg/kg     | mg/kg      | mg/kg | mg/kg       | mg/kg  |
|              | i.l. f. 631 B    | Library O    | 50 D     | 10 mg/kg | DRO + GRO | combined = |       | 2500 mg/kg  | 20,000 |
| NMOCD RRA    | L's for Site Rar | ikings u     | 50 mg/kg |          | 1000      | mg/kg      |       | 2300 Hig/kg | mg/kg  |
| S-1          | 5/6/2019         | 0            | 3.7      | 0.05     | 58.4      | 2390       | 727   | 3175.4      | 5840   |
| S-2          | 5/6/2019         | 0            | 0.417    | 0.05     | 0         | 34.8       | 0     | 34.8        | 24800  |
| S-3          | 5/6/2019         | 0            | 0.521    | 0.05     | 0         | 25.6       | 0     | 25.6        | 24800  |
| S-4          | 5/6/2019         | 0            | 29.2     | 0.2      | 908       | 8480       | 1330  | 10718       | 6160   |
| S-5          | 5/6/2019         | 0            | 13.9     | 0.05     | 384       | 5230       | 927   | 6541        | 4480   |
| S-6          | 5/6/2019         | 0            | 114      | 0.2      | 2990      | 23200      | 3950  | 30140       | 64     |
| S-7          | 5/6/2019         | 0            | 82.8     | 0.2      | 2100      | 23500      | 4520  | 30120       | 752    |

5-9-19 Soil Sampling Results

| o o to con camping reconce       |                           |          |               |                  |                     |              |              |                    |             |  |  |
|----------------------------------|---------------------------|----------|---------------|------------------|---------------------|--------------|--------------|--------------------|-------------|--|--|
| Sample ID                        | ID Sample Date Depth (BGS |          | BTEX<br>mg/kg | Benzene<br>mg/kg | GRO<br>mg/kg        | DRO<br>mg/kg | MRO<br>mg/kg | Total TPH<br>mg/kg | Cl<br>mg/kg |  |  |
| NMOCD RRAL's for Site Rankings 0 |                           | 50 mg/kg | 10 mg/kg      | DRO + GRO        | combined =<br>mg/kg | in i         | 2500 mg/kg   | 20,000<br>mg/kg    |             |  |  |
| S-1                              | 5/9/2019                  | 0.5      | 0.449         | 0                | 240                 | 1750         | 132          | 2122               | 204         |  |  |
| S-2                              | 5/9/2019                  | 0.5      | 0             | 0                | 0                   | 47.2         | 8.14         | 55.3               | 880         |  |  |
| S-5                              | 5/9/2019                  | 0.5      | 27.5          | 0.105            | 1730                | 8790         | 839          | 11359              | 7450        |  |  |
| S-6                              | 5/9/2019                  | 0.5      | 0.312         | 0                | 476                 | 3930         | 272          | 4678               | 3870        |  |  |
| SW-8                             | 5/9/2019                  | 0.5      | 1.78          | 0                | 653                 | 10400        | 1150         | 12203              | 2750        |  |  |
| SW-9                             | 5/9/2019                  | 0.5      | 0             | 0                | 0                   | 81.9         | 17.8         | 99.7               | 3490        |  |  |
| SW-10                            | 5/9/2019                  | 0.5      | 0             | 0                | 13.3                | 2050         | 192          | 2255.3             | 4860        |  |  |
| SW-11                            | 5/9/2019                  | 0.5      | 0.424         | 0                | 606                 | 7260         | 738          | 8604               | 76          |  |  |
| SW-12                            | 5/9/2019                  | 0.5      | 0             | 0                | 221                 | 4980         | 290          | 5491               | 4570        |  |  |

5-21-19 Soil Sampling Results

| 0 2 1 10      | con carri        | 311119 1 100 |          |          |           |            |       |             |  |
|---------------|------------------|--------------|----------|----------|-----------|------------|-------|-------------|--|
| s   ID        | Carrala Data     | Donth (DCC)  | BTEX     | Benzene  | GRO       | DRO        | MRO   | Total TPH   |  |
| Sample ID     | Sample Date      | Depth (BGS)  | mg/kg    | mg/kg    | mg/kg     | mg/kg      | mg/kg | mg/kg       |  |
| 111 40 CD DDA | II f Sit D       | Lines O      | E0 //    | 10 mg/kg | DRO + GRO | combined = |       | 2500 mg/kg  |  |
| NMOCD RRA     | L's for Site Rar | ikings u     | 50 mg/kg | 10 mg/kg | 1000      | mg/kg      |       | 2500 Hig/kg |  |
| S-1 A         | 5/21/2019        | 1            | 0.3      | 0.05     | 0         | 2210       | 601   | 2811        |  |
| S-5 A         | 5/21/2019        | 1            | 45.1     | 0.2      | 1490      | 10500      | 2030  | 14020       |  |
| S-6 A         | 5/21/2019        | 1            | 0.3      | 0.05     | 0         | 493        | 118   | 611         |  |
| S-7 A         | 5/21/2019        | 1            | 0.3      | 0.05     | 0         | 364        | 83.1  | 447.1       |  |
| S-8 A         | 5/21/2019        | 1            | 0.3      | 0.05     | 0         | 52.1       | 0     | 52.1        |  |
| S-11 A        | 5/21/2019        | 1            | 0.866    | 0.05     | 31        | 1570       | 457   | 2058        |  |
| S-12 A        | 5/21/2019        | 1            | 0.3      | 0.05     | 0         | 19.1       | 0     | 19.1        |  |

5-29-19 Soil Sampling Results

| 0 20 10   | oon oam                          | 11119 1 100  | 01.10    |              |             |                     |       |            |
|-----------|----------------------------------|--------------|----------|--------------|-------------|---------------------|-------|------------|
| 6 1 10    | c   D-1-                         | Double (DCC) | BTEX     | BTEX Benzene |             | DRO                 | MRO   | Total TPH  |
| Sample ID | Sample Date                      | Depth (BGS)  | mg/kg    | mg/kg        | mg/kg mg/kg |                     | mg/kg | mg/kg      |
| NMOCD RRA | NMOCD RRAL's for Site Rankings 0 |              | 50 mg/kg | 10 mg/kg     |             | combined =<br>mg/kg | H     | 2500 mg/kg |
| S-1 B     | 5/29/2019                        | 2            | ND       | ND           | ND          | ND                  | ND    | ND         |
| S-5 B     | 5/29/2019                        | 2            | ND       | ND           | ND          | ND                  | ND    | ND         |
| S-11 B    | 5/29/2019                        | 2            | ND       | ND           | ND          | ND                  | ND    | ND         |

ND-Analyte Not Detected

### **Remedial Actions Taken:**

- The impacted area in the vicinity of S-1, S-4, and S-5 was excavated to a depth of 2.0-feet BGS with 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 with confirmation bottom and sidewall samples obtained to ensure the contamination had been removed.
- The impacted areas in the vicinity of S-6 and S-7 was excavated to a depth of 1.0-foot BGS with confirmation samples obtained.
- All contaminated soil was transported to Lea Land, LLC and R360, both are NMOCD approved soil waste disposal facilities.
- The excavated area was backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- A Final C-141 is attached in Appendix IV

### Closure

On behalf of COG, we respectfully request that no further actions be required at this site and that closure with regard to this incident be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

Chris Jones Project Manager David J. Adkins
District Manager

Attachments:

Appendix I Site Plan

Appendix II Initial C-141, Groundwater Data, FEMA Flood Zone, Soil Survey

Appendix III Photographic Documentation

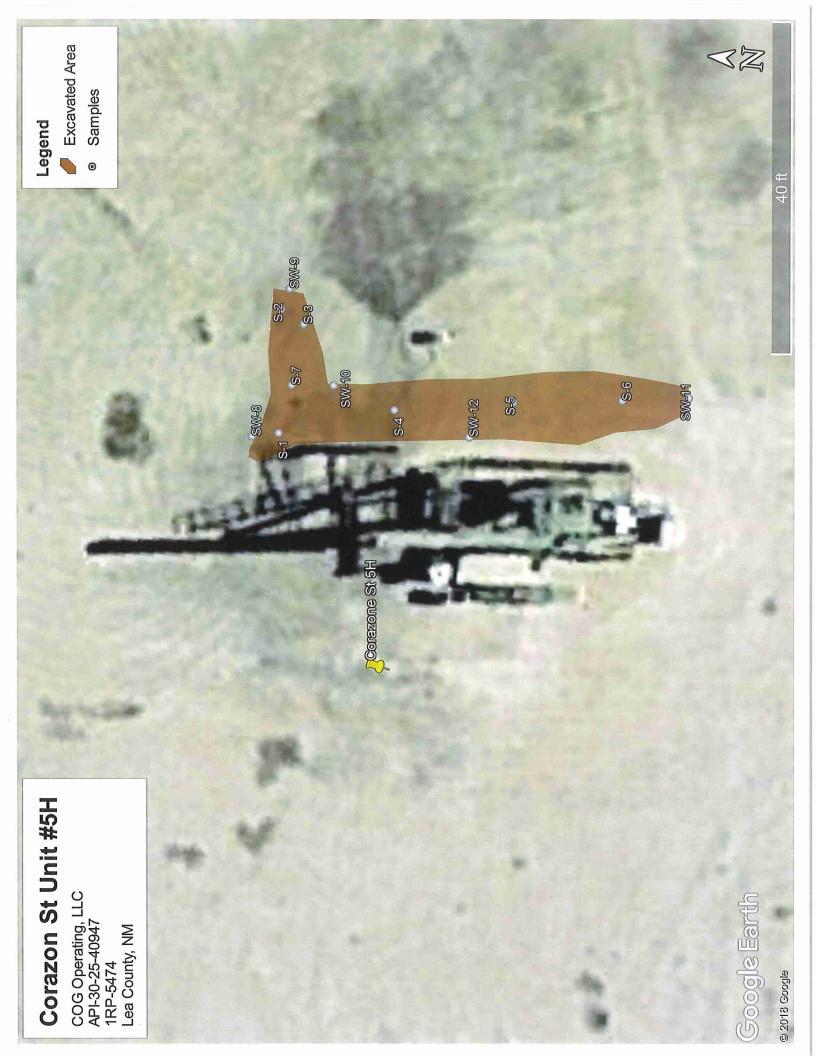
Appendix IV Final C-141

Appendix V Laboratory Results



# **APPENDIX I**

# SITE PLAN





# <u>APPENDIX II</u>

**INITIAL C-141** 

**GROUNDWATER DATA** 

**FEMA FLOOD ZONE** 

**SOIL SURVEY** 

**KARST MAP** 

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 Operatir                    | ng, LLC                 |            | OGRID                     |   | 229137                    |       |
|---------------|-------------|---------------------------------|-------------------------|------------|---------------------------|---|---------------------------|-------|
| Contact Nam   | ne          | Jennifer Kn                     | owlton                  | Contact Te | elephone                  | (575) 748-1570                          |                           |       |
| Contact emai  | i1          | JKnowlton(                      | @concho.com             | 1          | Incident#                 | (assigned by OCD)                       |                           |       |
| Contact mail  | ing address | 600 West III                    | inois Avenue,           | Midlar     | nd, Texas                 | 79701                                   |                           |       |
|               |             |                                 |                         |            | ·····                     |   |                           |       |
|               |             |                                 | Location                | of R       | elease So                 | ource                                   |                           |       |
| Latitude      | 32.5008     | 35                              |                         |            | Longitude                 | -103.56                                 | 786                       |       |
|               |             |                                 | (NAD 83 in dec          |            |                           | nal places)                             |                           |       |
| Site Name     |             | Corazon State                   | Unit #005H              |            | Site Type                 | Flowli                                  | ine                       |       |
| Date Release  | Discovered  | March 30, 20                    | 19                      |            | API# (if app              | licable) 30-02                          | 5-40947                   |       |
|               |             |                                 |                         | ······     |                           |   | 1                         |       |
| Unit Letter   | Section     | Township                        | Range                   |            | Coun                      |   |                           |       |
| M             | 03          | 21S                             | 33E                     |            | Lea                       | 9                                       |                           |       |
| Surface Owner | r State     | ☐ Federal ☐ Tr                  | ibal 🗌 Private ()       | Vame:      |                           |   |                           | ) .   |
| Burrace Owner | . E Diato   |                                 | 1117 LL (1              | iume.      |                           | * |                           | _/    |
|               |             |                                 | Nature and              | l Vol      | ume of I                  | Release                                 |                           |       |
|               | Material    | l(s) Released (Select al        | I that apply and attach | calculati  | ions or specific          | justification for the                   | volumes provided below)   |       |
| Crude Oil     | l           | Volume Release                  | d (bbls) 2.5            | 5          |                           | Volume Reco                             | vered (bbls) 2            |       |
| Produced      | Water       | Volume Release                  | d (bbls) 2.5            |            | Volume Recovered (bbls) 2 |   |                           |       |
|               |             |                                 | ion of dissolved c      | hloride    | in the                    | Yes N                                   | 0                         |       |
| Condensa      | ite         | produced water > Volume Release |                         |            |                           | Volume Reco                             | vered (bbls)              |       |
| Natural G     | as          | Volume Release                  |                         |            |                           | Volume Reco                             |                           |       |
| Other (de     |             |                                 | Released (provide       | e units)   |                           |   | tht Recovered (provide u  | nite) |
| caner (as     |             | , oranie, ir orgini             | recoused (provide       |            |                           | Toranio, IT org                         | mi icoco vered (provide d | шы    |
| Cause of Rel  | ease        |                                 |                         |            |                           |   |                           |       |
|               |             | used by a hole                  | e in the flowlir        | ne. Th     | ne flowline               | e is beina re                           | paired.                   |       |
|               |             |                                 |                         |            |                           |   | all freestanding flui     | ds.   |

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?  Yes No  If YES, was immediate no  | If YES, for what reason(s) does the respondence of | om? When and by what means (phone, email, etc)?  |
|---|---|--|
|   | Initial Re  | esponse  |
| The responsible p   | party must undertake the following actions immediatel   | vunless they could create a safety hazard that would result in injury  |
| Released materials ha   | s been secured to protect human health and  | ikes, absorbent pads, or other containment devices. I managed appropriately.   |
| has begun, please attach a  | a narrative of actions to date. If remedial   | emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.  |
| regulations all operators are public health or the environm failed to adequately investigated to adequately investigated to a second control of the control | required to report and/or file certain release notifient. The acceptance of a C-141 report by the Oate and remediate contamination that pose a three a C-141 report does not relieve the operator of a Grant  | Dest of my knowledge and understand that pursuant to OCD rules and dications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws  Title:  HSE Administrative Assistant  Date:  4/1/2019 |
| email: agrant@co  | ncho.com  | Telephone: (432) 253-4513  |
|   |   |  |
| OCD Only  |   |  |
| Received by:  |   | Date:  |



# 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   |        |    |    |   |     |     |     |              |          |            |            |            |       |
|----------|-----------------|------|-------|--------|----|----|---|-----|-----|-----|--------------|----------|------------|------------|------------|-------|
|          |                 |      | Sub-  |        | Q  | Q  | Q |     |     |     |              |          |            |            | ,          | Water |
| F        | OD Number       | Code | basin | County | 64 | 16 | 4 | Sec | Tws | Rng | $\mathbf{X}$ | Y        | DistanceDe | epthWellDe | pthWater C | olumn |
| (        | CP 00801 POD1   |      | CP    | LE     | 3  | 2  | 1 | 11  | 21S | 33E | 636555       | 3596549* | 2038       | 200        |            |       |
| (        | <u>CP 00578</u> |      | CP    | LE     |    | 4  | 3 | 11  | 21S | 33E | 636674       | 3595445* | 2555       | 165        | 150        | 15    |
| <u>C</u> | CP 01317 POD1   |      | CP    | LE     | 1  | 3  | 2 | 02  | 21S | 33E | 636884       | 3598450  | 2839       | 1250       | 1025       | 225   |
| <u>C</u> | 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

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.

5/29/19 1:21 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

<sup>\*</sup>UTM location was derived from PLSS - see Help

# National Flood Hazard Layer FIRMette



OTHER AREAS OF FLOOD HAZARD SPECIAL FLOOD HAZARD AREAS MAP PANELS OTHER AREAS OTHER **FEATURES** STRUCTURES 103°33'45.61"W USGS The National Map: Orthoimagery. Data refreshed April, 2019. T21S R33E S10 T21S R33E S3 12/16/2008 Not-Printed 35025C1600D 35025CL450D 12/16/2008 **Not Printed** Zone D LEA COUNTY T21S R33E S4 T215 R33E S9 350130 200 250

# Legend

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



With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE) 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 Area with Reduced Flood Risk due to Future Conditions 1% Annual Chance Flood Hazard Zone



Area with Flood Risk due to Levee Zone D Levee. See Notes. Zone X





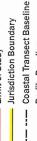
Area of Undetermined Flood Hazard Zone

| Channel, Culvert, or Storn | 111 Levee, Dike, or Flood |
|----------------------------|---------------------------|
|                            | 7                         |
|                            | _                         |

Cross Sections with 1% Annual Chance (B) 20.2



Jurisdiction Boundary mm 513 mm



Profile Baseline



Digital Data Available

No Digital Data Available

Unmapped

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

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

authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or was exported on 5/29/2019 at 3:21:11 PM and does not The flood hazard information is derived directly from the 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, FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, unmapped and unmodernized areas cannot be used for

### 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 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

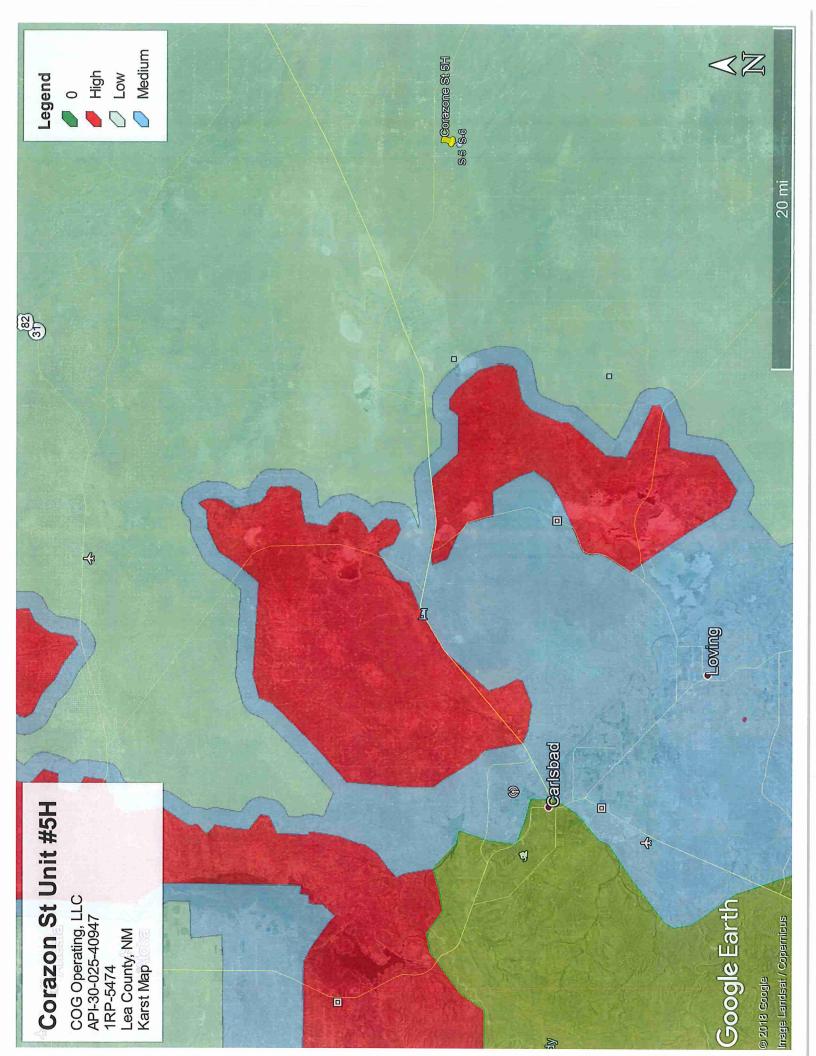
Down-slope shape: Linear Across-slope shape: Linear

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





# **APPENDIX III**

**FINAL C-141** 

# State of New Mexico Oil Conservation Division

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

### Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release?   | 150 (ft bgs)          |  |  |  |  |  |  |  |
|---|-----------------------|--|--|--|--|--|--|--|
| Did this release impact groundwater or surface water?   | ☐ Yes ⊠ No            |  |  |  |  |  |  |  |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  |                       |  |  |  |  |  |  |  |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  |                       |  |  |  |  |  |  |  |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | ☐ Yes ⊠ No            |  |  |  |  |  |  |  |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?   | ☐ Yes ⊠ No            |  |  |  |  |  |  |  |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | ☐ Yes ⊠ No            |  |  |  |  |  |  |  |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | ☐ Yes ⊠ No            |  |  |  |  |  |  |  |
| Are the lateral extents of the release within 300 feet of a wetland?  |                       |  |  |  |  |  |  |  |
| Are the lateral extents of the release overlying a subsurface mine?   |                       |  |  |  |  |  |  |  |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | ☐ Yes ⊠ No            |  |  |  |  |  |  |  |
| Are the lateral extents of the release within a 100-year floodplain?  | ☐ Yes ⊠ No            |  |  |  |  |  |  |  |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | ☐ Yes ⊠ No            |  |  |  |  |  |  |  |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.   | tical extents of soil |  |  |  |  |  |  |  |
| Characterization Report Checklist: Each of the following items must be included in the report.  |                       |  |  |  |  |  |  |  |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data  Data table of soil contaminant concentration data Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody | ls.                   |  |  |  |  |  |  |  |
|   |                       |  |  |  |  |  |  |  |

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

### State of New Mexico Oil Conservation Division

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

| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noting public health or the environment. The acceptance of a C-141 report by the Cartain failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of | fications and perform corrective actions for releases which may endanger of DCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In |
|--|---|
| and/or regulations.  Printed Name: Chris Jones  Signature:  email: cjones@talonlpe.com   | Title: Project Manager  Date: 6-27-19  Telephone: 575-746-8768  |
| OCD Only  Received by:   | Date:   |

## State of New Mexico Oil Conservation Division

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

### Closure

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

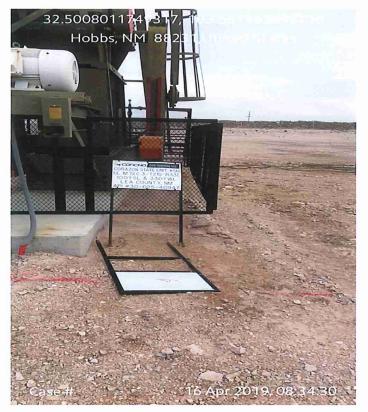
| Closure Report Attachment Checklist: Each of the following iter  | ms must be included in the closure report.   |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| A scaled site and sampling diagram as described in 19.15.29.11 NMAC  |  |  |  |  |  |  |  |
| Photographs of the remediated site prior to backfill or photos or must be notified 2 days prior to liner inspection)   | f the liner integrity if applicable (Note: appropriate OCD District office   |  |  |  |  |  |  |
| □ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)  |  |  |  |  |  |  |  |
| Description of remediation activities  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the impacted surface area to the concacordance with 19.15.29.13 NMAC including notification to the OC Printed Name: Ike Tavarez | ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in the reclamation and re-vegetation are complete. |  |  |  |  |  |  |
| Signature: 74 B  | Date: <u>6/28/2019</u>   |  |  |  |  |  |  |
| email: itavarez@concho.com   | Telephone: (432) 685-2573  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| OCD Only   |  |  |  |  |  |  |  |
| Received by:   | Date:  |  |  |  |  |  |  |
| Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.  |  |  |  |  |  |  |  |
| Closure Approved by:   | Date:  |  |  |  |  |  |  |
| Printed Name:  | Title:   |  |  |  |  |  |  |



# **APPENDIX IV**

# PHOTOGRAPHIC DOCUMENTATION

### Spill Event









### Excavation



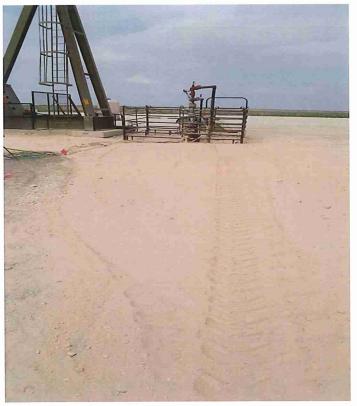






### Completed









# **APPENDIX V**

# LABORATORY DATA



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celes D. Keene

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



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

05/07/2019

Reported:

05/08/2019

Project Name:

CORAZON ST UNIT #5H

Project Number: Project Location:

03/00/2013

700778.119.01 COG - LEA CO NM Sampling Date:

05/06/2019

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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 9  | 6 73.3-12       | 9               |                 |      |            |               |       |           |
| Chloride, SM4500CI-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              | Analyze         | Analyzed By: MS |      |            |               | -0    |           |
| 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   | % 41-14.        | 2               |                 |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 142    | % 37.6-14       | 17              |                 |      |            |               |       |           |

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\*=Accredited Analyte

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Received:

05/07/2019

Reported:

05/08/2019

Project Name:

CORAZON ST UNIT #5H

Project Number: Project Location:

700778.119.01 COG - LEA CO NM Sampling Date:

05/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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 (PIL | 106 %  | 6 73.3-12       | 9               |              |      |            |               |       |           |
| 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              | Analyze         | d 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   | % 37.6-14       | 17              |              |      |            |               |       |           |

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Received:

05/07/2019

Reported:

05/08/2019

Project Name:

CORAZON ST UNIT #5H

Project Number:

700778.119.01

Project Location:

COG - LEA CO NM

Sampling Date:

05/06/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

### 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 (PIL | 111    | % 73.3-12       | 9               |                 |      |            |               |       |           |
| 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             | Analyze         | Analyzed By: MS |      |            | 4             |       |           |
| 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   | % 37.6-14       | 17              |                 |      |            |               |       |           |

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Reported:

05/08/2019

Project Name:

CORAZON ST UNIT #5H

Project Number: Project Location:

700778.119.01

COG - LEA CO NM

Sampling Date:

05/06/2019

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### 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 (PIL | 147 9  | % 73.3-12       | 9               |              |       |            |               |       |           |
| Chloride, SM4500Cl-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  |           |
| ТРН 8015М                            | mg/    | 'kg             | Analyze         | d 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    | % 37.6-14       | 7               |              |       |            |               |       |           |

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

Received:

05/07/2019

Reported:

05/08/2019

Project Name:

CORAZON ST UNIT #5H

Project Number: Project Location:

700778.119.01 COG - LEA CO NM Sampling Date:

05/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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 (PIL | 159    | % 73.3-12       | 9               |              |      |            |               |       |           |
| 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             | Analyze         | d 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        | 2               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 191    | % 37.6-14       | 17              |              |      |            |               |       |           |

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\*=Accredited Analyte

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Fax To:

(575) 745-8905

Received:

05/07/2019

Reported:

05/08/2019

Project Name:

CORAZON ST UNIT #5H

Project Number: Project Location:

700778.119.01

COG - LEA CO NM

Sampling Date:

05/06/2019

Sampling Type: Sampling Condition: Soil Cool & Intact

Sample Received By:

Tamara Oldaker

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 (PIL | 186    | % 73.3-12       | 9               |                 |      |            |               |       |           |  |
| 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             | Analyze         | 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    | % 37.6-14       | 17              |                 |      |            |               |       |           |  |

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\*=Accredited Analyte

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Celey & Keene



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

05/07/2019

Reported:

05/08/2019

Project Name:

CORAZON ST UNIT #5H

Project Number:

700778.119.01

Project Location:

COG - LEA CO NM

Sampling Date:

05/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

| BTEX 8021B                           | mg/kg  |                 | Analyze         | 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 (PIL | 166    | % 73.3-12       | 9               |                 |      |            |               |       |           |
| Chloride, SM4500CI-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             | Analyze         | d 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    | % 37.6-14       | 7               |                 |      |            |               |       |           |

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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 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  |

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

S.4: A2

40

Sampler - UPS - Bus - Other:

<sup>†</sup> 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-Allanta (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

Jessica Vramer

Project Assistant

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

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# **Sample Cross Reference 624019**



# Talon/LPE Co., Amarillo, TX

Corazon St 5H

| Sample Id      | Matrix | <b>Date Collected</b> | 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.





# 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<br>Number | Result |     | MQL  | SDL   | Units | Analysis<br>Date | Flag | Dil Factor |
|-----------|---------------|--------|-----|------|-------|-------|------------------|------|------------|
| Chloride  | 16887-00-6    | . 2    | 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<br>Number | Result     | MQL  | SDL     | Units | Analysis<br>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  | Uni   | ts Analysis D    | ate  | Flag       |
| 1-Chlorooctane                     |               | 117        |      | 70 - 13 | 5 %   |                  |      |            |
| o-Terphenyl                        |               | 127        |      | 70 - 13 | 5 %   | Ď                |      |            |

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

SCM

% Moist:

Tech:

SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

| Parameter            | CAS<br>Number | Result     | MQL     | SDL      | Units | Analysis<br>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   | Un    | its Analysis     | Date | Flag       |
| 1,4-Difluorobenzene  |               | 105        |         | 70 -     | 130 % | ,                |      |            |
| 4-Bromofluorobenzene |               | 187        |         | 70 -     | 130 % | Ó                |      | **         |





# 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<br>Number | Result | MQL  | SDL   | Units | Analysis<br>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

1005 Prep Method:

Analyst:

ARM

% Moist:

Tech:

ARM

Seq Number: 3088961

Date Prep: 05.13.19 17.00

Prep seq: 7677810

| Parameter                          | CAS<br>Number | Result     | MQL  | SDL     | Units | Analysis<br>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  | Un    | its Analysis     | Date | Flag       |
| 1-Chlorooctane                     |               | 96         |      | 70 - 13 | 35 %  | ó                |      |            |
| o-Terphenyl                        |               | 97         |      | 70 - 13 | 35 %  | ó                |      |            |

Analytical Method: BTEX by EPA 8021B

Analyst: SCM % Moist:

Prep Method: 5030B

Tech:

SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

| Parameter            | CAS<br>Number | Result     | MQL     | SDL      | Units | Analysis<br>Date | Flag | Dil Facto |
|----------------------|---------------|------------|---------|----------|-------|------------------|------|-----------|
| 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   | Un    | its Analysis     | Date | Flag      |
| 1,4-Difluorobenzene  |               | 98         |         | 70 -     | 130 % | ó                |      |           |
| 4-Bromofluorobenzene |               | 123        |         | 70 -     | 130 % | 6                |      |           |





# 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<br>Number | Result | MQL  | SDL  | Units | Analysis<br>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<br>Number | Result     | MQL  | SDL     | Units | Analysis<br>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  | Uni   | its Analysis D   | ate  | Flag       |
| 1-Chlorooctane                     |               | 93         |      | 70 - 13 | 35 %  | ,                |      |            |
| o-Terphenyl                        |               | 95         |      | 70 - 13 | 35 %  | ó                |      |            |

Analytical Method: BTEX by EPA 8021B

Analyst:

SCM

Prep Method:

Tech:

% Moist:

5030B SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

|                      |               | P1.        |        |        |       |                  |      |           |
|----------------------|---------------|------------|--------|--------|-------|------------------|------|-----------|
| Parameter            | CAS<br>Number | Result     | MQL    | SDL    | Units | Analysis<br>Date | Flag | Dil Facto |
| 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 | Un    | its Analysis     | Date | Flag      |
| 1,4-Difluorobenzene  |               | 94         |        | 70 -   | 130 % | 6                |      |           |
| 4-Bromofluorobenzene |               | 340        |        | 70 -   | 130 % | 6                |      | **        |
|                      |               |            |        |        |       |                  |      |           |





# 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

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

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

| CAS<br>Number | Result                           | MQL   | SDL   | Units   | Analysis<br>Date   | Flag  | Dil Factor  |
|---------------|----------------------------------|---|---|---|--|---|---|
| PHC610        | 476                              | 15.0  | 7.99  | mg/kg   | 05.14.19 01:14   |   | 1   |
| C10C28DRO     | 3930                             | 15.0  | 8.12  | mg/kg   | 05.14.19 01:14   |   | 1   |
| PHCG2835      | 272                              | 15.0  | 8.12  | mg/kg   | 05.14.19 01:14   |   | 1   |
| PHC635        | 4680                             |   | 7.99  | mg/kg   | 05.14.19 01:14   |   |   |
|               | % Recovery                       |   | Limits  | Uni   | its Analysis D   | ate   | Flag  |
|               | 129                              |   | 70 - 13   | 5 %   | ,<br>0   |   |   |
|               | 111                              |   | 70 - 13   | 55 %  | Ó  |   |   |
|               | Number PHC610 C10C28DRO PHCG2835 | Number         Result           PHC610         476           C10C28DRO         3930           PHCG2835         272           PHC635         4680           % Recovery           129 | Number         Result         MQL           PHC610         476         15.0           C10C28DRO         3930         15.0           PHCG2835         272         15.0           PHC635         4680 | Number         Result         MQL         SDL           PHC610         476         15.0         7.99           C10C28DRO         3930         15.0         8.12           PHCG2835         272         15.0         8.12           PHC635         4680         7.99           * Recovery         Limits           129         70 - 13 | Number         Result         MQL         SDL         Units           PHC610         476         15.0         7.99         mg/kg           C10C28DRO         3930         15.0         8.12         mg/kg           PHCG2835         272         15.0         8.12         mg/kg           PHC635         4680         7.99         mg/kg           * Recovery         Limits         Units           129         70 - 135         % | Number         Result         MQL         SDL         Units         Date           PHC610         476         15.0         7.99         mg/kg         05.14.19 01:14           C10C28DRO         3930         15.0         8.12         mg/kg         05.14.19 01:14           PHCG2835         272         15.0         8.12         mg/kg         05.14.19 01:14           PHC635         4680         7.99         mg/kg         05.14.19 01:14           **Recovery**         Limits         Units         Analysis Date           129         70 - 135         % | Number         Result         MQL         SDL         Units         Date         Flag           PHC610         476         15.0         7.99         mg/kg         05.14.19 01:14           C10C28DRO         3930         15.0         8.12         mg/kg         05.14.19 01:14           PHCG2835         272         15.0         8.12         mg/kg         05.14.19 01:14           PHC635         4680         7.99         mg/kg         05.14.19 01:14           ** Recovery**         Limits         Units         Analysis Date           129         70 - 135         % |

Analytical Method: BTEX by EPA 8021B

Analyst:

SCM

% Moist:

Prep Method:

Tech:

5030B SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

| Parameter            | CAS<br>Number | Result     | MQL     | SDL      | Units | Analysis<br>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   | Un    | its Analysis     | Date | Flag       |
| 1,4-Difluorobenzene  |               | 97         |         | 70 -     | 130 % | ,<br>D           |      |            |
| 4-Bromofluorobenzene |               | 200        |         | 70 -     | 130 % | Ď                |      | **         |





# Talon/LPE Co., Amarillo, TX

Corazon St 5H

Sample Id:

S-8 Side Wall

Matrix:

Soil

Sample Depth: 6 In

Prep Method: E300P

Lab Sample Id: 624019-005

Date Collected: 05.09.19 09.20

Date Received: 05.13.19 10.50

Analyst:

Analytical Method: Chloride by EPA 300

% Moist:

CHE

CHE

Tech:

Seq Number: 3088952

Date Prep: 05.13.19 17.00

Prep seq: 7677763

| Parameter | CAS<br>Number | Result | MQL  | SDL  | Units | Analysis<br>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<br>Number | Result     | MQL  | SDL     | Units | Analysis<br>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  | Un    | its Analysis I   | Date | Flag       |
| 1-Chlorooctane                     |               | 127        |      | 70 - 13 | 35 %  | ó                |      |            |
| o-Terphenyl                        |               | 176        |      | 70 - 13 | 35 %  | 6                |      | **         |

Analytical Method: BTEX by EPA 8021B

Analyst:

SCM

% Moist:

Prep Method:

Tech:

5030B SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

| Parameter            | CAS<br>Number | Result     | MQL    | SDL     | Units | Analysis<br>Date | Flag | Dil Facto |
|----------------------|---------------|------------|--------|---------|-------|------------------|------|-----------|
| 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  | Un    | its Analysis     | Date | Flag      |
| 1,4-Difluorobenzene  |               | 105        |        | 70 -    | 130 % | 6                |      |           |
| 4-Bromofluorobenzene |               | 216        |        | 70 -    | 130 % | 6                |      | **        |
|                      |               |            |        |         |       |                  |      |           |





# 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<br>Number | Result | MQL  | SDL  | Units | Analysis<br>Date | Dil Factor<br>Flag |
|-----------|---------------|--------|------|------|-------|------------------|--------------------|
| 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<br>Number | Result     | MQL  | SDL     | Units | Analysis<br>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  | Uni   | its Analysis     | Date | Flag.      |
| 1-Chlorooctane                     |               | 99         |      | 70 - 13 | 35 %  | D                |      |            |
| o-Terphenyl                        |               | 99         |      | 70 - 13 | 35 %  | ,<br>o           |      |            |

Analytical Method: BTEX by EPA 8021B

Analyst:

SCM

% Moist:

Prep Method: 5030B

Tech:

SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

| Parameter            | CAS<br>Number | Result     | MQL     | SDL      | Units | Analysis<br>Date | Flag | Dil Facto |
|----------------------|---------------|------------|---------|----------|-------|------------------|------|-----------|
| 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   | Un    | its Analysis     | Date | Flag      |
| 1,4-Difluorobenzene  |               | 99         |         | 70 - 1   | 130 % | 6                |      |           |
| 4-Bromofluorobenzene |               | 124        |         | 70 - 1   | 130 % | 6                |      |           |
|                      |               |            |         |          |       |                  |      |           |





# 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<br>Number | Result | MQL  | SDL  | Units | Analysis<br>Date | Dil Factor<br>Flag |
|-----------|---------------|--------|------|------|-------|------------------|--------------------|
| 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<br>Number | Result     | MQL  | SDL    | Units | Analysis<br>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 | Uni   | its Analysis     | Date | Flag       |
| 1-Chlorooctane                     |               | 100        |      | 70 - 1 | 35 %  | ó                |      |            |
| o-Terphenyl                        |               | 123        |      | 70 - 1 | 35 %  | Ó                |      |            |

Analytical Method: BTEX by EPA 8021B

Analyst:

SCM

% Moist:

Prep Method:

Tech:

5030BSCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

| CAS<br>Number | Result   | MQL  | SDL   | Units   | Analysis<br>Date  | Flag   | Dil Fact  |
|---------------|--|--|---|---|---|--|---|
| 71-43-2       | <0.000388  | 0.00202  | 0.000388  | mg/kg   | 05.14.19 04:53  | U  | 1   |
| 108-88-3      | < 0.000459   | 0.00202  | 0.000459  | mg/kg   | 05.14.19 04:53  | U  | 1   |
| 100-41-4      | < 0.000569   | 0.00202  | 0.000569  | mg/kg   | 05.14.19 04:53  | U  | 1   |
| 179601-23-1   | < 0.00102  | 0.00403  | 0.00102   | mg/kg   | 05.14.19 04:53  | U  | 1   |
| 95-47-6       | < 0.000347   | 0.00202  | 0.000347  | mg/kg   | 05.14.19 04:53  | U  | 1   |
| 1330-20-7     | < 0.000347   |  | 0.000347  | mg/kg   | 05.14.19 04:53  | U  |   |
|               | <0.000347  |  | 0.000347  | mg/kg   | 05.14.19 04:53  | U  |   |
|               | % Recovery   |  | Limits  | Un  | its Analysis  | Date   | Flag  |
| •             | 98   |  | 70 -  | 130 %   | ó   |  |   |
|               | 125  |  | 70 -  | 130 %   | ,<br>0  |  |   |
|               | Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | Number Result  71-43-2 <0.000388  108-88-3 <0.000459  100-41-4 <0.000569  179601-23-1 <0.00102  95-47-6 <0.000347  1330-20-7 <0.000347  % Recovery  98 | Number         Result         MQL           71-43-2         <0.000388 | Number         Result         MQL         SDL           71-43-2         <0.000388 | Number         Result         MQL         SDL         Units           71-43-2         <0.000388 | Number         Result         MQL         SDL         Units         Date           71-43-2         <0.000388 | Number         Result         MQL         SDL         Units         Date         Flag           71-43-2         <0.000388 |





# 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

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

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<br>Number | Result     | MQL  | SDL     | Units | Analysis<br>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  | Un    | its Analysis l   | Date | Flag       |
| 1-Chlorooctane                     |               | 127        |      | 70 - 13 | 35 %  | 6                |      |            |
| o-Terphenyl                        |               | 94         |      | 70 - 13 | 35 %  | 6                |      |            |

Analytical Method: BTEX by EPA 8021B

Analyst:

SCM

% Moist:

Prep Method:

Tech:

5030B SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

| Parameter            | CAS<br>Number | Result     | MQL     | SDL      | Units | Analysis<br>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   | Un    | its Analysis     | Date | Flag       |
| 1,4-Difluorobenzene  |               | 86         |         | 70 -     | 130 % | 6                |      |            |
| 4-Bromofluorobenzene |               | 210        |         | 70 -     | 130 % | 6                |      | **         |





# 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<br>Number | Result | MQL  | SDL  | Units | Analysis<br>Date | Dil Fa<br>Flag | ctor |
|-----------|---------------|--------|------|------|-------|------------------|----------------|------|
| 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<br>Number | Result     | MQL  | SDL     | Units | Analysis<br>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  | Uni   | its Analysis I   | Date | Flag       |
| 1-Chlorooctane                     |               | 122        |      | 70 - 13 | 5 %   |                  |      |            |
| o-Terphenyl                        |               | 102        |      | 70 - 13 | 5 %   | 3                |      |            |

Analytical Method: BTEX by EPA 8021B

Analyst:

SCM

% Moist:

Prep Method:

5030B

Tech:

SCM

Seq Number: 3088922

Date Prep: 05.13.19 14.30

| Parameter            | CAS<br>Number | Result     | MQL     | SDL      | Units | Analysis<br>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   | Uni   | its Analysis     | Date | Flag       |
| 1,4-Difluorobenzene  |               | 90         |         | 70 - 1   | 130 % | ó                |      |            |
| 4-Bromofluorobenzene |               | . 168      |         | 70 - 1   | 130 % | 0                |      | **         |





# 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:

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3088952

Analytical Method: Chloride by EPA 300

Date Prep: 05.13.19 17.00

Prep seq: 7677763

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

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

Analyst:

SCM

% Moist:

Prep Method: Tech:

5030B

Analysis Date

Flag

Seq Number:

3088922

Date Prep: 05.13.19 14.30

Prep seq: 7677773

SCM

| Parameter     | CAS<br>Number | Result     | MQL     | SDL      | Units | Analysis<br>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 |
|----------------------|------------|----------|-------|
| 1,4-Difluorobenzene  | 101        | 70 - 130 | %     |
| 4-Bromofluorobenzene | 107        | 70 - 130 | %     |





# 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

|                                    |               | 1          |      |         |       |                  |      |           |
|------------------------------------|---------------|------------|------|---------|-------|------------------|------|-----------|
| Parameter                          | CAS<br>Number | Result     | MQL  | SDL     | Units | Analysis<br>Date | Flag | Dil Facto |
| 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  | Un    | its Analysis     | Date | Flag      |
| 1-Chlorooctane                     |               | 99         |      | 70 - 13 | 35 %  | 6                |      |           |
| o-Terphenyl                        |               | 101        |      | 70 - 13 | 35 %  | 6                |      |           |
|                                    |               |            |      |         |       |                  |      |           |



# 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.
- 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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- 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.
- 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.
- 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.

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

Method Detection Limit

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

| <b>Units:</b> mg/kg <b>Date Analyzed:</b> 05/13/19 22:18 | SURROGATE RECOVERY STUDY |                       |                |                         |       |  |  |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B  | Amount<br>Found<br>[A]   | True<br>Amount<br>[B] | Recovery<br>%R | Control<br>Limits<br>%R | Flags |  |  |
| Analytes   |                          |                       | [D]            |                         |       |  |  |
| 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

0.0300

SURROGATE RECOVERY STUDY Units: mg/kg Date Analyzed: 05/13/19 22:37 Amount Control BTEX by EPA 8021B Flags Found Amount Recovery Limits %R %R [A] [B] [D] **Analytes** 0.0280 93 70-130 1,4-Difluorobenzene 0.0300

0.0325

4-Bromofluorobenzene

Lab Batch #: 3088922

Sample: 624018-001 S / MS

Batch:

Matrix: Soil

108

70-130

| Units: mg/kg         | <b>Date Analyzed:</b> 05/13/19 22:56 | SURROGATE RECOVERY STUDY |                       |                       |                         |       |  |  |
|----------------------|--------------------------------------|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|
| втех                 | K by EPA 8021B  Analytes             | Amount<br>Found<br>[A]   | True<br>Amount<br>[B] | Recovery<br>%R<br>[D] | Control<br>Limits<br>%R | Flags |  |  |
| 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  Analytes                | Amount<br>Found<br>[A]   | True<br>Amount<br>[B] | Recovery<br>%R<br>[D] | Control<br>Limits<br>%R | Flags |  |  |
| 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:

Matrix: Solid

| Units: mg/kg Date Analyzed: 05/13/19 23:51 | SURROGATE RECOVERY STUDY |                       |                       |                         |       |  |  |
|--|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B  Analytes                | Amount<br>Found<br>[A]   | True<br>Amount<br>[B] | Recovery<br>%R<br>[D] | Control<br>Limits<br>%R | Flags |  |  |
| 1,4-Difluorobenzene                        | 0.0303                   | 0.0300                | 101                   | 70-130                  |       |  |  |
| 4-Bromofluorobenzene                       | 0.0320                   | 0.0300                | 107                   | 70-130                  |       |  |  |

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



# 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

Matrix: Solid Batch:

| Units: mg/kg Date Analyzed: 05/13/19 19:08 | SURROGATE RECOVERY STUDY |                       |                       |                         |       |  |  |
|--|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|
| TPH by SW8015 Mod                          | Amount<br>Found<br>[A]   | True<br>Amount<br>[B] | Recovery<br>%R<br>[D] | Control<br>Limits<br>%R | Flags |  |  |
| Analytes  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

Matrix: Solid Batch: 1

SURROGATE RECOVERY STUDY

| Units: mg/kg Date Analyzed: 05/13/19 19:28 | SC                     | KKOGATE KI            | ECOVERIA       | 31001                   |       |
|--|------------------------|-----------------------|----------------|-------------------------|-------|
| TPH by SW8015 Mod                          | Amount<br>Found<br>[A] | True<br>Amount<br>[B] | Recovery<br>%R | Control<br>Limits<br>%R | Flags |
| Analytes                                   |                        |                       | [D]            |                         |       |
| 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   | <b>Date Analyzed:</b> 05/13/19 19:48 | SU                     | RROGATE R             | ECOVERY :             | STUDY                   |       |
|----------------|--------------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| ТРН            | by SW8015 Mod  Analytes              | Amount<br>Found<br>[A] | True<br>Amount<br>[B] | Recovery<br>%R<br>[D] | Control<br>Limits<br>%R | Flags |
| 1-Chlorooctane | ALWAY II                             | 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   | <b>Date Analyzed:</b> 05/13/19 20:29 | SU                     | RROGATE R             | ECOVERY               | STUDY                   |       |
|----------------|--------------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| ТРН            | by SW8015 Mod  Analytes              | Amount<br>Found<br>[A] | True<br>Amount<br>[B] | Recovery<br>%R<br>[D] | Control<br>Limits<br>%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

| <b>Units:</b> mg/kg <b>Date Analyzed:</b> 05/13/19 20:49 | SU                     | RROGATE RI            | ECOVERY               | STUDY                   |       |
|--|------------------------|-----------------------|-----------------------|-------------------------|-------|
| TPH by SW8015 Mod  Analytes                              | Amount<br>Found<br>[A] | True<br>Amount<br>[B] | Recovery<br>%R<br>[D] | Control<br>Limits<br>%R | Flags |
| 1-Chlorooctane   | 121                    | 99.8                  | 121                   | 70-135                  |       |
| o-Terphenyl  | 63.7                   | 49.9                  | 128                   | 70-135                  |       |

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



# **BS / BSD Recoveries**



Project Name: Corazon St 5H

Work Order #: 624019

SCM

Date Prepared: 05/13/2019

Project ID: 700778.119.01

Date Analyzed: 05/13/2019

Lab Batch ID: 3088922 Units: mg/kg

Analyst:

Sample: 7677773-1-BKS

Batch #: 1

Matrix: Solid

| Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY |                               |                       |                                 |                             |                       |   |                               | ERY STUI | ΟY                      |                           |         |
|--|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|----------|-------------------------|---------------------------|---------|
| BTEX by EPA 8021B  Analytes                                      | Blank<br>Sample Result<br>[A] | Spike<br>Added<br>[B] | Blank<br>Spike<br>Result<br>[C] | Blank<br>Spike<br>%R<br>[D] | Spike<br>Added<br>[E] | Blank<br>Spike<br>Duplicate<br>Result [F] | Bik. Spk<br>Dup.<br>%R<br>[G] | RPD<br>% | Control<br>Limits<br>%R | Control<br>Limits<br>%RPD | Flag    |
| Benzene  | < 0.000386                    | 0.100                 | 0.102                           | 102                         | 0.0996                | 0,103                                     | 103                           | i        | 70-130                  | 35                        |         |
| Toluene  | <0.000457                     | 0.100                 | 0.102                           | 102                         | 0.0996                | 0.100                                     | 100                           | 2        | 70-130                  | 35                        | T       |
| Ethylbenzene   | < 0.000566                    | 0.100                 | 0.113                           | 113                         | 0.0996                | 0.110                                     | 110                           | 3        | 70-130                  | 35                        | İ       |
| m,p-Xylenes  | <0.00102                      | 0.200                 | 0.235                           | 118                         | 0.199                 | 0.230                                     | 116                           | 2        | 70-130                  | 35                        | İ       |
| o-Xylene   | < 0.000345                    | 0.100                 | 0.115                           | 115                         | 0.0996                | 0.113                                     | 113                           | 2        | 70-130                  | 35                        | <b></b> |

Analyst:

Lab Batch ID: 3088952

Sample: 7677763-1-BKS

Date Prepared: 05/13/2019 Batch #: 1

Date Analyzed: 05/13/2019

Matrix: Solid

Units:

Analytes Chloride

| mg/kg               |                               | BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY |                                 |                             |                       |   |                               |          |                         |                           |      |  |
|---------------------|-------------------------------|--|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|----------|-------------------------|---------------------------|------|--|
| Chloride by EPA 300 | Blank<br>Sample Result<br>[A] | Spike<br>Added<br>[B]                                    | Blank<br>Spike<br>Result<br>[C] | Blank<br>Spike<br>%R<br>[D] | Spike<br>Added<br>[E] | Blank<br>Spike<br>Duplicate<br>Result [F] | Blk. Spk<br>Dup.<br>%R<br>[G] | RPD<br>% | Control<br>Limits<br>%R | Control<br>Limits<br>%RPD | Flag |  |
|                     | <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.%

Page 20 of 25



# **BS / BSD Recoveries**



Project Name: Corazon St 5H

Work Order #: 624019

Analyst:

ARM

Sample: 7677810-1-BKS Lab Batch ID: 3088961

Date Prepared: 05/13/2019 Batch #: 1

Project ID: 700778.119.01

Date Analyzed: 05/13/2019

Matrix: Solid

| Inits: | mø/ks |
|--------|-------|

| mg/kg |
|-------|
|-------|

| BLAN | K/BLANK S | SPIKE / I | BLANK S | SPIKE DUPI | LICATE | RECOVI | ERY STUI | Y  |
|------|-----------|-----------|---------|------------|--------|--------|----------|----|
|      |           |           |         |            |        |        |          |    |
|      |           | l .       | 1       | l          |        | 1      | 1        | г- |

| TPH by SW8015 Mod Analytes        | Blank<br>Sample Result<br>[A] | Spike<br>Added<br>[B] | Blank<br>Spike<br>Result<br>[C] | Blank<br>Spike<br>%R<br>[D] | Spike<br>Added<br>[E] | Biank<br>Spike<br>Duplicate<br>Result [F] | Bik. Spk<br>Dup.<br>%R<br>[G] | RPD<br>% | Control<br>Limits<br>%R | Control<br>Limits<br>%RPD | Flag |
|-----------------------------------|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|----------|-------------------------|---------------------------|------|
| 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 =  $200^{\circ}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{\circ}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{\circ}(F)/[E]$ All results are based on MDL and Validated for QC Purposes

Page 21 of 25



# Form 3 - MS / MSD Recoveries

Work Order #: Lab Batch ID:

624019

3088922

QC- Sample ID: 624018-001 S

Project Name: Corazon St 5H

Batch #: Analyst: SCM

Matrix: Soil

Project ID: 700778.119.01

Date Analyzed: 05/13/2019

Date Prepared: 05/13/2019

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY |                            |                |                                |                        |                |  |                      |          |                         |                     |      |
|---|----------------------------|----------------|--------------------------------|------------------------|----------------|--|----------------------|----------|-------------------------|---------------------|------|
| BTEX by EPA 8021B   | Parent<br>Sample<br>Result | Spike<br>Added | Spiked Sample<br>Result<br>[C] | Spiked<br>Sample<br>%R | Spike<br>Added | Duplicate<br>Spiked Sample<br>Result [F] | Spiked<br>Dup,<br>%R | RPD<br>% | Centrol<br>Limits<br>%R | Control Limits %RPD | Flag |
| Analytes  | [A]                        | [B]            | [0]                            | [D]                    | [E]            | result pr                                | [G]                  | ,,,      | 7021                    | ,,,,,,              |      |
| 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-Xvlene  | < 0.000344                 | 0.0998         | 0.100                          | 100                    | 0.101          | 0.105                                    | 104                  | 5        | 70-130                  | 35                  |      |

Lab Batch ID:

3088952

QC- Sample ID: 624018-001 S

Batch #:

Matrix: Soil

Date Analyzed:

05/13/2019

Date Prepared: 05/13/2019

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

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

Lab Batch ID:

3088952

QC- Sample ID: 624019-003 S

Batch #:

Matrix: Soil

Date Analyzed: Reporting Units:

05/13/2019

Date Prepared: 05/13/2019

Analyst: CHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

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

 $\label{eq:matrix Spike Percent Recovery [D] = 100*(C-A)/B} \\ \text{Relative Percent Difference} \quad \text{RPD} = 200*[(C-F)/(C+F)]$ 

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

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

Page 22 of 25



# Form 3 - MS / MSD Recoveries

Project Name: Corazon St 5H



Work Order #: Lab Batch ID:

Date Analyzed:

Reporting Units:

624019

3088961

05/13/2019

mg/kg

QC- Sample ID: 624018-001 S Date Prepared: 05/13/2019

Batch #:

Matrix: Soil

Project ID: 700778.119.01

Analyst: ARM

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| TPH by SW8015 Mod  Analytes       | Parent<br>Sample<br>Result<br>[A] | Spike<br>Added<br>[B] | Spiked Sample<br>Result<br>[C] | Spiked<br>Sample<br>%R<br>[D] | Spike<br>Added<br>[E] | Duplicate<br>Spiked Sample<br>Result [F] | Spiked<br>Dup.<br>%R<br>[G] | RPD<br>% | Control<br>Limits<br>%R | Control<br>Limits<br>%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\*(C-A)/B Relative Percent Difference RPD = 200\*(C-F)/(C+F)/

Matrix Spike Duplicate Percent Recovery [G] = 100\*(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.

Page 23 of 25



Work Order No: DAU 19

**Chain of Custody**Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

| Ċ  | 3 MAN BLE COMMON | Relinquished by: (Signature) Received by: (Signature) | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | Circle Method(s) and Metal(s) to be analyzed TCLP / SPI    | Total 200.7 / 6010 200.8 / 6020: 8RCRA 13P           | L_ | > 12 SIDE WALL   6/10/18 9:50a | <br>24 | 5- 9 SIDE WALL 5/9/1009 9:15mm | 5/10/19 | 4 BOTTOM 5 (10/19 | 5- 5 BOTTOM: 5/10/19 900an | S- 2 BOTTOM   5/9/19 9:05an | 5-1 BOTTOM SOIL 5/9/19 9:80m | Sample Identification Matrix Date Time Sampled Sampled | Sample Custody Seals: Yes Vola N/A Total Containers: | Cooler Custody Seals: Yes (NA Correction Factor: | Yes No | Temperature (°C): O-S O-U Thermometen ID | SAMPLE RECEIPT Temp Blank Yes (No) Wet Ice: | Sampler's Name: MICHAEL COLLER Due I | P.O. Number: 100778, 119.01 Rush: | Project Number: 100118.114.01 Routine | Project Name: COR 420nJ St 5th Tu | Phone:   575-616-4022 or 575-746-8905   Email: | City, State ZIP: Artesia, NM 88210 | Address: 408 W. Texas Ave. | Company Name: Talon (LPE | Project Manager: CHRIS JONES | Hobbs,NM (575-392-   |
|----|------------------|---|---|--|--|----|--------------------------------|--------|--------------------------------|---------|-------------------|----------------------------|-----------------------------|------------------------------|--|--|--|--------|--|---|--------------------------------------|-----------------------------------|---------------------------------------|-----------------------------------|--|------------------------------------|----------------------------|--------------------------|------------------------------|--|
| o, | 5/10/19 152 10 2 | ture)Date/Time   Relinquished by: (Signature)         | purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard 'terms and condit<br>responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the o<br>\$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.  | TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo N | 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb |    |                                |        |                                |         |                   |                            |                             | 6.1                          |  | er of  | c  | ntai   | ners                                     | Yes No                                      | Due Date:                            | R                                 |                                       | Turn Around ANALYSIS REQUEST      | Email: CTONES @ TRUNUPE.COM                    | City, State ZIP:                   | Address                    | Company Name:            | Bill to (trafferent)         | Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (805)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813- |
|    | 1080<br>1080     | re) A Received by: (Signature) Date/Time              | gns standard terms and conditions<br>to circumstances beyond the control<br>i unless previously negotiated.   | 1631 / 245.1 / 7470 /                                      | Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn          |    |                                |        |                                |         |                   |                            |                             |                              | Sample Comments  | lab, if received by 4:30pm                           | TAT starts the day received by the               |        |  |   |                                      |                                   |                                       | ST Work Order Notes               | Deliverables: EDD ☐ ADaPT ☐ Other:             | Reporting:Level II                 |                            | Program: UST/PST         | Work Order Con               | -1296<br>.FL (813-620-2000) www.xenco.com Page   |



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



Client: Talon/LPE Co.

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

Date/ Time Received: 05/15/2019 10.50.00 Aivi

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 |          |
|   |     |          |

| Analyst: |                         | PH Device/Lot#: |                         |  |
|----------|-------------------------|-----------------|-------------------------|--|
|          | Checklist completed by: | Bridder Tol     | Date: <u>05/13/2019</u> |  |
|          | Checklist reviewed by:  | Jessica Vramer  | Date: 05/13/2019        |  |

Jessica Kramer

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



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



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

Project Location:

COG - LEA CO NM

Sample Received By:

Tamara Oldaker

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

| BTEX 8021B                           | mg/    | 'kg             | Analyze    | d 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 (PIL | 150    | % 73.3-12       | 9          |              |      |            | 1 |      |           |
| TPH 8015M                            | mg,    | 'kg             | Analyze    | d 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        | 2          |              |      |            |   |      |           |
| Surrogate: 1-Chlorooctadecane        | 365    | % 37.6-14       | 17         |              |      |            |   |      |           |

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\*=Accredited Analyte

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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: Project Number: CORAZON ST UNIT #5H

700778.119.01

Project Location:

COG - LEA CO NM

Sampling Date:

ipiing bate:

Sampling Type: Soil

Sampling Condition:

Cool & Intact

05/21/2019

Sample Received By:

Tamara Oldaker

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

| BTEX 8021B                           | mg,    | 'kg             | Analyze    | d 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 (PIL | 94.8   | % 73.3-12       | 9          |              |      |            |               |      |           |
| TPH 8015M                            | mg,    | 'kg             | Analyze    | d 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    | % 37.6-14       | 7          |              |      |            |               |      |           |

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\*=Accredited Analyte

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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: Project Number: CORAZON ST UNIT #5H

oject 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-7 A 1' (H901844-03)

| BTEX 8021B                           | mg/    | 'kg             | Analyze    | d 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 (PIL | 93.5   | % 73.3-12       | 9          |              |      |            |               |      |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d 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        | )          |              |      |            |               |      |           |
|                                      | 72.1   | 70 71-172       | -          |              |      |            |               |      |           |

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Celeg E Keene

Celey D. Keene, Lab Director/Quality Manager



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: Project Number: CORAZON ST UNIT #5H

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-8 A 1' (H901844-04)

| BTEX 8021B                           | mg/    | 'kg             | Analyze    | d By: ms     |      |            | <u> </u>      |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| 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 (PIL | 95.3   | % 73.3-12       | 9          |              |      |            |               |      |           |
| TPH 8015M                            | mg/    | 'kg             | Analyze    | d 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    | % 37.6-14       | 7          |              |      |            |               |      |           |

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\*=Accredited Analyte

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Celeg & Keens

Celey D. Keene, Lab Director/Quality Manager



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: Project Number: CORAZON ST UNIT #5H

Project Location:

700778.119.01 COG - LEA CO NM Sampling Date:

05/21/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

| BTEX 8021B                           | mg/    | kg              | Analyze    | d 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 (PIL | 103 5  | % 73.3-12       | 9          |              |      |            |               | ,    |           |
| TPH 8015M                            | mg,    | kg              | Analyze    | d 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    | % 37.6-14       | 17         |              |      |            |               |      |           |

# Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Kreene

Celey D. Keene, Lab Director/Quality Manager



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

Received:

05/22/2019

Reported:

Project Name: Project Number: CORAZON ST UNIT #5H

Project Location:

05/23/2019

700778.119.01

COG - LEA CO NM

Sampling Date:

05/21/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

| BTEX 8021B                           | mg/    | 'kg             | Analyze    | d 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 (PIL | 94.4   | % 73.3-12       | 9          |              |      |            |               |      |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d 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   | % 37.6-14       | !7         |              |      |            |               |      |           |

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

Received:

05/22/2019

Reported:

DTEV 00048

05/23/2019

Project Name:

CORAZON ST UNIT #5H

Project Number:

700778.119.01

Project Location:

Sampling Date:

05/21/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

COG - LEA CO NM

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

| BTEX 8021B                           | mg/    | kg              | Analyze    | d 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 (PIL | 98.0   | % 73.3-12       | 9          |              |   |            |               |      |           |
| TPH 8015M                            | mg/    | kg              | Analyze    | d 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 9  | 6 37.6-14       | 7          |              |   |            |               |      |           |

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Celly & Kenne



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: Project Location:

COG - LEA CO NM

700778.119.01

Sampling Date:

05/21/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d 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 (PIL | 95.0   | % 73.3-12       | 9          |              |      |            |               |      |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d 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        | ?          |              |      |            |               |      |           |
|                                      |        |                 |            |              |      |            |               |      |           |

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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 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  |

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Celeg & Kenne



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

|                  |                                    | Class Class REMARKS:  | 1 04:1541 - NO 1   |
|------------------|------------------------------------|---|--|
|                  | Fax Result: ☐ Yes                  | )   | 1) 1/11 5-22-17  |
| □ No             | III:                               | ⊣   | Relinquished 联介 // // Date: Re   |
|                  | bsidiarles,<br>serwise.            | aldanation concequental damagee, including without limitation, business interruptions, loss of use, or loss of peofis incurred by elient, its subsidiation the business of whether such dating based upon any of the above stated reasons or otherwise. | sevice. In na event shall Cardinal be liable for incidental or concequental damagoe, including without finitation, business interruptions, loss of use, or loss of peofis incurred by elient, its subcidiation, afficiates or successors arbitra, out of or related to the performance of southest hereunded by Cardinal, requidees of whether such dains is based upon any of the above stated reasons or otherwise.  |
|                  | ent for the<br>n of the applicable | n atising whether based in contract or fort, shall be limited to the amount paid by the ci<br>I walved unless made in writing and received by Cordinal within 30 days after completi  | Figure 2. The second of the second se |
|                  |                                    |   |  |
|                  |                                    |   |  |
|                  |                                    | 3,10  | . S- 10A1'   |
|                  | 0                                  | 3:00  | 75-101:  |
|                  | 0                                  | ):50  | 6 5-12A 1'   |
|                  | 0                                  | 0H:C  | V = 1 = 2  |
|                  |                                    | 2:.30   | 4 S-8A'  |
|                  |                                    | ot:6  | 35-74  |
|                  |                                    | 2:10  | 25-6A1.  |
|                  | \<br>\<br>\                        | 1 V 5 3 K 2:00  | S-5 A 1' - 6   |
|                  | TPH<br>BTEX                        | # CONTAINE GROUNDW/ WASTEWAT SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  | H901844  @RAB  |
|                  |                                    | TER   | C)OMP  |
|                  |                                    | MATRIX PRESERV. SAMPLING  |  |
|                  |                                    | Fax #:  | Sampler Name: MICHAEL COLLER   |
|                  |                                    | Phone #:  | Project Location: LEA COUNTY   |
|                  |                                    | State: Zip:   | Project Name: (DR #70) 5th   |
|                  |                                    | NCHO COL City:  | Project #: ] polls 119,01 Project Owner: Concho  |
|                  |                                    | ŧ   | Phone#: 575~ (3:- 6977 Fax 参   |
|                  |                                    | Zip: 8810 Atm: 1KE TAVAREZ  | State: NM  |
|                  |                                    | Company: (ONCHO   | Address: 408. W. TEXAS   |
|                  |                                    | P.O. #: 75077 B.119-01  | Project Manager: CHRIS JONES   |
| ANALYSIS REQUEST |                                    |   | Company Name: THLON LPE  |

j Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 Sample Condition Cool Intact 2 Yes 3 Yes No 1 No

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9

CHECKED BY: (Initials)

RUSH

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

0分:松山

Relinguished By:



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celes & Keene

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



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

o: (575) 745-8905

Received:

05/29/2019

Reported:

05/30/2019

Project Name:

CORAZON ST UNIT #5H

Project Number: Project Location:

700778.119.01

COG - LEA CO NM

Sampling Date: Sampling Type: 05/29/2019

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

| BTEX 8021B                           | mg/    | kg              | Analyze    | d 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 (PIL | 92.2   | % 73.3-12       | 9          |              |      |            |               |        |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d 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        | 2          |              |      |            |               |        |           |
|                                      |        |                 |            |              |      |            |               |        |           |

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\*=Accredited Analyte

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

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: Sample Received By: Cool & Intact

Tamara Oldaker

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

| BTEX 8021B                           | mg/    | 'kg             | Analyze    | d 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 (PIL | 94.3   | % 73.3-12       | 9          |              |      |            |               |        |           |
| TPH 8015M                            | mg     | /kg             | Analyze    | d 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   | % 37.6-14       | 17         |              |      |            |               |        |           |

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\*=Accredited Analyte

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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             | Analyze    | d 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 (PIL | 92.0   | % 73.3-12       | 9          |              |      |            |               |        |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d 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    | % 37.6-14       | 17         |              |      |            |               |        |           |

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\*=Accredited Analyte

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Celey & Kuna



# **Notes and Definitions**

| S-06  | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.                                  |
|-------|---|
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.  |
| ND    | Analyte NOT DETECTED at or above the reporting limit  |
| RPD   | Relative Percent Difference   |
| **    | Samples not received at proper temperature of 6°C or below.   |
| ***   | Insufficient time to reach temperature.   |
| -     | Chloride by SM4500Cl-B does not require samples be received at or below 6°C   |
|       | Samples reported on an as received basis (wet) unless otherwise noted on report   |

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Celeg & Keens



# CHAIN-OF-CUSTODY AND ANALYSIS: REQUEST

101 East Warland, Hobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476

| Company Name: TALON LPE  |  | OLTHS  |  | ANALYSIS REQUEST                        |
|--|--|--|--|---|
| 8  |  | 10.41,811001:#.O.A   |  | - 11                                    |
| Address: 408 W. TEXAS AUF  |  | Company: CONCHO  |  |   |
| City: A CTESIA State: NW   | Zip: 881m  | Attn: IKE TRUBREZ  | 7  |   |
| Phone #: 575 - 631 - 6977 Fax #:   |  | Address:   |  |   |
| Project #: 700778.119.01 Project Owner: CONCHO   | " CONCHO   | City:  |  |   |
| Project Name: Colescol 5H  |  | State: Zip:  |  |   |
| Project Location: LEA COUNTY   |  | Phone #:   |  |   |
| Sampler Name: MICHASC COULER   |  | Fax #:   |  |   |
| FOR LAB USE ONLY   | MATRIX   | PRESERV. SAMPLING  |  |   |
| H901886  | (G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE   | OTHER: ACID/BASE: ICE / COOL OTHER: DATE   | BTEX<br>TPH  |   |
| 5.182  | 1  | V 5/29/10  | 10:00.01   |   |
| 1 5 5 3 2 1 V  |  | _  | 10:104   |   |
| 25 - 11 B 21   |  |  | 10:00:01   |   |
|  |  |  |  |   |
|  |  |  |  |   |
|  |  |  |  |   |
| review for the control of the contro | iny daim arising wateror based in contract<br>decencel walved unless made in writing and<br>3 without limitation, business interruptions, i<br>bardinal, requadless of whether such cialm is | or tor, shall be limited to the amount paid to received by Cardina's within 30 days after o cas of fue, or less of profits incurred by site to based then any of the above stated reason | y the client for the applicable or the applicable of the applicable of the applicable of the subsidiaries, are or otherwise. |   |
| Relinquished By Date: 19.19  | Received By:   | Maken 17   | ult: D Yes   | ☐ No  Add'l Phone #: ☐ No  Add'l Fax #: |
| Reflinguished By:  Date:  Time:  | Received By:   |  | Rust   |   |
| Delivered By: (Circle One)   | Sample Condition<br>Cool Intact  | on CHECKED BY:<br>(Initials)   | ,  |   |
| Sampler-UPS - Bus - Other: 4.3 #9  | ≥ §<br>□□  | - Y  |  |   |

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