

| | |
|----------------|---------------|
| Incident ID | nRM2014240786 |
| 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? | 180 (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

| | |
|----------------|---------------|
| Incident ID | nRM2014240786 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: Dale Woodall

Title: Env. Professional

Signature: Dale Woodall

Date: 3/15/2023

email: dale.woodall@dnv.com

Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon

Date: 03/15/2023

| | |
|----------------|---------------|
| Incident ID | nRM2014240786 |
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Closure

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

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

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

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

Printed Name: Dale Woodall

Title: Env. Professional

Signature: Dale Woodall

Date: 3/15/2023

email: dale.woodall@dvn.com

Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon

Date: 03/15/2023

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: _____

ADDENDUM

Location name: Arcturus 18 Fed #2H

OCD Spill Number: nRM2014240786

Spill date: 1/6/2020

From: Dale Woodall, Devon Energy

Date: 3/15/2023

Since the Atkins report for the above referenced spill was written (submitted to the NM OCD on 06/08/2020), there has been an update in the status of the PODs for the location.

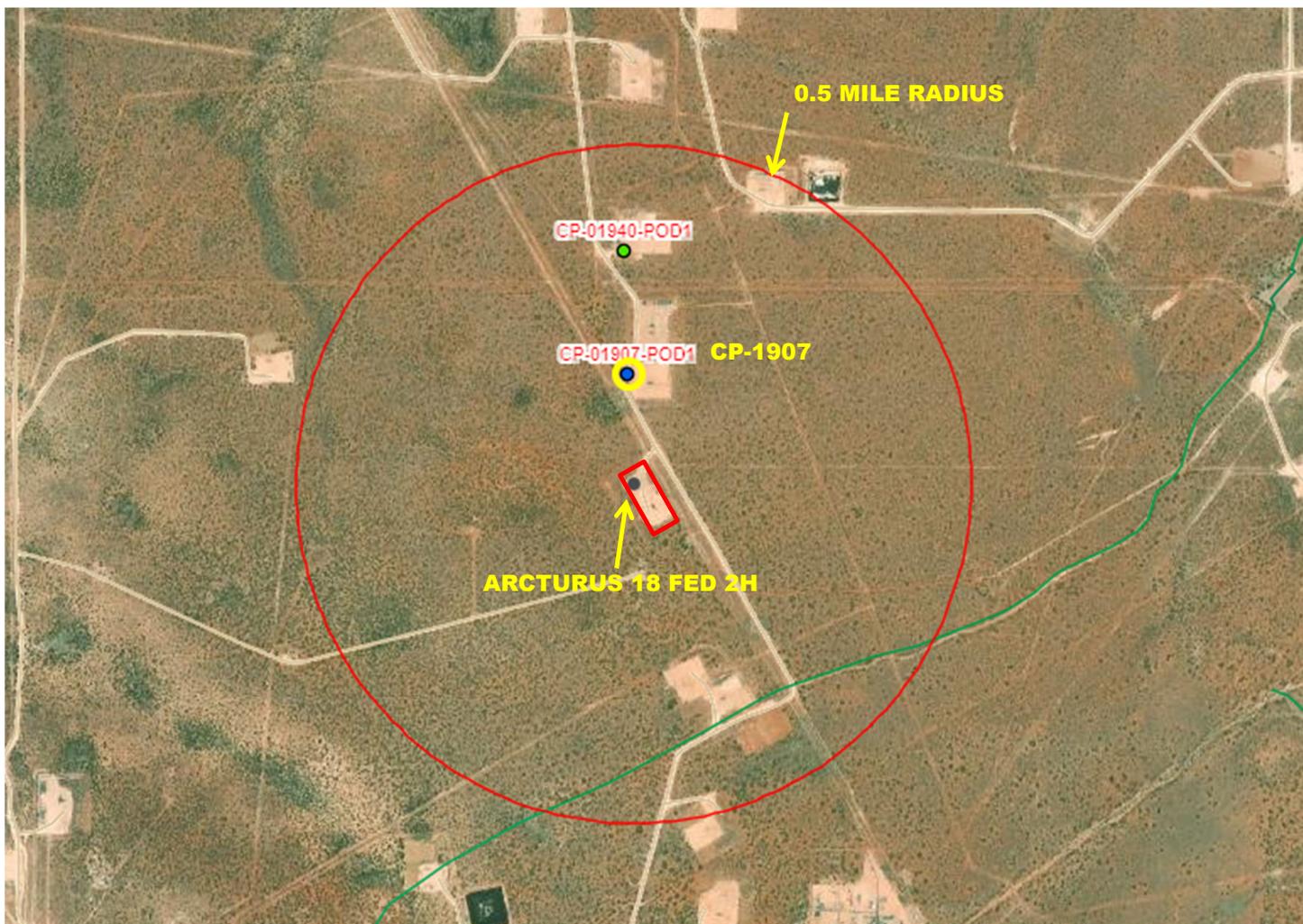
A review of New Mexico Office of the State Engineers (OSE) online water well database (New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/).

One pod location is within 0.5 miles of the location and are less than 25 years old.

CP-1907 POD 1 (installed in 2022) did not encounter groundwater at 55 feet and is 0.16 miles north of the location

The spill was remediated to criteria for DTW of less than 100 feet bgs.

Boring log of the well CP-1907 is attached.



Cp-1907- POD1 (DTW > 55 FEET) = 0.19 miles from location (7/13/2022)

SOURCE: OSE NM POD LOCATON GIS MAP

| | |
|---------------------------------------|---------------|
| FIGURE 1: NM OSE POD LOCATIONS | |
| ARCTURUS 18 FED 2H | |
| 32.663147° -103.901230° | |
| drawn by: RDW | Date: 03/2023 |



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|--|--|------------------------------------|---|--|---|---|--------------------------------|--------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD 1 (TW-1) | | WELL TAG ID NO. N/A | | OSE FILE NO(S). CP-1907 | | | |
| | WELL OWNER NAME(S) Devon Energy | | | | PHONE (OPTIONAL) 575-748-1838 | | | |
| | WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy | | | | CITY Artesia | STATE NM | ZIP 88210 | |
| | WELL LOCATION (FROM GPS) | DEGREES 32 | | MINUTES 39 | SECONDS 55.76 | * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 | | |
| | | LATITUDE N | | LONGITUDE 103 54 4.95 W | | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE NE Sec.18 T19S R31S NMPM | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 7/13/2022 | DRILLING ENDED 7/13/2022 | DEPTH OF COMPLETED WELL (FT) Temporary Well | BORE HOLE DEPTH (FT) ±55 | DEPTH WATER FIRST ENCOUNTERED (FT) N/A | | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A | DATE STATIC MEASURED 7/13/2022, 7/1/2022 | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | CHECK HERE IF FITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 55 | ±6.5 | Boring-HSA | -- | -- | -- | -- |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
| | FROM | TO | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

OSE 011 AUG 11 2022 P=0311

| | | | |
|-----------------------------------|----------------------------|--|--|
| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Version 01/28/2022) | |
| FILE NO. CP-1907-POD1 TW-1 | POD NO. 1 | TRN NO. 726167 | |
| LOCATION 19.31.18.422 | WELL TAG ID NO. --- | PAGE 1 OF 2 | |

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Remediation and Closure Report

Arcturus 18 Federal #2H
Eddy County, NM
API # 30-015-38390

Prepared For:

Devon Energy Production Company
6488 Seven Rivers Hwy
Artesia, NM 88210

Prepared By:

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

March 31, 2020

talonlpe.com • Toll Free: (866) 742-0742

Mr. Jim Amos
Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remediation and Closure Report**
Arcturus 18 Federal #2H
Eddy County, NM
API # 30-015-38390

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Production Company (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The incident description, soil sampling results, remedial actions, and closure requests are presented herein.

Site Information

The Arcturus 18 Federal #2H is located approximately twenty-five (25) miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter H, Section 18, Township 19 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.6631493 North and -103.9011417 West. A Site Map 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 Maljamar and palomas fine sand, 0 to 3 percent slopes. See [Appendix II](#) for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is eloian and piedmont deposits, Holocene to middle Pleistocene in age. Drainage courses in this area are well drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 180-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is not located within a high potential Karst area.

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

| Approximate Depth to Groundwater | 180 Feet/BGS |
|----------------------------------|--------------|
|----------------------------------|--------------|

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

Because the release did not occur in any of these areas and the depth to groundwater is greater than 100-feet, based upon the site characterization for this project the clean up criteria is as follows:

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

Incident Description

On January 6, 2020, broken bolts on the polish rod caused a stuffing box release. Approximately 0.16 barrels (bbls) of crude oil and 11.027 bbls of produced water were released onto the well pad. All fluids remained on location. A vac truck subsequently recovered 10 bbls of fluids. Site maps are presented in [Appendix I](#).

Talon mobilized personnel and equipment to begin site assessment and remediation activities. Based upon the results of our sampling results, only the impacted area in the vicinity of sample location S-6 was excavated utilizing a backhoe. Confirmation samples were collected from the sidewalls of the excavation to ensure that the NMOCD clean up criteria levels had been achieved.

Soil Sampling

2-19-20 Soil Sample Laboratory Results

| Sample ID | Sample Date | Depth (BGS) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | CI mg/kg |
|---|-------------|-------------|------------|---------------|------------------------------------|-----------|-----------|-----------------|--------------|
| NMOCD Table 1 Closure Criteria 19.15.29 NMAC | | | 50 mg/kg | 10 mg/kg | DRO + GRO combined = 1000 mg/kg | | | 2500 mg/kg | 20,000 mg/kg |
| S-1 | 2/19/2020 | 0-1' | ND | ND | ND | ND | ND | ND | 490 |
| | | 1-2' R | ND | ND | ND | ND | ND | ND | ND |
| S-2 | | 0-1' | ND | ND | ND | 350 | 240 | 590 | 2000 |
| | | 2' | ND | ND | ND | ND | ND | ND | 840 |
| | | 3' | ND | ND | ND | ND | ND | ND | 980 |
| S-3 | | 0-1' | ND | ND | ND | 17 | ND | 17 | 140 |
| | | 2' | ND | ND | ND | ND | ND | ND | ND |
| | | 3' R | ND | ND | ND | ND | ND | ND | ND |
| S-4 | | 0-1' | ND | ND | ND | 26 | ND | 26 | 2500 |
| | | 2' | ND | ND | ND | ND | ND | ND | 72 |
| | | 3' | ND | ND | ND | ND | ND | ND | 120 |
| | | 4' | ND | ND | ND | ND | ND | ND | 150 |
| S-5 | | 0-1' | ND | ND | ND | ND | ND | ND | ND |
| | | 2' | ND | ND | ND | ND | ND | ND | 65 |
| | | 3' | ND | ND | ND | ND | ND | ND | 110 |
| | | 4 | ND | ND | ND | ND | ND | ND | 120 |
| S-6 | | 0-1' | ND | ND | ND | 3500 | 13000 | 16500 | ND |
| | | 2' | ND | ND | ND | ND | ND | ND | 63 |
| | | 3' R | ND | ND | ND | ND | ND | ND | 80 |
| S-7 | | 0-1' | ND | ND | ND | 17 | ND | 17 | 74 |
| | | 2' | ND | ND | ND | ND | ND | ND | ND |
| | | 3' | ND | ND | ND | ND | ND | ND | ND |
| | | 4' | ND | ND | ND | ND | ND | ND | 61 |
| S-8 | | 0-1' | ND | ND | ND | ND | ND | ND | ND |
| | | 2' | ND | ND | ND | ND | ND | ND | ND |
| | | 3' | ND | ND | ND | ND | ND | ND | ND |
| | | 4' | ND | ND | ND | ND | ND | ND | ND |
| S-9 | | 0-1' | ND | ND | ND | 290 | 210 | 500 | 120 |
| | | 2' | ND | ND | ND | ND | ND | ND | 530 |
| | | 3' R | ND | ND | ND | ND | ND | ND | 950 |
| S-10 | | 0-1 | ND | ND | ND | 37 | 56 | 93 | 2600 |
| | | 2' | ND | ND | ND | ND | ND | ND | 150 |
| | | 3' R | ND | ND | ND | ND | ND | ND | 220 |
| S-11 | | 0-1' | ND | ND | ND | 140 | 110 | 250 | 260 |
| | | 2' | ND | ND | ND | ND | ND | ND | ND |
| | | 3' | ND | ND | ND | ND | ND | ND | ND |
| | | 4' | ND | ND | ND | ND | ND | ND | ND |
| S-12 | | 0-1' | ND | ND | ND | 110 | 87 | 197 | 180 |
| | | 2' | ND | ND | ND | ND | ND | ND | ND |
| | | 3' | ND | ND | ND | ND | ND | ND | ND |
| | | 4' | ND | ND | ND | ND | ND | ND | ND |
| BG | | 0' | ND | ND | ND | ND | ND | ND | ND |

ND-Analyte Not Detected

3-20-20 Confirmation Soil Sample Laboratory Results

| Sample ID | Sample Date | Depth (BGS) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg |
|---|-------------|-------------|------------|---------------|------------------------------------|-----------|-----------|-----------------|
| NMOCD Table 1 Closure Criteria 19.15.29 NMAC | | | 50 mg/kg | 10 mg/kg | DRO + GRO combined = 1000 mg/kg | | | 2500 mg/kg |
| S-6 A Composite | 3/20/2020 | 1' | -- | -- | ND | 530 | 370 | 900 |

ND-Analyte Not Detected, -- Analyte Not Tested

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

Remedial Actions

- The impacted areas in the vicinity of S-6 was excavated to a depth of 1.0-foot BGSE Laboratory analytical results from confirmation sidewall composite soil samples indicated that TPH concentrations were below NMOCD Closure Criteria.
- The impacted stained area on location was surface scraped and back dragged utilizing a backhoe.
- All excavated soil was transported to Lea Land, LLC, an NMOCD approved soil waste disposal facility.
- The excavated area was backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- Final C-141 is attached in [Appendix III](#)

Closure

Based on this site characterization, remedial actions and analytical results, we request that no further actions be required and that closure with regard to the attached incident be granted.

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

Respectfully submitted,

TALON/LPE



Chris Jones
Environmental Project Manager

David J. Adkins
Digitally signed by David J. Adkins
DN: cn=David J. Adkins, o=Talon/LPE, ou=District Manager, email=David.Adkins@talonlpe.com, c=US
Date: 2023.03.15 16:13:11 -0500

David J. Adkins
District Manager

Attachments:

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



APPENDIX I

SITE MAP

KARST MAP

TOPO MAP

LOCATION MAP

Arcturus 18 Fed #2H
Devon Energy Production Company
Eddy County, NM
API 30-015-38390
Site Map

Google Earth

© 2020 Google



Legend

- 1' excavation
- Impacted Area
- Sample

90 ft



Arcturus 18 Fed #2H
Devon Energy Production Company
Eddy County, NM
API 30-015-38390
Karst Map

Legend

-  High
-  Low
-  Medium

Arcturus 18 Fed 2H

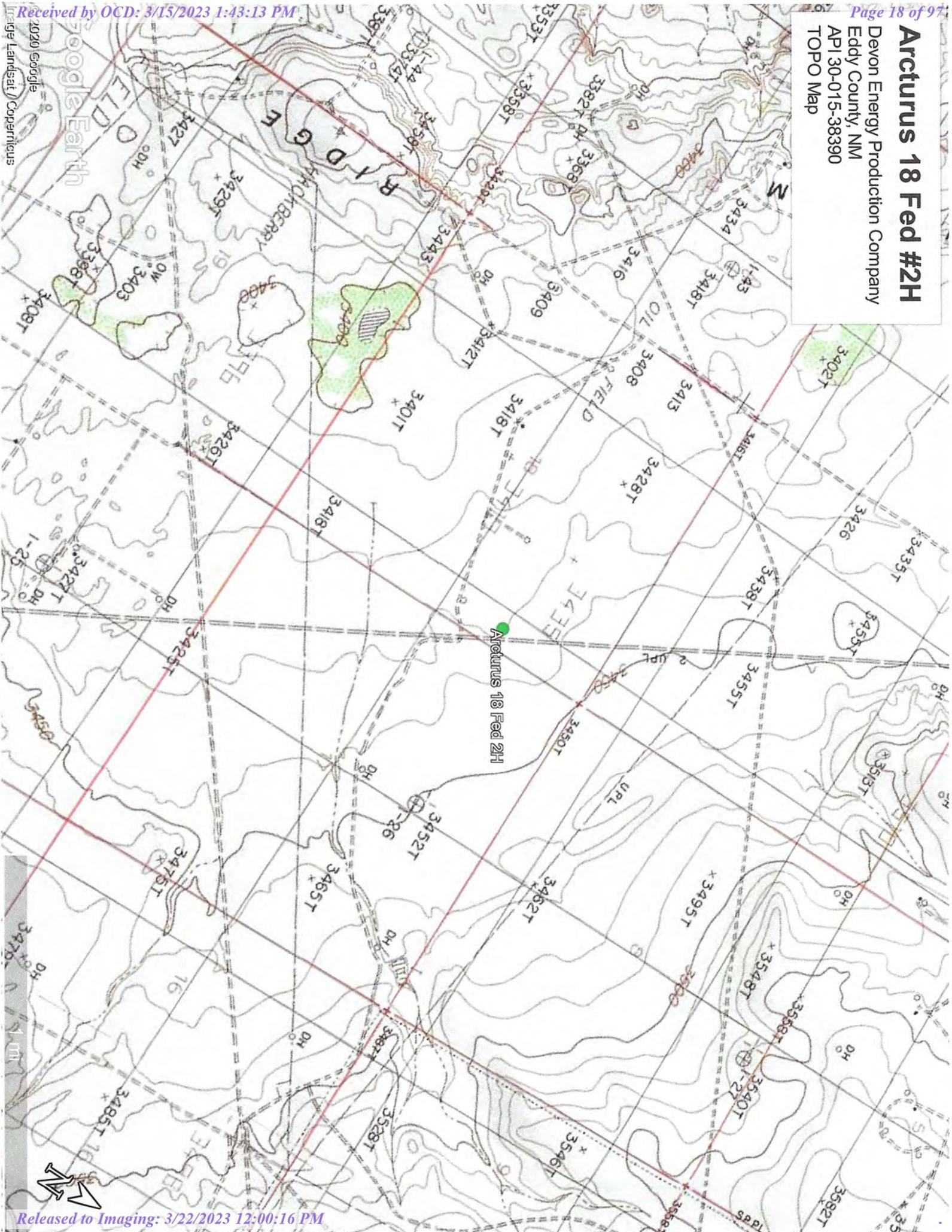
Google Earth

1 mi



Arcturus 18 Fed #2H
Devon Energy Production Company
Eddy County, NM
API 30-015-38390
TOPO Map

© 2020 Google
Image Landsat / Copernicus



Arcturus 18 Fed #2H
Devon Energy Production Company
Eddy County, NM
API 30-015-38390
Location Map

© 2020 Google
Google Earth
Imagery Landsat / Copernicus





APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

| POD Number | POD Code | Sub-basin | County | Q | Q | Q | Q | Sec | Tws | Rng | X | Y | Distance | WellDepth | Average Depth to Water | Minimum Depth | Maximum Depth | Water Column |
|---------------|----------|-----------|--------|---|----|-----|-----|--------|----------|------|-----|-----|----------|-----------|------------------------|---------------|---------------|--------------|
| CP 00873 POD1 | CP | LE | 1 | 1 | 19 | 19S | 31E | 601772 | 3613147* | 1839 | 340 | 180 | 160 | 180 feet | 180 feet | 180 feet | | |

Average Depth to Water: 180 feet
Minimum Depth: 180 feet
Maximum Depth: 180 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 603042.587

Northing (Y): 3614477.364

Radius: 2000

*UTM location was derived from PLSS - see Help

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

2/25/20 9:46 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes—Eddy Area, New Mexico

Eddy Area, New Mexico

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent
Minor components: 1 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Fan piedmonts, plains
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 12 inches: loamy fine sand
H2 - 12 to 58 inches: sandy clay loam
H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat):
 Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to slightly saline
 (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B

Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 15, Sep 15, 2019

National Flood Hazard Layer FIRMette



24°02.48'N



USGS The National Map: Orthoimagery. Data refreshed April, 2019.

32°39'32.19"N

Legend

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

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A1, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

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

OTHER AREAS

- NO SCREEN
- Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

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

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/23/2020 at 1:29:26 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



APPENDIX III

FINAL C-141

| | |
|----------------|---------------|
| Incident ID | nRM2014240786 |
| 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? | 180 (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

| | |
|----------------|---------------|
| Incident ID | nRM2014240786 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: Dale Woodall

Title: Env. Professional

Signature: *Dale Woodall*

Date: 3/15/2023

email: dale.woodall@dnv.com

Telephone: 575-748-1838

OCD Only

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Page 6

| | |
|----------------|---------------|
| Incident ID | nRM2014240786 |
| District RP | |
| Facility ID | |
| Application ID | |

Closure

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

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

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

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

Printed Name: Dale Woodall

Title: Env. Professional

Signature: Dale Woodall

Date: 3/15/2023

email: dale.woodall@dvn.com

Telephone: 575-748-1838

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: Jennifer Nobui

Date: 03/22/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation



Photographic Documentation





APPENDIX V

LABORATORY DATA



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 02, 2020

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Arcturus 18 FED 2H

OrderNo.: 2002915

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 42 sample(s) on 2/22/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
 Lab Order 2002915
 Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-1 0-1'
Project: Arcturus 18 FED 2H **Collection Date:** 2/19/2020 8:00:00 AM
Lab ID: 2002915-001 **Matrix:** SOIL **Received Date:** 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 490 | 60 | | mg/Kg | 20 | 2/25/2020 10:06:09 PM | 50663 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 2/26/2020 10:00:39 AM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 2/26/2020 10:00:39 AM | 50641 |
| Surr: DNOP | 127 | 55.1-146 | | %Rec | 1 | 2/26/2020 10:00:39 AM | 50641 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/25/2020 10:39:09 PM | 50628 |
| Surr: BFB | 83.3 | 66.6-105 | | %Rec | 1 | 2/25/2020 10:39:09 PM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/25/2020 10:39:09 PM | 50628 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/25/2020 10:39:09 PM | 50628 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/25/2020 10:39:09 PM | 50628 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/25/2020 10:39:09 PM | 50628 |
| Surr: 4-Bromofluorobenzene | 92.3 | 80-120 | | %Rec | 1 | 2/25/2020 10:39:09 PM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 2' R

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 8:05:00 AM

Lab ID: 2002915-002

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/25/2020 11:07:53 PM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 2/26/2020 11:10:47 AM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 2/26/2020 11:10:47 AM | 50641 |
| Surr: DNOP | 96.8 | 55.1-146 | | %Rec | 1 | 2/26/2020 11:10:47 AM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/25/2020 11:48:27 PM | 50628 |
| Surr: BFB | 82.7 | 66.6-105 | | %Rec | 1 | 2/25/2020 11:48:27 PM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/25/2020 11:48:27 PM | 50628 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/25/2020 11:48:27 PM | 50628 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/25/2020 11:48:27 PM | 50628 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/25/2020 11:48:27 PM | 50628 |
| Surr: 4-Bromofluorobenzene | 92.4 | 80-120 | | %Rec | 1 | 2/25/2020 11:48:27 PM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 8:15:00 AM

Lab ID: 2002915-003

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 2000 | 60 | | mg/Kg | 20 | 2/25/2020 11:20:14 PM | 50663 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | 350 | 9.5 | | mg/Kg | 1 | 2/27/2020 7:08:16 PM | 50641 |
| Motor Oil Range Organics (MRO) | 240 | 47 | | mg/Kg | 1 | 2/27/2020 7:08:16 PM | 50641 |
| Surr: DNOP | 148 | 55.1-146 | S | %Rec | 1 | 2/27/2020 7:08:16 PM | 50641 |
| Analyst: BRM | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 2/26/2020 12:11:35 AM | 50628 |
| Surr: BFB | 79.9 | 66.6-105 | | %Rec | 1 | 2/26/2020 12:11:35 AM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 2/26/2020 12:11:35 AM | 50628 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 12:11:35 AM | 50628 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 12:11:35 AM | 50628 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 2/26/2020 12:11:35 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 88.7 | 80-120 | | %Rec | 1 | 2/26/2020 12:11:35 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Analytical Report
 Lab Order 2002915
 Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-2 2'
Project: Arcturus 18 FED 2H **Collection Date:** 2/19/2020 8:20:00 AM
Lab ID: 2002915-004 **Matrix:** SOIL **Received Date:** 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 840 | 60 | | mg/Kg | 20 | 2/25/2020 11:32:34 PM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 2/26/2020 11:57:44 AM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 2/26/2020 11:57:44 AM | 50641 |
| Surr: DNOP | 96.8 | 55.1-146 | | %Rec | 1 | 2/26/2020 11:57:44 AM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 2/26/2020 12:34:37 AM | 50628 |
| Surr: BFB | 82.0 | 66.6-105 | | %Rec | 1 | 2/26/2020 12:34:37 AM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 12:34:37 AM | 50628 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 12:34:37 AM | 50628 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 12:34:37 AM | 50628 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/26/2020 12:34:37 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 91.7 | 80-120 | | %Rec | 1 | 2/26/2020 12:34:37 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 3'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 8:25:00 AM

Lab ID: 2002915-005

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 980 | 60 | | mg/Kg | 20 | 2/25/2020 11:44:55 PM | 50663 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 2/26/2020 12:21:12 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 2/26/2020 12:21:12 PM | 50641 |
| Surr: DNOP | 134 | 55.1-146 | | %Rec | 1 | 2/26/2020 12:21:12 PM | 50641 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Surr: BFB | 79.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 2/26/2020 12:57:40 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 89.8 | 80-120 | | %Rec | 1 | 2/26/2020 12:57:40 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 8:35:00 AM

Lab ID: 2002915-006

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 140 | 60 | | mg/Kg | 20 | 2/25/2020 11:57:15 PM | 50663 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | 17 | 9.5 | | mg/Kg | 1 | 2/26/2020 12:44:37 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 2/26/2020 12:44:37 PM | 50641 |
| Surr: DNOP | 141 | 55.1-146 | | %Rec | 1 | 2/26/2020 12:44:37 PM | 50641 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 1:20:40 AM | 50628 |
| Surr: BFB | 78.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 1:20:40 AM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 1:20:40 AM | 50628 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 1:20:40 AM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 1:20:40 AM | 50628 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 2/26/2020 1:20:40 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 88.3 | 80-120 | | %Rec | 1 | 2/26/2020 1:20:40 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | |

Analytical Report
 Lab Order 2002915
 Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-3 2'
Project: Arcturus 18 FED 2H **Collection Date:** 2/19/2020 8:40:00 AM
Lab ID: 2002915-007 **Matrix:** SOIL **Received Date:** 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 12:09:36 AM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 2/26/2020 1:08:09 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 2/26/2020 1:08:09 PM | 50641 |
| Surr: DNOP | 96.6 | 55.1-146 | | %Rec | 1 | 2/26/2020 1:08:09 PM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 1:43:40 AM | 50628 |
| Surr: BFB | 81.8 | 66.6-105 | | %Rec | 1 | 2/26/2020 1:43:40 AM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 1:43:40 AM | 50628 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 1:43:40 AM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 1:43:40 AM | 50628 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/26/2020 1:43:40 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 91.9 | 80-120 | | %Rec | 1 | 2/26/2020 1:43:40 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report
 Lab Order 2002915
 Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 3' R

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 8:45:00 AM

Lab ID: 2002915-008

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 12:21:56 AM | 50663 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 2/26/2020 1:31:40 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 2/26/2020 1:31:40 PM | 50641 |
| Surr: DNOP | 96.4 | 55.1-146 | | %Rec | 1 | 2/26/2020 1:31:40 PM | 50641 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 2:06:39 AM | 50628 |
| Surr: BFB | 80.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 2:06:39 AM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 2:06:39 AM | 50628 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 2:06:39 AM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 2:06:39 AM | 50628 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 2/26/2020 2:06:39 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 91.0 | 80-120 | | %Rec | 1 | 2/26/2020 2:06:39 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-4 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 8:55:00 AM

Lab ID: 2002915-009

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-----------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 2500 | 150 | | mg/Kg | 50 | 2/27/2020 2:04:04 PM | Analyst: JMT 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | 26 | 9.0 | | mg/Kg | 1 | 2/28/2020 8:52:55 AM | Analyst: CLP 50641 |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 2/28/2020 8:52:55 AM | 50641 |
| Surr: DNOP | 91.9 | 55.1-146 | | %Rec | 1 | 2/28/2020 8:52:55 AM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 2/26/2020 2:29:38 AM | Analyst: NSB 50628 |
| Surr: BFB | 80.5 | 66.6-105 | | %Rec | 1 | 2/26/2020 2:29:38 AM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 2:29:38 AM | Analyst: NSB 50628 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 2:29:38 AM | 50628 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 2:29:38 AM | 50628 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 2/26/2020 2:29:38 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 91.1 | 80-120 | | %Rec | 1 | 2/26/2020 2:29:38 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 2002915
 Date Reported: 3/2/2020

CLIENT: Talon Artesia **Client Sample ID:** S-4 2'
Project: Arcturus 18 FED 2H **Collection Date:** 2/19/2020 9:05:00 AM
Lab ID: 2002915-010 **Matrix:** SOIL **Received Date:** 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 72 | 60 | | mg/Kg | 20 | 2/26/2020 1:11:19 AM | 50663 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 2/26/2020 2:18:50 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 2/26/2020 2:18:50 PM | 50641 |
| Surr: DNOP | 119 | 55.1-146 | | %Rec | 1 | 2/26/2020 2:18:50 PM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 3:15:31 AM | 50628 |
| Surr: BFB | 77.4 | 66.6-105 | | %Rec | 1 | 2/26/2020 3:15:31 AM | 50628 |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 3:15:31 AM | 50628 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 3:15:31 AM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 3:15:31 AM | 50628 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 2/26/2020 3:15:31 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 87.1 | 80-120 | | %Rec | 1 | 2/26/2020 3:15:31 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-4 3'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 9:10:00 AM

Lab ID: 2002915-011

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 120 | 60 | | mg/Kg | 20 | 2/26/2020 1:23:39 AM | 50663 |
| | | | | | | | Analyst: JMT |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 2/26/2020 2:42:21 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 2/26/2020 2:42:21 PM | 50641 |
| Surr: DNOP | 98.0 | 55.1-146 | | %Rec | 1 | 2/26/2020 2:42:21 PM | 50641 |
| | | | | | | | Analyst: CLP |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/26/2020 3:38:23 AM | 50628 |
| Surr: BFB | 80.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 3:38:23 AM | 50628 |
| | | | | | | | Analyst: NSB |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 3:38:23 AM | 50628 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 3:38:23 AM | 50628 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 3:38:23 AM | 50628 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/26/2020 3:38:23 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 91.2 | 80-120 | | %Rec | 1 | 2/26/2020 3:38:23 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-4 4'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 9:15:00 AM

Lab ID: 2002915-012

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 150 | 60 | | mg/Kg | 20 | 2/26/2020 1:36:00 AM | 50663 |
| | | | | | | | Analyst: JMT |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 2/26/2020 3:05:52 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 2/26/2020 3:05:52 PM | 50641 |
| Surr: DNOP | 99.7 | 55.1-146 | | %Rec | 1 | 2/26/2020 3:05:52 PM | 50641 |
| | | | | | | | Analyst: CLP |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 2/26/2020 4:01:17 AM | 50628 |
| Surr: BFB | 78.5 | 66.6-105 | | %Rec | 1 | 2/26/2020 4:01:17 AM | 50628 |
| | | | | | | | Analyst: NSB |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 4:01:17 AM | 50628 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 4:01:17 AM | 50628 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 4:01:17 AM | 50628 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 2/26/2020 4:01:17 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 89.0 | 80-120 | | %Rec | 1 | 2/26/2020 4:01:17 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-5 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 9:25:00 AM

Lab ID: 2002915-013

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 1:48:21 AM | 50663 |
| | | | | | | | Analyst: JMT |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 2/26/2020 3:29:31 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 2/26/2020 3:29:31 PM | 50641 |
| Surr: DNOP | 126 | 55.1-146 | | %Rec | 1 | 2/26/2020 3:29:31 PM | 50641 |
| | | | | | | | Analyst: CLP |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 2/26/2020 4:24:11 AM | 50628 |
| Surr: BFB | 78.6 | 66.6-105 | | %Rec | 1 | 2/26/2020 4:24:11 AM | 50628 |
| | | | | | | | Analyst: NSB |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 2/26/2020 4:24:11 AM | 50628 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 2/26/2020 4:24:11 AM | 50628 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 2/26/2020 4:24:11 AM | 50628 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 2/26/2020 4:24:11 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 88.4 | 80-120 | | %Rec | 1 | 2/26/2020 4:24:11 AM | 50628 |
| | | | | | | | Analyst: NSB |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-5 2'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 9:30:00 AM

Lab ID: 2002915-014

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 65 | 60 | | mg/Kg | 20 | 2/26/2020 11:42:43 AM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 2/26/2020 3:53:05 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 2/26/2020 3:53:05 PM | 50641 |
| Surr: DNOP | 93.8 | 55.1-146 | | %Rec | 1 | 2/26/2020 3:53:05 PM | 50641 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 2/26/2020 4:47:03 AM | 50628 |
| Surr: BFB | 79.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 4:47:03 AM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 2/26/2020 4:47:03 AM | 50628 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 4:47:03 AM | 50628 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 4:47:03 AM | 50628 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 2/26/2020 4:47:03 AM | 50628 |
| Surr: 4-Bromofluorobenzene | 91.1 | 80-120 | | %Rec | 1 | 2/26/2020 4:47:03 AM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-5 3'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 9:35:00 AM

Lab ID: 2002915-015

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 110 | 60 | | mg/Kg | 20 | 2/26/2020 12:19:46 PM | 50687 |
| | | | | | | | Analyst: JMT |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 2/26/2020 4:40:18 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 2/26/2020 4:40:18 PM | 50641 |
| Surr: DNOP | 94.6 | 55.1-146 | | %Rec | 1 | 2/26/2020 4:40:18 PM | 50641 |
| | | | | | | | Analyst: CLP |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 2/26/2020 1:44:35 PM | 50628 |
| Surr: BFB | 80.9 | 66.6-105 | | %Rec | 1 | 2/26/2020 1:44:35 PM | 50628 |
| | | | | | | | Analyst: NSB |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 2/26/2020 1:44:35 PM | 50628 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 2/26/2020 1:44:35 PM | 50628 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 2/26/2020 1:44:35 PM | 50628 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 2/26/2020 1:44:35 PM | 50628 |
| Surr: 4-Bromofluorobenzene | 90.6 | 80-120 | | %Rec | 1 | 2/26/2020 1:44:35 PM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-5 4'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 9:40:00 AM

Lab ID: 2002915-016

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 120 | 60 | | mg/Kg | 20 | 2/26/2020 12:32:08 PM | 50687 |
| | | | | | | | Analyst: JMT |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 2/26/2020 5:03:58 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 2/26/2020 5:03:58 PM | 50641 |
| Surr: DNOP | 88.7 | 55.1-146 | | %Rec | 1 | 2/26/2020 5:03:58 PM | 50641 |
| | | | | | | | Analyst: CLP |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/26/2020 2:08:00 PM | 50628 |
| Surr: BFB | 85.0 | 66.6-105 | | %Rec | 1 | 2/26/2020 2:08:00 PM | 50628 |
| | | | | | | | Analyst: NSB |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 2:08:00 PM | 50628 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 2:08:00 PM | 50628 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 2:08:00 PM | 50628 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/26/2020 2:08:00 PM | 50628 |
| Surr: 4-Bromofluorobenzene | 94.4 | 80-120 | | %Rec | 1 | 2/26/2020 2:08:00 PM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-6 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 9:50:00 AM

Lab ID: 2002915-017

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|-----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 12:44:29 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | 3500 | 940 | | mg/Kg | 100 | 2/27/2020 7:30:12 PM | 50641 |
| Motor Oil Range Organics (MRO) | 13000 | 4700 | | mg/Kg | 100 | 2/27/2020 7:30:12 PM | 50641 |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 100 | 2/27/2020 7:30:12 PM | 50641 |
| Analyst: BRM | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 2:31:29 PM | 50628 |
| Surr: BFB | 79.3 | 66.6-105 | | %Rec | 1 | 2/26/2020 2:31:29 PM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 2:31:29 PM | 50628 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 2:31:29 PM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 2:31:29 PM | 50628 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 2/26/2020 2:31:29 PM | 50628 |
| Surr: 4-Bromofluorobenzene | 88.2 | 80-120 | | %Rec | 1 | 2/26/2020 2:31:29 PM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 2002915
 Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-6 2'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 9:55:00 AM

Lab ID: 2002915-018

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 63 | 60 | | mg/Kg | 20 | 2/26/2020 1:21:31 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 2/27/2020 7:52:04 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 2/27/2020 7:52:04 PM | 50641 |
| Surr: DNOP | 94.6 | 55.1-146 | | %Rec | 1 | 2/27/2020 7:52:04 PM | 50641 |
| Analyst: BRM | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Surr: BFB | 82.2 | 66.6-105 | | %Rec | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Surr: 4-Bromofluorobenzene | 89.2 | 80-120 | | %Rec | 1 | 2/26/2020 2:54:59 PM | 50628 |
| Analyst: NSB | | | | | | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-6 3' R

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:00:00 AM

Lab ID: 2002915-019

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 80 | 60 | | mg/Kg | 20 | 2/26/2020 1:33:52 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 2/26/2020 6:14:26 PM | 50641 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 2/26/2020 6:14:26 PM | 50641 |
| Surr: DNOP | 96.2 | 55.1-146 | | %Rec | 1 | 2/26/2020 6:14:26 PM | 50641 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 3:18:11 PM | 50628 |
| Surr: BFB | 85.8 | 66.6-105 | | %Rec | 1 | 2/26/2020 3:18:11 PM | 50628 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 3:18:11 PM | 50628 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 3:18:11 PM | 50628 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 3:18:11 PM | 50628 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/26/2020 3:18:11 PM | 50628 |
| Surr: 4-Bromofluorobenzene | 95.9 | 80-120 | | %Rec | 1 | 2/26/2020 3:18:11 PM | 50628 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-7 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:10:00 AM

Lab ID: 2002915-020

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-----------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 74 | 60 | | mg/Kg | 20 | 2/26/2020 1:46:13 PM | Analyst: JMT 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | 17 | 9.5 | | mg/Kg | 1 | 2/26/2020 6:37:50 PM | Analyst: CLP 50641 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 2/26/2020 6:37:50 PM | 50641 |
| Surr: DNOP | 135 | 55.1-146 | | %Rec | 1 | 2/26/2020 6:37:50 PM | 50641 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/26/2020 3:41:45 PM | Analyst: NSB 50630 |
| Surr: BFB | 78.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 3:41:45 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 3:41:45 PM | Analyst: NSB 50630 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 3:41:45 PM | 50630 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 3:41:45 PM | 50630 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/26/2020 3:41:45 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 87.0 | 80-120 | | %Rec | 1 | 2/26/2020 3:41:45 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 2002915
 Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-7 2'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:15:00 AM

Lab ID: 2002915-021

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 2:23:15 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 2/26/2020 7:47:46 PM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 2/26/2020 7:47:46 PM | 50642 |
| Surr: DNOP | 95.0 | 55.1-146 | | %Rec | 1 | 2/26/2020 7:47:46 PM | 50642 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 2/26/2020 4:52:07 PM | 50630 |
| Surr: BFB | 83.9 | 66.6-105 | | %Rec | 1 | 2/26/2020 4:52:07 PM | 50630 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 4:52:07 PM | 50630 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 4:52:07 PM | 50630 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 4:52:07 PM | 50630 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/26/2020 4:52:07 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 92.9 | 80-120 | | %Rec | 1 | 2/26/2020 4:52:07 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-7 3'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:20:00 AM

Lab ID: 2002915-022

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 2:35:36 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 2/26/2020 8:57:30 PM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 2/26/2020 8:57:30 PM | 50642 |
| Surr: DNOP | 93.3 | 55.1-146 | | %Rec | 1 | 2/26/2020 8:57:30 PM | 50642 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 6:01:50 PM | 50630 |
| Surr: BFB | 82.4 | 66.6-105 | | %Rec | 1 | 2/26/2020 6:01:50 PM | 50630 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 6:01:50 PM | 50630 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 6:01:50 PM | 50630 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 6:01:50 PM | 50630 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/26/2020 6:01:50 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 91.9 | 80-120 | | %Rec | 1 | 2/26/2020 6:01:50 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-7 4'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:25:00 AM

Lab ID: 2002915-023

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 61 | 60 | | mg/Kg | 20 | 2/26/2020 2:47:57 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.0 | | mg/Kg | 1 | 2/26/2020 9:20:42 PM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 2/26/2020 9:20:42 PM | 50642 |
| Surr: DNOP | 97.1 | 55.1-146 | | %Rec | 1 | 2/26/2020 9:20:42 PM | 50642 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 2/26/2020 7:35:19 PM | 50630 |
| Surr: BFB | 78.2 | 66.6-105 | | %Rec | 1 | 2/26/2020 7:35:19 PM | 50630 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 2/26/2020 7:35:19 PM | 50630 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 7:35:19 PM | 50630 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 7:35:19 PM | 50630 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 2/26/2020 7:35:19 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 86.8 | 80-120 | | %Rec | 1 | 2/26/2020 7:35:19 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-8 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:35:00 AM

Lab ID: 2002915-024

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|------------------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 3:00:18 PM | Analyst: JMT 50687 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 2/26/2020 9:43:55 PM | Analyst: CLP 50642 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 2/26/2020 9:43:55 PM | 50642 |
| Surr: DNOP | 125 | 55.1-146 | | %Rec | 1 | 2/26/2020 9:43:55 PM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 2/26/2020 7:58:40 PM | Analyst: NSB 50630 |
| Surr: BFB | 78.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 7:58:40 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 7:58:40 PM | Analyst: NSB 50630 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 7:58:40 PM | 50630 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 2/26/2020 7:58:40 PM | 50630 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/26/2020 7:58:40 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 87.6 | 80-120 | | %Rec | 1 | 2/26/2020 7:58:40 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 2002915
 Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-8 3'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:45:00 AM

Lab ID: 2002915-026

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 3:49:40 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 2/26/2020 10:53:26 PM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 2/26/2020 10:53:26 PM | 50642 |
| Surr: DNOP | 96.3 | 55.1-146 | | %Rec | 1 | 2/26/2020 10:53:26 PM | 50642 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/26/2020 8:45:27 PM | 50630 |
| Surr: BFB | 78.7 | 66.6-105 | | %Rec | 1 | 2/26/2020 8:45:27 PM | 50630 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 8:45:27 PM | 50630 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 8:45:27 PM | 50630 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 8:45:27 PM | 50630 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/26/2020 8:45:27 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 87.5 | 80-120 | | %Rec | 1 | 2/26/2020 8:45:27 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-8 4'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:50:00 AM

Lab ID: 2002915-027

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 4:02:02 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 2/26/2020 11:16:38 PM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 2/26/2020 11:16:38 PM | 50642 |
| Surr: DNOP | 99.0 | 55.1-146 | | %Rec | 1 | 2/26/2020 11:16:38 PM | 50642 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/26/2020 9:08:48 PM | 50630 |
| Surr: BFB | 79.3 | 66.6-105 | | %Rec | 1 | 2/26/2020 9:08:48 PM | 50630 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 9:08:48 PM | 50630 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 9:08:48 PM | 50630 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 9:08:48 PM | 50630 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 2/26/2020 9:08:48 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 88.8 | 80-120 | | %Rec | 1 | 2/26/2020 9:08:48 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-9 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 10:55:00 AM

Lab ID: 2002915-028

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 120 | 60 | | mg/Kg | 20 | 2/26/2020 4:14:23 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | 290 | 9.3 | | mg/Kg | 1 | 2/27/2020 8:14:02 PM | 50642 |
| Motor Oil Range Organics (MRO) | 210 | 47 | | mg/Kg | 1 | 2/27/2020 8:14:02 PM | 50642 |
| Surr: DNOP | 127 | 55.1-146 | | %Rec | 1 | 2/27/2020 8:14:02 PM | 50642 |
| Analyst: BRM | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 9:32:07 PM | 50630 |
| Surr: BFB | 79.8 | 66.6-105 | | %Rec | 1 | 2/26/2020 9:32:07 PM | 50630 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 9:32:07 PM | 50630 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 9:32:07 PM | 50630 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 9:32:07 PM | 50630 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 2/26/2020 9:32:07 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 89.5 | 80-120 | | %Rec | 1 | 2/26/2020 9:32:07 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-9 2'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 11:00:00 AM

Lab ID: 2002915-029

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 530 | 60 | | mg/Kg | 20 | 2/26/2020 4:26:44 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 2/27/2020 12:02:56 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 2/27/2020 12:02:56 AM | 50642 |
| Surr: DNOP | 96.7 | 55.1-146 | | %Rec | 1 | 2/27/2020 12:02:56 AM | 50642 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/26/2020 9:55:23 PM | 50630 |
| Surr: BFB | 79.3 | 66.6-105 | | %Rec | 1 | 2/26/2020 9:55:23 PM | 50630 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 9:55:23 PM | 50630 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 9:55:23 PM | 50630 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 9:55:23 PM | 50630 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/26/2020 9:55:23 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 89.1 | 80-120 | | %Rec | 1 | 2/26/2020 9:55:23 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-9 3' R

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 11:05:00 AM

Lab ID: 2002915-030

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 950 | 60 | | mg/Kg | 20 | 2/26/2020 4:39:05 PM | 50687 |
| Analyst: JMT | | | | | | | |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 2/27/2020 12:26:02 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 2/27/2020 12:26:02 AM | 50642 |
| Surr: DNOP | 97.0 | 55.1-146 | | %Rec | 1 | 2/27/2020 12:26:02 AM | 50642 |
| Analyst: CLP | | | | | | | |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/26/2020 10:18:39 PM | 50630 |
| Surr: BFB | 76.8 | 66.6-105 | | %Rec | 1 | 2/26/2020 10:18:39 PM | 50630 |
| Analyst: NSB | | | | | | | |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/26/2020 10:18:39 PM | 50630 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 10:18:39 PM | 50630 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/26/2020 10:18:39 PM | 50630 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/26/2020 10:18:39 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 86.5 | 80-120 | | %Rec | 1 | 2/26/2020 10:18:39 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

CLIENT: Talon Artesia

Client Sample ID: S-10 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 11:15:00 AM

Lab ID: 2002915-031

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | |
| Chloride | 2600 | 150 | | mg/Kg | 50 | 2/27/2020 2:16:25 PM | 50687 |
| | | | | | | | Analyst: JMT |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | |
| Diesel Range Organics (DRO) | 37 | 9.9 | | mg/Kg | 1 | 2/27/2020 12:49:08 AM | 50642 |
| Motor Oil Range Organics (MRO) | 56 | 49 | | mg/Kg | 1 | 2/27/2020 12:49:08 AM | 50642 |
| Surr: DNOP | 115 | 55.1-146 | | %Rec | 1 | 2/27/2020 12:49:08 AM | 50642 |
| | | | | | | | Analyst: CLP |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/26/2020 10:41:54 PM | 50630 |
| Surr: BFB | 80.1 | 66.6-105 | | %Rec | 1 | 2/26/2020 10:41:54 PM | 50630 |
| | | | | | | | Analyst: NSB |
| EPA METHOD 8021B: VOLATILES | | | | | | | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/26/2020 10:41:54 PM | 50630 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 10:41:54 PM | 50630 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/26/2020 10:41:54 PM | 50630 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/26/2020 10:41:54 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 90.7 | 80-120 | | %Rec | 1 | 2/26/2020 10:41:54 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|-----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. |
| | D | Sample Diluted Due to Matrix |
| | H | Holding times for preparation or analysis exceeded |
| | ND | Not Detected at the Reporting Limit |
| | PQL | Practical Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Analytical Report

Lab Order **2002915**

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-10 2'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 11:20:00 AM

Lab ID: 2002915-032

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 150 | 60 | | mg/Kg | 20 | 2/26/2020 5:28:28 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.0 | | mg/Kg | 1 | 2/27/2020 1:12:21 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 2/27/2020 1:12:21 AM | 50642 |
| Surr: DNOP | 101 | 55.1-146 | | %Rec | 1 | 2/27/2020 1:12:21 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 2/26/2020 11:05:10 PM | 50630 |
| Surr: BFB | 79.1 | 66.6-105 | | %Rec | 1 | 2/26/2020 11:05:10 PM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 2/26/2020 11:05:10 PM | 50630 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 11:05:10 PM | 50630 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 2/26/2020 11:05:10 PM | 50630 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 2/26/2020 11:05:10 PM | 50630 |
| Surr: 4-Bromofluorobenzene | 88.2 | 80-120 | | %Rec | 1 | 2/26/2020 11:05:10 PM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-10 3' R

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 11:25:00 AM

Lab ID: 2002915-033

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 220 | 60 | | mg/Kg | 20 | 2/26/2020 5:40:50 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 8.7 | | mg/Kg | 1 | 2/27/2020 1:35:33 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 44 | | mg/Kg | 1 | 2/27/2020 1:35:33 AM | 50642 |
| Surr: DNOP | 125 | 55.1-146 | | %Rec | 1 | 2/27/2020 1:35:33 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/27/2020 12:14:36 AM | 50630 |
| Surr: BFB | 78.3 | 66.6-105 | | %Rec | 1 | 2/27/2020 12:14:36 AM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/27/2020 12:14:36 AM | 50630 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/27/2020 12:14:36 AM | 50630 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/27/2020 12:14:36 AM | 50630 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 2/27/2020 12:14:36 AM | 50630 |
| Surr: 4-Bromofluorobenzene | 88.0 | 80-120 | | %Rec | 1 | 2/27/2020 12:14:36 AM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|----|
| * | Value exceeds Maximum Contaminant Level. | B |
| D | Sample Diluted Due to Matrix | E |
| H | Holding times for preparation or analysis exceeded | J |
| ND | Not Detected at the Reporting Limit | P |
| PQL | Practical Quantitative Limit | RL |
| S | % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 11:50:00 AM

Lab ID: 2002915-034

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 260 | 60 | | mg/Kg | 20 | 2/26/2020 6:17:52 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 140 | 9.2 | | mg/Kg | 1 | 2/27/2020 1:58:37 AM | 50642 |
| Motor Oil Range Organics (MRO) | 110 | 46 | | mg/Kg | 1 | 2/27/2020 1:58:37 AM | 50642 |
| Surr: DNOP | 115 | 55.1-146 | | %Rec | 1 | 2/27/2020 1:58:37 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 2/27/2020 12:37:46 AM | 50630 |
| Surr: BFB | 79.1 | 66.6-105 | | %Rec | 1 | 2/27/2020 12:37:46 AM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 2/27/2020 12:37:46 AM | 50630 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 2/27/2020 12:37:46 AM | 50630 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 2/27/2020 12:37:46 AM | 50630 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 2/27/2020 12:37:46 AM | 50630 |
| Surr: 4-Bromofluorobenzene | 88.9 | 80-120 | | %Rec | 1 | 2/27/2020 12:37:46 AM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order **2002915**

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11 2'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 11:55:00 AM

Lab ID: 2002915-035

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 6:30:13 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.1 | | mg/Kg | 1 | 2/27/2020 2:21:48 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 2/27/2020 2:21:48 AM | 50642 |
| Surr: DNOP | 100 | 55.1-146 | | %Rec | 1 | 2/27/2020 2:21:48 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 2/27/2020 1:00:58 AM | 50630 |
| Surr: BFB | 81.0 | 66.6-105 | | %Rec | 1 | 2/27/2020 1:00:58 AM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/27/2020 1:00:58 AM | 50630 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 2/27/2020 1:00:58 AM | 50630 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 2/27/2020 1:00:58 AM | 50630 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 2/27/2020 1:00:58 AM | 50630 |
| Surr: 4-Bromofluorobenzene | 91.7 | 80-120 | | %Rec | 1 | 2/27/2020 1:00:58 AM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11 3'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 12:00:00 PM

Lab ID: 2002915-036

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 6:42:33 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 8.9 | | mg/Kg | 1 | 2/27/2020 2:44:53 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 2/27/2020 2:44:53 AM | 50642 |
| Surr: DNOP | 101 | 55.1-146 | | %Rec | 1 | 2/27/2020 2:44:53 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/27/2020 1:24:06 AM | 50630 |
| Surr: BFB | 76.9 | 66.6-105 | | %Rec | 1 | 2/27/2020 1:24:06 AM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/27/2020 1:24:06 AM | 50630 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/27/2020 1:24:06 AM | 50630 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/27/2020 1:24:06 AM | 50630 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 2/27/2020 1:24:06 AM | 50630 |
| Surr: 4-Bromofluorobenzene | 86.6 | 80-120 | | %Rec | 1 | 2/27/2020 1:24:06 AM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11 4'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 12:05:00 PM

Lab ID: 2002915-037

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 6:54:54 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 2/27/2020 3:08:02 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 2/27/2020 3:08:02 AM | 50642 |
| Surr: DNOP | 94.3 | 55.1-146 | | %Rec | 1 | 2/27/2020 3:08:02 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/27/2020 1:47:10 AM | 50630 |
| Surr: BFB | 76.8 | 66.6-105 | | %Rec | 1 | 2/27/2020 1:47:10 AM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/27/2020 1:47:10 AM | 50630 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/27/2020 1:47:10 AM | 50630 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/27/2020 1:47:10 AM | 50630 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 2/27/2020 1:47:10 AM | 50630 |
| Surr: 4-Bromofluorobenzene | 87.0 | 80-120 | | %Rec | 1 | 2/27/2020 1:47:10 AM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-12 0-1'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 1:00:00 PM

Lab ID: 2002915-038

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 180 | 60 | | mg/Kg | 20 | 2/26/2020 7:07:14 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 110 | 8.8 | | mg/Kg | 1 | 2/27/2020 8:57:36 PM | 50642 |
| Motor Oil Range Organics (MRO) | 87 | 44 | | mg/Kg | 1 | 2/27/2020 8:57:36 PM | 50642 |
| Surr: DNOP | 111 | 55.1-146 | | %Rec | 1 | 2/27/2020 8:57:36 PM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/27/2020 2:10:15 AM | 50630 |
| Surr: BFB | 76.0 | 66.6-105 | | %Rec | 1 | 2/27/2020 2:10:15 AM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/27/2020 2:10:15 AM | 50630 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/27/2020 2:10:15 AM | 50630 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/27/2020 2:10:15 AM | 50630 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 2/27/2020 2:10:15 AM | 50630 |
| Surr: 4-Bromofluorobenzene | 85.7 | 80-120 | | %Rec | 1 | 2/27/2020 2:10:15 AM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-12 2'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 1:05:00 PM

Lab ID: 2002915-039

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 7:19:36 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.0 | | mg/Kg | 1 | 2/27/2020 3:54:15 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 2/27/2020 3:54:15 AM | 50642 |
| Surr: DNOP | 95.8 | 55.1-146 | | %Rec | 1 | 2/27/2020 3:54:15 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/27/2020 2:33:20 AM | 50630 |
| Surr: BFB | 76.8 | 66.6-105 | | %Rec | 1 | 2/27/2020 2:33:20 AM | 50630 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/27/2020 2:33:20 AM | 50630 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/27/2020 2:33:20 AM | 50630 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/27/2020 2:33:20 AM | 50630 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 2/27/2020 2:33:20 AM | 50630 |
| Surr: 4-Bromofluorobenzene | 86.0 | 80-120 | | %Rec | 1 | 2/27/2020 2:33:20 AM | 50630 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order **2002915**

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-12 3'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 1:10:00 PM

Lab ID: 2002915-040

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 7:31:58 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 2/27/2020 4:17:26 AM | 50642 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 2/27/2020 4:17:26 AM | 50642 |
| Surr: DNOP | 99.3 | 55.1-146 | | %Rec | 1 | 2/27/2020 4:17:26 AM | 50642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Surr: BFB | 79.9 | 66.6-105 | | %Rec | 1 | 2/27/2020 10:10:03 AM | 50631 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 2/27/2020 10:10:03 AM | 50631 |
| Surr: 4-Bromofluorobenzene | 88.7 | 80-120 | | %Rec | 1 | 2/27/2020 10:10:03 AM | 50631 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

| | |
|-----|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quantitative Limit |
| S | % Recovery outside of range due to dilution or matrix |

| | |
|----|---|
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

Analytical Report

Lab Order 2002915

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-12 4'

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 1:15:00 PM

Lab ID: 2002915-041

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 7:44:18 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 2/26/2020 3:38:28 PM | 50643 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 2/26/2020 3:38:28 PM | 50643 |
| Surr: DNOP | 99.6 | 55.1-146 | | %Rec | 1 | 2/26/2020 3:38:28 PM | 50643 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 2/27/2020 11:20:33 AM | 50631 |
| Surr: BFB | 82.4 | 66.6-105 | | %Rec | 1 | 2/27/2020 11:20:33 AM | 50631 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/27/2020 11:20:33 AM | 50631 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 2/27/2020 11:20:33 AM | 50631 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 2/27/2020 11:20:33 AM | 50631 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 2/27/2020 11:20:33 AM | 50631 |
| Surr: 4-Bromofluorobenzene | 91.8 | 80-120 | | %Rec | 1 | 2/27/2020 11:20:33 AM | 50631 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order **2002915**

Date Reported: 3/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG

Project: Arcturus 18 FED 2H

Collection Date: 2/19/2020 1:45:00 PM

Lab ID: 2002915-042

Matrix: SOIL

Received Date: 2/22/2020 9:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/26/2020 7:56:39 PM | 50702 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 2/26/2020 4:00:38 PM | 50643 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 2/26/2020 4:00:38 PM | 50643 |
| Surr: DNOP | 141 | 55.1-146 | | %Rec | 1 | 2/26/2020 4:00:38 PM | 50643 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/27/2020 12:31:05 PM | 50631 |
| Surr: BFB | 80.1 | 66.6-105 | | %Rec | 1 | 2/27/2020 12:31:05 PM | 50631 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/27/2020 12:31:05 PM | 50631 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 2/27/2020 12:31:05 PM | 50631 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 2/27/2020 12:31:05 PM | 50631 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/27/2020 12:31:05 PM | 50631 |
| Surr: 4-Bromofluorobenzene | 88.7 | 80-120 | | %Rec | 1 | 2/27/2020 12:31:05 PM | 50631 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: MB-50663 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50663 | RunNo: 66788 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/25/2020 | SeqNo: 2297154 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-50663 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50663 | RunNo: 66788 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/25/2020 | SeqNo: 2297155 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.2 | 90 | 110 | | | |

| Sample ID: MB-50687 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50687 | RunNo: 66815 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/26/2020 | SeqNo: 2298438 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-50687 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50687 | RunNo: 66815 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/26/2020 | SeqNo: 2298439 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.9 | 90 | 110 | | | |

| Sample ID: 2002915-014AMS | SampType: ms | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-5 2' | Batch ID: 50687 | RunNo: 66815 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/26/2020 | SeqNo: 2298443 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 91 | 60 | 30.00 | 65.04 | 87.4 | 50.4 | 161 | | | |

| Sample ID: 2002915-014AMSD | SampType: msd | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: S-5 2' | Batch ID: 50687 | RunNo: 66815 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/26/2020 | SeqNo: 2298444 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 91 | 61 | 30.00 | 65.04 | 86.3 | 50.4 | 161 | 0.361 | 20 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: MB-50702 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50702 | RunNo: 66815 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/26/2020 | SeqNo: 2298468 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-50702 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50702 | RunNo: 66815 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/26/2020 | SeqNo: 2298469 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.8 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: LCS-50681 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50681 | RunNo: 66803 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297105 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.5 | | 5.000 | | 90.3 | 55.1 | 146 | | | |

| Sample ID: MB-50681 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50681 | RunNo: 66803 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297106 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.9 | | 10.00 | | 99.1 | 55.1 | 146 | | | |

| Sample ID: MB-50641 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50641 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297210 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 13 | | 10.00 | | 129 | 55.1 | 146 | | | |

| Sample ID: LCS-50641 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50641 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297211 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 58 | 10 | 50.00 | 0 | 116 | 70 | 130 | | | |
| Surr: DNOP | 6.0 | | 5.000 | | 120 | 55.1 | 146 | | | |

| Sample ID: LCS-50643 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50643 | RunNo: 66803 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297433 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 55 | 10 | 50.00 | 0 | 110 | 70 | 130 | | | |
| Surr: DNOP | 5.3 | | 5.000 | | 106 | 55.1 | 146 | | | |

| Sample ID: MB-50643 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50643 | RunNo: 66803 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297434 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: MB-50643 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50643 | RunNo: 66803 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297434 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 120 | 55.1 | 146 | | | |

| Sample ID: 2002915-001AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-1 0-1' | Batch ID: 50641 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297592 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 62 | 9.4 | 46.86 | 0 | 132 | 47.4 | 136 | | | |
| Surr: DNOP | 6.9 | | 4.686 | | 147 | 55.1 | 146 | | | S |

| Sample ID: 2002915-001AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-1 0-1' | Batch ID: 50641 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297593 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 54 | 9.6 | 47.98 | 0 | 112 | 47.4 | 136 | 14.7 | 43.4 | |
| Surr: DNOP | 5.6 | | 4.798 | | 117 | 55.1 | 146 | 0 | 0 | |

| Sample ID: 2002915-021AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-7 2' | Batch ID: 50642 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2299249 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 | 9.5 | 47.39 | 0 | 93.9 | 47.4 | 136 | | | |
| Surr: DNOP | 4.5 | | 4.739 | | 95.1 | 55.1 | 146 | | | |

| Sample ID: 2002915-021AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-7 2' | Batch ID: 50642 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2299250 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 41 | 8.8 | 44.13 | 0 | 93.5 | 47.4 | 136 | 7.55 | 43.4 | |
| Surr: DNOP | 4.2 | | 4.413 | | 95.1 | 55.1 | 146 | 0 | 0 | |

| Sample ID: MB-50642 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50642 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2299275 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: MB-50642 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50642 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2299275 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|--------------------------------|----|----|-------|--|-----|------|-----|--|--|--|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 11 | | 10.00 | | 113 | 55.1 | 146 | | | |

| Sample ID: LCS-50642 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50642 | RunNo: 66801 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2299276 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-----------------------------|-----|----|-------|---|-----|------|-----|--|--|--|
| Diesel Range Organics (DRO) | 53 | 10 | 50.00 | 0 | 106 | 70 | 130 | | | |
| Surr: DNOP | 5.4 | | 5.000 | | 109 | 55.1 | 146 | | | |

| Sample ID: LCS-50685 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50685 | RunNo: 66879 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299849 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------|-----|--|-------|--|-----|------|-----|--|--|--|
| Surr: DNOP | 5.1 | | 5.000 | | 101 | 55.1 | 146 | | | |
|------------|-----|--|-------|--|-----|------|-----|--|--|--|

| Sample ID: MB-50685 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50685 | RunNo: 66879 | | | | | | | | |
| Prep Date: 2/26/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299850 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------|----|--|-------|--|-----|------|-----|--|--|--|
| Surr: DNOP | 11 | | 10.00 | | 115 | 55.1 | 146 | | | |
|------------|----|--|-------|--|-----|------|-----|--|--|--|

| Sample ID: MB-50766 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50766 | RunNo: 66883 | | | | | | | | |
| Prep Date: 2/28/2020 | Analysis Date: 2/28/2020 | SeqNo: 2302390 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------|-----|--|-------|--|------|------|-----|--|--|--|
| Surr: DNOP | 8.7 | | 10.00 | | 86.6 | 55.1 | 146 | | | |
|------------|-----|--|-------|--|------|------|-----|--|--|--|

| Sample ID: LCS-50766 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50766 | RunNo: 66883 | | | | | | | | |
| Prep Date: 2/28/2020 | Analysis Date: 2/28/2020 | SeqNo: 2302393 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------|-----|--|-------|--|------|------|-----|--|--|--|
| Surr: DNOP | 4.2 | | 5.000 | | 85.0 | 55.1 | 146 | | | |
|------------|-----|--|-------|--|------|------|-----|--|--|--|

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: mb-50628 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50628 | RunNo: 66771 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/25/2020 | SeqNo: 2296862 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 850 | | 1000 | | 85.0 | 66.6 | 105 | | | |

| Sample ID: lcs-50628 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50628 | RunNo: 66771 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/25/2020 | SeqNo: 2296863 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26 | 5.0 | 25.00 | 0 | 104 | 80 | 120 | | | |
| Surr: BFB | 960 | | 1000 | | 96.2 | 66.6 | 105 | | | |

| Sample ID: MB-50657 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50657 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297867 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 850 | | 1000 | | 85.2 | 66.6 | 105 | | | |

| Sample ID: lcs-50657 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50657 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297868 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 910 | | 1000 | | 91.2 | 66.6 | 105 | | | |

| Sample ID: mb-50630 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297873 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 820 | | 1000 | | 81.6 | 66.6 | 105 | | | |

| Sample ID: lcs-50630 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297874 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23 | 5.0 | 25.00 | 0 | 93.6 | 80 | 120 | | | |
| Surr: BFB | 920 | | 1000 | | 91.9 | 66.6 | 105 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: 2002915-020ams | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-7 0-1' | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297876 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.6 | 22.98 | 0 | 93.6 | 69.1 | 142 | | | |
| Surr: BFB | 830 | | 919.1 | | 89.8 | 66.6 | 105 | | | |

| Sample ID: 2002915-020amsd | SampType: MSD | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|---------|----------|------|
| Client ID: S-7 0-1' | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297877 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.8 | 23.99 | 0 | 89.6 | 69.1 | 142 | 0.00484 | 20 | |
| Surr: BFB | 860 | | 959.7 | | 89.2 | 66.6 | 105 | 0 | 0 | |

| Sample ID: mb-50631 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299731 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 820 | | 1000 | | 82.5 | 66.6 | 105 | | | |

| Sample ID: lcs-50631 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299732 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 87.6 | 80 | 120 | | | |
| Surr: BFB | 940 | | 1000 | | 93.9 | 66.6 | 105 | | | |

| Sample ID: 2002915-040ams | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-12 3' | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299734 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.7 | 23.70 | 0 | 88.0 | 69.1 | 142 | | | |
| Surr: BFB | 850 | | 947.9 | | 89.5 | 66.6 | 105 | | | |

| Sample ID: 2002915-040amsd | SampType: MSD | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-12 3' | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299735 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: 2002915-040amsd | SampType: MSD | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: S-12 3' | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299735 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.6 | 23.21 | 0 | 90.7 | 69.1 | 142 | 0.891 | 20 | |
| Surr: BFB | 830 | | 928.5 | | 89.5 | 66.6 | 105 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: mb-50628 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50628 | RunNo: 66771 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/25/2020 | SeqNo: 2296910 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 1.000 | | 93.7 | 80 | 120 | | | |

| Sample ID: LCS-50628 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50628 | RunNo: 66771 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/25/2020 | SeqNo: 2296911 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.025 | 1.000 | 0 | 93.3 | 80 | 120 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 97.4 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 100 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.1 | 80 | 120 | | | |

| Sample ID: 2002915-001ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-1 0-1' | Batch ID: 50628 | RunNo: 66771 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/25/2020 | SeqNo: 2296914 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.024 | 0.9443 | 0 | 98.1 | 78.5 | 119 | | | |
| Toluene | 0.98 | 0.047 | 0.9443 | 0.01451 | 102 | 75.7 | 123 | | | |
| Ethylbenzene | 1.0 | 0.047 | 0.9443 | 0 | 107 | 74.3 | 126 | | | |
| Xylenes, Total | 3.0 | 0.094 | 2.833 | 0.02231 | 107 | 72.9 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 0.9443 | | 92.2 | 80 | 120 | | | |

| Sample ID: 2002915-001amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-1 0-1' | Batch ID: 50628 | RunNo: 66771 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/25/2020 | SeqNo: 2296915 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.99 | 0.024 | 0.9785 | 0 | 101 | 78.5 | 119 | 6.22 | 20 | |
| Toluene | 1.0 | 0.049 | 0.9785 | 0.01451 | 106 | 75.7 | 123 | 6.93 | 20 | |
| Ethylbenzene | 1.1 | 0.049 | 0.9785 | 0 | 110 | 74.3 | 126 | 5.89 | 20 | |
| Xylenes, Total | 3.3 | 0.098 | 2.935 | 0.02231 | 110 | 72.9 | 130 | 6.94 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 0.9785 | | 91.6 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: MB-50657 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50657 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297906 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.2 | 80 | 120 | | | |

| Sample ID: LCS-50657 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50657 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/25/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297907 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 116 | 80 | 120 | | | |

| Sample ID: mb-50630 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297912 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 1.000 | | 90.2 | 80 | 120 | | | |

| Sample ID: LCS-50630 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297913 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.025 | 1.000 | 0 | 88.9 | 80 | 120 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 93.7 | 80 | 120 | | | |
| Ethylbenzene | 0.96 | 0.050 | 1.000 | 0 | 96.2 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 97.6 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.91 | | 1.000 | | 91.0 | 80 | 120 | | | |

| Sample ID: 2002915-021ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-7 2' | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297916 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.88 | 0.025 | 0.9862 | 0 | 89.3 | 78.5 | 119 | | | |
| Toluene | 0.92 | 0.049 | 0.9862 | 0.01417 | 91.6 | 75.7 | 123 | | | |
| Ethylbenzene | 0.94 | 0.049 | 0.9862 | 0 | 95.4 | 74.3 | 126 | | | |
| Xylenes, Total | 2.9 | 0.099 | 2.959 | 0.02220 | 96.3 | 72.9 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: 2002915-021ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|--------------------------|---------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-7 2' | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297916 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.92 | | 0.9862 | | 92.8 | 80 | 120 | | | |

| Sample ID: 2002915-021amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|--------------------------|---------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-7 2' | Batch ID: 50630 | RunNo: 66806 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/26/2020 | SeqNo: 2297917 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.025 | 0.9901 | 0 | 90.0 | 78.5 | 119 | 1.13 | 20 | |
| Toluene | 0.93 | 0.050 | 0.9901 | 0.01417 | 92.4 | 75.7 | 123 | 1.34 | 20 | |
| Ethylbenzene | 0.97 | 0.050 | 0.9901 | 0 | 97.9 | 74.3 | 126 | 2.94 | 20 | |
| Xylenes, Total | 2.9 | 0.099 | 2.970 | 0.02220 | 98.2 | 72.9 | 130 | 2.32 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.91 | | 0.9901 | | 91.7 | 80 | 120 | 0 | 0 | |

| Sample ID: mb-50631 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|--------------------------|---------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299780 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.89 | | 1.000 | | 89.2 | 80 | 120 | | | |

| Sample ID: LCS-50631 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|--------------------------|---------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299781 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.025 | 1.000 | 0 | 88.6 | 80 | 120 | | | |
| Toluene | 0.93 | 0.050 | 1.000 | 0 | 93.0 | 80 | 120 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 94.8 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.5 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 1.000 | | 93.1 | 80 | 120 | | | |

| Sample ID: 2002915-041ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|---------------------------|--------------------------|---------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-12 4' | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299784 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002915

02-Mar-20

Client: Talon Artesia
Project: Arcturus 18 FED 2H

| Sample ID: 2002915-041ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-12 4' | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299784 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.84 | 0.024 | 0.9452 | 0.01815 | 86.6 | 78.5 | 119 | | | |
| Toluene | 0.89 | 0.047 | 0.9452 | 0.01654 | 92.8 | 75.7 | 123 | | | |
| Ethylbenzene | 0.92 | 0.047 | 0.9452 | 0 | 97.4 | 74.3 | 126 | | | |
| Xylenes, Total | 2.8 | 0.095 | 2.836 | 0.02174 | 98.8 | 72.9 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.89 | | 0.9452 | | 94.6 | 80 | 120 | | | |

| Sample ID: 2002915-041amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-12 4' | Batch ID: 50631 | RunNo: 66878 | | | | | | | | |
| Prep Date: 2/24/2020 | Analysis Date: 2/27/2020 | SeqNo: 2299785 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.78 | 0.023 | 0.9302 | 0.01815 | 82.3 | 78.5 | 119 | 6.50 | 20 | |
| Toluene | 0.85 | 0.047 | 0.9302 | 0.01654 | 89.3 | 75.7 | 123 | 5.36 | 20 | |
| Ethylbenzene | 0.88 | 0.047 | 0.9302 | 0 | 94.2 | 74.3 | 126 | 4.93 | 20 | |
| Xylenes, Total | 2.7 | 0.093 | 2.791 | 0.02174 | 95.3 | 72.9 | 130 | 5.12 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.85 | | 0.9302 | | 91.7 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **TALON ARTESIA** Work Order Number: **2002915** RcptNo: 1

Received By: **Yazmine Garduno** 2/22/2020 9:05:00 AM *Yazmine Garduno*
Completed By: **Isaiah Ortiz** *I-Ox*
Reviewed By: *JP 2/24/20*

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes No Not Present
- 2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 5. Sample(s) in proper container(s)? Yes No
- 6. Sufficient sample volume for Indicated test(s)? Yes No
- 7. Are samples (except VOA and ONG) properly preserved? Yes No
- 8. Was preservative added to bottles? Yes No NA
- 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
- 10. Were any sample containers received broken? Yes No
- 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 12. Are matrices correctly identified on Chain of Custody? Yes No
- 13. Is it clear what analyses were requested? Yes No
- 14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *YB 2/24/20*

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 5.2 | Good | | | | |

Chain-of-Custody Record

Client: **TALON UPE**

Mailing Address: **408 W. TEXAS AVE**

Phone #: **575-746-8768**

email or Fax#: _____

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: Az Compliance Other

NELAC Other

EDD (Type) _____

Turn-Around Time: _____

Standard Rush

Project Name: **ACTURUS 18 FED 2H**

Project #: **700794.303.01**

Project Manager: **CHRIS JONES**

Sampler: **MICHAEL COLLIER**

On Ice: Yes No

of Coolers: **2** | **52101-S-2**

Cooler Temp (including CF): **2.6-0-2.6**

Container Type and # **GLASS 1 ICE COLD**

Preservative Type **ICE COLD**

HEAL No. **7002915**

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|---------|--------|--------|-------------|----------------------|-------------------|----------|
| 2-19-20 | 8:00am | SOIL | S-1 0-1' | GLASS 1 | ICE COLD | -001 |
| | 8:05am | | S-1 2'R | | | -002 |
| | 8:15am | | S-2 0-1' | | | -003 |
| | 8:20am | | S-2 2' | | | -004 |
| | 8:25am | | S-2 3' | | | -005 |
| | 8:35am | | S-3 0-1' | | | -006 |
| | 8:40am | | S-3 2' | | | -007 |
| | 8:45am | | S-3 3'R | | | -008 |
| | 8:55am | | S-4 0-1' | | | -009 |
| | 9:05am | | S-4 2' | | | -010 |
| | 9:10am | | S-4 3' | | | -011 |
| 2-19-20 | 9:15am | SOIL | S-4 4' | GLASS | ICE COLD | -012 |

Date: **2/20/20** Time: **1500**

Relinquished by: **MH Coll.**

Date: **2/21/20** Time: **8:00**

Relinquished by: **Chris Jones**

Date: **2/22/20** Time: **0905**

Relinquished by: **Chris Jones**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | BTEX / MTBE / TMB's (8021) |
| <input checked="" type="checkbox"/> | TPH:8015D(GRO / DRO / MRO) |
| <input type="checkbox"/> | 8081 Pesticides/8082 PCB's |
| <input type="checkbox"/> | EDB (Method 504.1) |
| <input type="checkbox"/> | PAHs by 8310 or 8270SIMS |
| <input type="checkbox"/> | RCRA 8 Metals |
| <input type="checkbox"/> | Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ |
| <input type="checkbox"/> | 8260 (VOA) |
| <input type="checkbox"/> | 8270 (Semi-VOA) |
| <input type="checkbox"/> | Total Coliform (Present/Absent) |
| <input checked="" type="checkbox"/> | Total Chlorides |

Remarks: **Pg. 10F4**

If necessary, samples submitted to Hall Environmental may be sub-contracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: **TALON LPE**
 Turn-Around Time: Standard Rush
 Project Name: **ACTIVALS 18 FEB 2H**

Mailing Address: **408 W. TEXAS AVE**
 Project #: **700794.303.01**
 Phone #: **515-746-8768**
 email or Fax#: **700794.303.01**

QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 Project Manager: **CHRIS JONES**
 Sampler: **MICHAEL COWLER**
 On Ice: Yes No
 # of Coolers: **2** **S-110** **S-1**
 Cooler Temp (including CP): **26.0** **26.1** **16.2** **16.2**

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|---------|---------|--------|-------------|----------------------|-------------------|----------|
| 2-19-20 | 9:15am | Soil | S-5 0-1' | GLASS 1 | ICE/COLD | 2007915 |
| | 9:30am | | S-5 2' | | | -013 |
| | 9:35am | | S-5 3' | | | -014 |
| | 9:40am | | S-5 4' | | | -015 |
| | 9:50am | | S-6 0-1' | | | -016 |
| | 9:55am | | S-6 2' | | | -017 |
| | 10:00am | | S-6 3'R | | | -018 |
| | 10:10am | | S-7 0-1' | | | -019 |
| | 10:15am | | S-7 2' | | | -020 |
| | 10:20am | | S-7 3' | | | -021 |
| | 10:25am | | S-7 4' | | | -022 |
| 2-19-20 | 10:35 | Soil | S-8 0-1' | GLASS 1 | ICE/COLD | -023 |
| | | | | | | -024 |

Received by: **[Signature]** Date: **2/20/20** Time: **1500**
 Relinquished by: **M.P. Bell**
 Received by: **[Signature]** Date: **2/22/20** Time: **0900**
 Relinquished by: **[Signature]**
 Remarks: **Pg. 2 of 4**



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | BTEX / MTBE / TMB's (8021) |
| <input checked="" type="checkbox"/> | TPH:8015D(GRO / DRO / MRO) |
| <input type="checkbox"/> | 8081 Pesticides/8082 PCB's |
| <input type="checkbox"/> | EDB (Method 504.1) |
| <input type="checkbox"/> | PAHs by 8310 or 8270SIMS |
| <input type="checkbox"/> | RCRA 8 Metals |
| <input type="checkbox"/> | Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ |
| <input type="checkbox"/> | 8260 (VOA) |
| <input type="checkbox"/> | 8270 (Semi-VOA) |
| <input type="checkbox"/> | Total Coliform (Present/Absent) |
| <input checked="" type="checkbox"/> | TOTAL CHLORIDES |

If necessary, samples submitted to Hall Environmental may be auto-completed to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: TALON CFE
 Turn-Around Time: Standard Rush
 Project Name: ARCTURUS 1B FED 2H
 Project #: 700744.303.01
 Project Manager: CHRIS JONES
 Sampler: MICHAEL COLLIER
 On Ice: Yes No
 # of Coolers: 2 5.2 W 5.2 10
 Cooler Temp (including CF): 2.6-0-2.6 3.1 W
 Container Type and # GLASS 1
 Preservative Type ICE COLD
 HEAL No. 2007915



4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

www.hallenvironmental.com

Analysis Request

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) | TOTAL CHLORIDES |
|---------|---------|--------|-------------|----------------------|-------------------|----------|----------------------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|--|------------|-----------------|---------------------------------|-----------------|
| 2-19-20 | 10:40am | SOIL | S-8 2' | GLASS 1 | ICE COLD | 2007915 | ✓ | ✓ | | | | | | | | | ✓ |
| | 10:45am | | S-8 3' | | | | | | | | | | | | | | |
| | 10:50am | | S-8 4' | | | | | | | | | | | | | | |
| | 10:55am | | S-9 0-1' | | | | | | | | | | | | | | |
| | 11:00am | | S-9 2' | | | | | | | | | | | | | | |
| | 11:05am | | S-9 3' R | | | | | | | | | | | | | | |
| | 11:15am | | S-10 0-1' | | | | | | | | | | | | | | |
| | 11:20am | | S-10 2' | | | | | | | | | | | | | | |
| | 11:25am | | S-10 3' R | | | | | | | | | | | | | | |
| | 11:50am | | S-11 0-1' | | | | | | | | | | | | | | |
| | 11:55am | | S-11 2' | | | | | | | | | | | | | | |
| 2-19-20 | 12:00pm | SOIL | S-11 3' | GLASS 1 | ICE COLD | 2007915 | ✓ | ✓ | | | | | | | | | ✓ |

Remarks:

Pg. 30F4

Received by: [Signature] Date: 2/20/20 1500

Received by: [Signature] Date: 2/22/20 0905

Via: same Date: 2/22/20 0905

Via: same Date: 2/22/20 0905

If necessary, samples submitted to Hall Environmental may be sub-contracted to other accredited laboratories. This service as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: **TALON LLC**

Mailing Address: **408 W. TEXAS AVE**

Phone #: **515-746-8768**

email or Fax#: _____

QA/QC Package: Level 4 (Full Validation)

Standard Az Compliance

NELAC Other

EDD (Type) _____

Turn-Around Time: Standard Rush

Project Name: **ACTUARY 18 FEB 2H**

Project #: _____

Project Manager: **CHRIS JONES**

Sampler: **MICHAEL COLLIER**

On Ice: Yes No

of Coolers: **2** (1) = **SL**

Cooler Temp (including CP): **7.6 - 0 = 2.6**

Container Type and # **GLASS 1**

Preservative Type **ICE CORE**

HEAL No. **ZOOZ915**

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) | TOTAL CHLORIDES |
|---------|---------|--------|-------------|----------------------|-------------------|----------|----------------------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|--|------------|-----------------|---------------------------------|-----------------|
| 2-19-20 | 12:05pm | SOIL | S-11 4' | GLASS 1 | ICE CORE | ZOOZ915 | ✓ | ✓ | | | | | | | | | ✓ |
| | 1:00pm | | S-12 0-1' | | | | | | | | | | | | | | |
| | 1:05pm | | S-12 2' | | | | | | | | | | | | | | |
| | 1:10pm | | S-12 3' | | | | | | | | | | | | | | |
| | 1:15pm | | S-12 4' | | | | | | | | | | | | | | |
| 2-19-20 | 1:45pm | SOIL | B6 | GLASS 1 | ICE CORE | | ✓ | ✓ | | | | | | | | | ✓ |

Date: **2/20/20** Time: **1500** Relinquished by: *[Signature]* Via: **2/20/20 1500** Remarks: **PG. 4 of 4**

Date: **2/20/20** Time: **1900** Relinquished by: *[Signature]* Via: **via collier 2/21/20 5:00**

Date: **2/20/20** Time: **1900** Relinquished by: *[Signature]* Via: **via collier 2/21/20 5:00**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

March 24, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ARCTURUS 18 FED 2H

Enclosed are the results of analyses for samples received by the laboratory on 03/23/20 14:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|----------------|
| Received: | 03/23/2020 | Sampling Date: | 03/20/2020 |
| Reported: | 03/24/2020 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 2H | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.303.01 | Sample Received By: | Kelly Jacobson |
| Project Location: | DEVON - EDDY CO NM | | |

Sample ID: S-6A 1' COMP (H000879-01)

| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
|-------------------------------|------------|-----------------|-----------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/23/2020 | ND | 196 | 98.1 | 200 | 0.552 | |
| DRO >C10-C28* | 530 | 10.0 | 03/23/2020 | ND | 198 | 98.9 | 200 | 0.616 | |
| EXT DRO >C28-C36 | 370 | 10.0 | 03/23/2020 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 87.6 % | 44.3-144 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 77.6 % | 42.2-156 | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500C-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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 1625 N. French Dr., Hobbs, NM 88240
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 811 S. First St., Artesia, NM 88210
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District III
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 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 197558

CONDITIONS

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 197558 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--------------------------|----------------|
| jnobui | Closure Report Approved. | 3/22/2023 |